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Audio Visual Industry

TECH BIBLE

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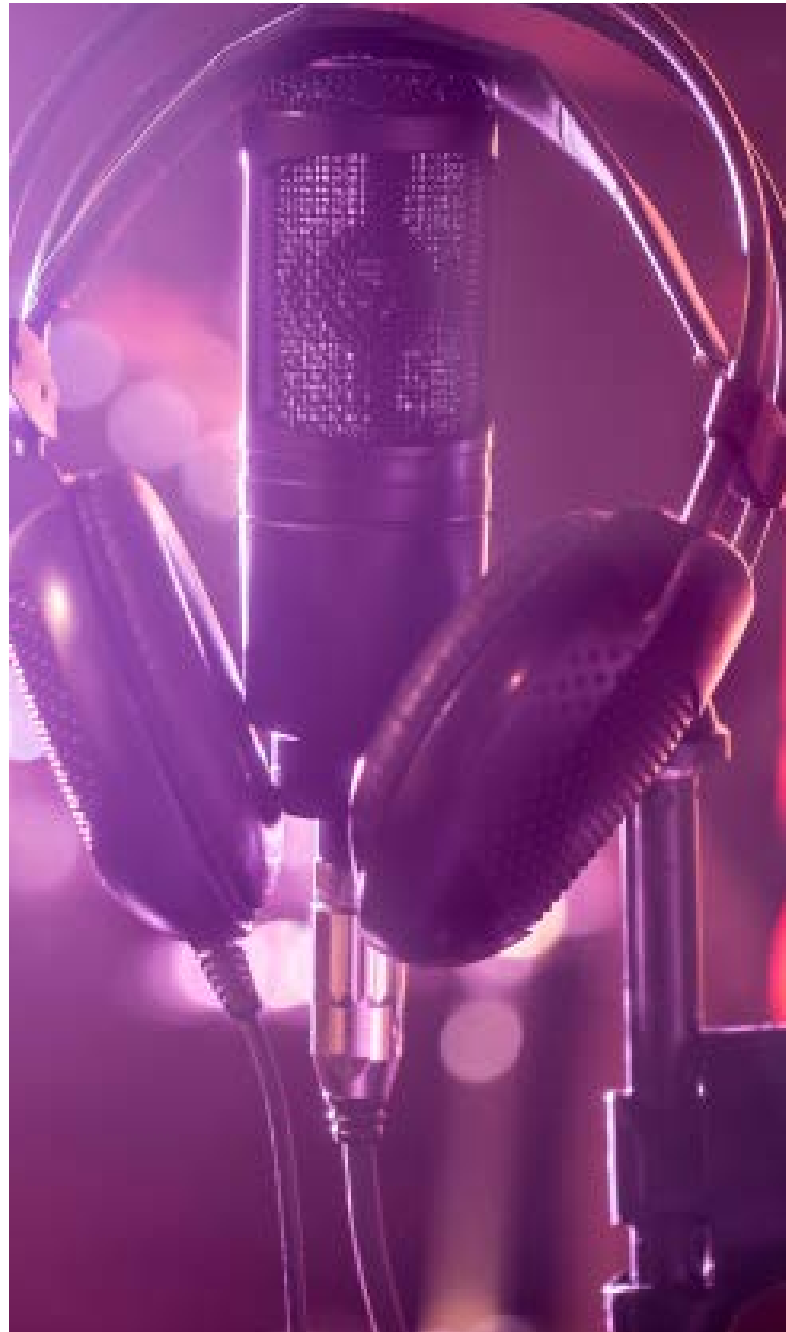
The Definitive Guide
to All Things AV

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WORDS FROM THE EDITOR



TIM ALBRIGHT
FOUNDER, AVNATION


Welcome to the second edition of the AVNation AV Tech Bible. We have compiled the latest products and articles from the amazing companies and people throughout our industry. The AV Tech Bible consists of over 30 categories along with introductions on the state of each of those categories.

It's no secret, AV technology continues to change. If you don't like a certain aspect wait a year or so. Ten years ago, it was a no-no to put microphones in the ceiling. Now one of the most popular conferencing mics happen to be installed in the ceiling, or the wall in front of you. There was a time when creating a centralized control system was a huge feat. Today several companies have server and network-level automation systems that pull together several systems. The world of audiovisual technology has incorporated aspects of the IT industry. So much that several would argue that AV is a part of IT, or AV is IT. CTOs and CIOs are increasingly in charge of the budgets that pay for our work and technology. If your pay comes from IT does that mean you are part of that department? What about facilities, security, or classroom technology departments?

Finally, this work is a combination of both commercial and residential AV. We debated back and forth on this aspect. There are increasingly residential dealers who find themselves installing conference rooms, distributed video and audio in offices, and taking care of clients' businesses. Commercial firms are installing work-from-home systems that their residential counterparts didn't know existed a year ago. Both in the US as well as in EU, APAC, and other parts of the globe, our homes and offices are sharing the technology that allows us to connect to one another.

Regardless of where you live in the AV space, where you live in the world, we are all in this exciting and intoxicating industry. Take a look around the AVNation AV Tech Bible. Let us know what you think, what we're missing, how you'd do it differently, and what you like. And keep learning. This is our industry. Let's make the most of it.

Tim Albright

A photograph of several microphones on a stage, with a bright light source creating a lens flare effect. The microphones are in the foreground, and the background is blurred, showing a crowd of people.

STATE OF THE AV INDUSTRY

After a tumultuous 2020, recovery is underway for the pro AV industry. Challenges will need to be carefully navigated, but the industry is indeed on much brighter path. Let's take a look at how the pro AV industry fared in 2020 and the current lay of the land.

After peaking at \$259 billion in 2019, the pro AV industry revenue dropped to \$214 billion globally in 2020, according to the AVIXA's 2021 AV Industry Outlook and Trends Analysis (IOTA). IOTA forecasts revenue will reach \$232 billion in 2021 and grow to \$329 billion in 2026, representing a 7.2% compound annual growth rate (CAGR).

Live events and performance/entertainment solutions were the most impacted in 2020, with a combined annual revenue decline of 49.7%. These solutions face the longest recovery to pre-pandemic levels due to the magnitude of their pandemic losses, continuing restrictions, and individual reluctance to join larger events and crowds. However, both solution areas will bounce back substantially, setting new records over the next couple of years. By 2026, live events solutions will generate \$33.9 billion in revenue and performance/entertainment \$30.6 billion.

Across all solution areas, conferencing and collaboration generated the highest revenue as workers went remote, students participated in distance learning, and events went virtual. The solution is forecast to generate \$43.5 billion in 2021 and reach \$49.9 billion in 2026.

While the pathway to recovery isn't as straightforward as one would like, pro AV companies who are equipped with solid insight and a proactive approach will see prosperous days ahead.

Digital signage is poised for strong revenue growth, with a forecast of \$32 billion in 2021, increasing to \$44.7 billion in 2026. The signage market had strength going into the pandemic, as display prices encouraged proliferation. While the pandemic disrupted growth, the fundamental value of signage will continue to propel the solution area. Media servers are the leading product category for digital signage—with \$6.9 billion in revenue in 2021.

Overall, content management hardware, previously labeled as streaming media, storage, and distribution (SMSD), generates significant revenue and growth over the next five years – \$62.3 billion in 2021 with a CAGR of 10.4%.

How AV Providers Can Adapt

Many AV markets were hit hard in 2020, such as transportation, hospitality, and venues and events. As we return to normal life, the difficulties of 2020

and early 2021 will continue to linger. What do AV providers need to know to serve the complex needs

Two lingering challenges for AV end users are reduced financial reserves and scale. After a year of lost revenue, a lot of potential buyers have limited cash on hand, which constrains their ability to make big investments. AV providers can help in a couple of ways. First, seek to reduce upfront costs. A managed services contract that turns an upfront capital expenditure to an operations expenditure over time will be much more affordable to a cash-strapped buyer. Second, consider how you can deliver an immediate return to your client. A financially strained company can't wait for an investment to mature – even if the return is a sure thing. Scale will be another one of the hardest challenges for companies this year. Buyers in spaces like hospitality and venues and events will need solutions that work across a wide range of capacities from a fraction of their pre-pandemic levels to full capacity. Offering easy flexibility will help your clients and your bottom line.

The Reality of Supply Issues

Supply difficulties might be the biggest problem facing the pro AV industry, and there are a lot of misconceptions out there about what's going on and how companies should respond. Commonly, we hear that supply problems are linked heavily to the chip shortage, but data from AVIXA's third quarter Macroeconomic Trends Analysis shows that's a bit of a red herring. Instead, spiking demand, continuing COVID-19, and uncertainty are more important

causes, and focusing on them will enable you to identify problems sooner and develop better solutions from the beginning.

It's easy to get caught up in anecdotes about certain products with major backlogs or price changes, but it's important to keep in mind that for many goods, prices, and availability quietly remain constant. AVIXA's data speaks to the balance between these stories, showing that pro AV prices increased 5.4% during a period when U.S. inflation was 3.8%. In other words, pro AV is experiencing more significant issues than the wider economy, but ones that are still in the moderate and manageable range.

How are companies responding to the supply issues? It wasn't surprising to see that passing price increases along was common, but what was surprising was how often respondents identified this response as most effective. The smartest companies are using multiple tailored approaches for their specific supply conditions; for example, working with multiple suppliers where redundancy has value and buying in bulk from a single supplier when being a big, priority purchaser is best.

Fortunately, we're seeing our way out of the poor economic conditions brought on by the pandemic. While the pathway to recovery isn't as straightforward as one would like, pro AV companies who are equipped with solid insight and a proactive approach will see prosperous days ahead.

[To learn more about AVIXA's market research reports, visit www.avixa.org/marketintel.](http://www.avixa.org/marketintel)





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WHEN THE SUPPLY CHAIN BREAKS



BRADFORD BENN
FOUNDER OF ADIVIST

As the world moves into 2022, product availability continues to be a constraint many are working through but there are things that can be done to reduce the number of challenges caused by the supply chain. The following are suggestions based on my experiences working for a manufacturer trying to alleviate challenges and as an end-user and consultant reacting to them.

A consistent thread in these suggestions is open communication and collaborative relationships. As manufacturers and distributors, it is important to remember that you only succeed if your customers do. As the customer, integrator, or consultant, the same applies to you, however, it is a dual direction.

The first step is talking with your suppliers and partners about what is in your pipeline so they can plan accordingly. People would not walk into a bakery and expect to purchase 300 cookies without advance notice. Expecting a vendor to have 300 amplifiers of the same model ready to ship is much the same. Providing the manufacturer with notice, they can often make multiple amplifiers quickly. This does not mean telling them a week before, it means as far ahead as possible.

This might seem risky as the design isn't complete yet, so how does one determine the quantities of each model? With proper communication, your suppliers can typically work with you. When I was working for a manufacturer,

there was a component that had a 22-week lead time. I reached out to existing projects using that product to get an idea of quantities, schedule, and likelihood of purchases. Based on that information we were able to predict accordingly and meet all needs on time. As the manufacturer, I had a strong enough relationship with the customer that I could order parts confidently before the purchase orders came in.

Do not be surprised if suppliers ask for purchase orders to hold your place in line for the product. This assurance that the items will be purchased impacts forecasting. Purchasers often work with multiple suppliers for long-lead items to see who has the item first. If the item comes into all the suppliers at the same time, orders get canceled and stock levels do not meet projections. Requiring a purchase order lowers this risk for suppliers. Typically, through staying in communication, one can cancel the purchase order before the product ships.

When working with suppliers, distributors, or manufacturers, it is important to ensure that communication is a coordinated effort. This seems like a given, but confusion happens more than one would think. When there are problems with delivery schedules,





often the inside salesperson will tell purchasing, who then tells the specifier. Before the specifier reaches out to someone else within the supplier, they must coordinate with the person requesting the product. Say that five units are needed for a project but due to an error in communication, two people are both trying to place that order. The supplier is now trying to find ten units when only five are necessary. Clarifying who will make contact with the vendor at the beginning would prevent this issue.

Something often missed is designing for need instead of by model. Often people will say, "I need an eight-inch ceiling speaker." Seems descriptive enough, right? In actuality, it is as descriptive as the word "blue". Here are just a few eight-inch ceiling speaker options:

- Bogen CS1EZ is a pre-assembled 1-watt singletap ceiling speaker.
- Polk Audio MC80 frequency response 50-20,000 Hz (-3dB), handles up to 100 watts at 8-ohm impedance.
- AtlasIED SD72WV is a 25-watt speaker with a frequency response range of 45Hz-19kHz (nominal) and includes factory installed 25/70.7V line matching transformer with tap selections ranging from .25 to 5 watts.
- AtlasIED C803AT87, a 16-watt speaker with a factory-installed 70.7V 8W line matching transformer. This speaker features a 70Hz - 15.5kHz frequency.
- JBL Pro 8128 8-inch, Full-range, In-Ceiling Loudspeaker 50 Hz – 16 kHz with 6W transformer for use on 70V/100V distributed speaker lines (Non-Plenum Rated).
- JBL Pro 8128 8-inch, Full-range, In-Ceiling Loudspeaker 50 Hz – 16 kHz 6W transformer for use on 70V/100V distributed speaker lines (Plenum Rated).

This exaggerated example shows how wide ranging some descriptions can be. Instead, ask for a ceiling speaker that can produce 60Hz to 16kHz at 90dB SPL at the listening position and does not need to be plenum rated, allowing for a better chance of finding the proper solution. The answer could be a six-inch speaker that has a 93dB sensitivity rating so needs more power but meets the acoustical performance needs.

The same can be applied to amplifiers. Is a 400W at 4ohm four channel amplifier needed or could it be a 200W four channel amplifier or two 200W two channel amplifiers? These solutions are not all equal; they change the amount of power needed as well as rack spaces and can also change the amount of waste heat generated by the amplifier. All of these items have to be considered. It may have negligible effects for some projects but for others where it is changing 100 amplifiers, it could be a large expense, not to mention the cost difference of the equipment.

Paying for these changes is a complex thing which involves documentation and clear expectations. This part of the process can become difficult and the challenge happens for suppliers, distributors, integrators, and end-users. While most people are aware of the current supply chain issues, you should still give them their options. Telling a customer that is ready to give you money that their \$1,000 amplifier is not available is never fun, however providing a potential solution is a difference maker. Maybe the \$1,000 amplifier is not available, but the \$1,500 model is. Offering that and letting the customer decide if the price is worth it provides an option and allows them to feel more in control. It is not appropriate to expect the supplier to sell the larger amplifier for the same price just because the original is on backorder before an order is placed. If the problem occurs after the order is accepted and confirmed, that is a different situation.

Also worth noting is that if a supplier says a product will be available on the 13th, that does not mean you will receive it on the 13th. It means the product will be available to ship on the 13th then the shipping time will need to be considered to project an expected delivery date and have staff available for installation. As I indicated at the beginning of this piece, the key to addressing supply chain issues is communication, and it must go in all directions.

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JEREMY BIRCH
AV QUICK START



If you design AV systems with any kind of regularity, how do you start? Understanding the client's needs and the physical characteristics of the room, right? If you're doing T.I. on an existing space, you can conduct a site survey (which could be an article all to itself). If it's a new build and the room only exists on paper, you review the drawings. But either way, that room data drives some very foundational aspects of the AV design (I'll talk more about them soon). Now most people simply refer back to the last project where they had similar-sized rooms and start from a copy of that Bill of Materials (BOM). But what if that prior project (or the one before it, etc.) was based on incorrect design assumptions? In the back of our minds we all know that we should be designing every room based on AVIXA industry standards, but the math behind them often seems too daunting, and all too often we default to what we did "last time".

As an AV Design Engineer myself for 22 years, I knew there had to be a way to make standards-based AV design approachable for more people...a lot more people. As I studied the formulas behind many of the standards, I realized that they could all be extrapolated, directly or indirectly, from little more than the room dimensions. So I made it my goal to create a tool that would provide the greatest amount of standards-based design guidance using the least amount of user input. But to do that I'd have to make some "reasonable assumptions". Take screen sizing, for example.

It's based on the farthest viewer (which experience shows is typically

the most important person in the room, as well). If you've already plugged in the depth of the room, however, it's not a far stretch to assume that the farthest viewer is about 85% of that distance.

The tool would also have to be mobile-friendly, which many design tools still are not. As AV professionals we often find ourselves on the job site being asked on the spot questions like, "What size display is right for this room?" or "What's the biggest display that'll fit in here?"

So just what kind of design questions can be answered using this data-driven approach? I know more can be added to this list, but here's where I'm starting:

1. What's the right size display for my room?
2. How far apart should I place my ceiling speakers?
3. How much amplifier power do I really need per speaker?

Most people overestimate that last one (myself included).

I'll gladly share the math with anyone interested. Just write me at jeremy@avquickstart.com. Or you can just get the results from using the free tool at AVquickstart.com

CULTURE OF ENDUSERGROUPS



THOMAS CALLAN
SIENA COLLEGE
ON BEHALF OF HETMA

Organizational culture can be defined as the collection of values, expectations, and practices that guide and inform the actions of all team members.

There are nearly 4000 colleges and universities in the United States. All of these institutions are very different. There are public and private, religious and secular, business, arts, and engineering all working toward the same goals of educating the next generations of people. With so many differences among our varied institutions in the US and around the globe, the AV community would seem to not be able to function as a larger community. However, in spite of all of the differences, there are so many more similarities between all of us and all of these bring us together as one large AV community.

As a community of AV professionals, we hold ourselves and others up to a higher standard of integrity and push ourselves to do better for the AV community as well as the Higher Ed communities. We all come from different walks of life and different backgrounds, it doesn't matter if we are in an in-person meeting or on Zoom everyone in the "room" is an equal. Based on our values we have high expectations of each other and we expect that the larger AV community has the same expectations as we do. Through this we strive to give our end users the best solution possible at the best cost and we expect the same of the integrators and partners that we team up with.

This community is supported by multiple organizations that bring us together. All of these organizations give us the ability to work together as a group. AV culture as a whole is very different from other industries. Yes, there is competition between manufacturers and integrators, but it's still friendly competition.

While organizations such as HETMA and CCUMC both works to serve the Higher Ed AV community, they both approach it from different points of view. When we have a problem that we are struggling with we can reach out to the people in each of these groups and not only be given multiple solutions that all work but the recommendations are given with true respect for each other and trying to help out someone else. We are all over the country experiencing different things at different times the commonality between us and the sense of community is bringing us together.



ARE YOU LISTENING TO YOUR CLIENT?



PAUL DEXTER

FOUNDER OF JETBUILT
AV SALES & PROJECT SOFTWARE

I'm full of opinions. When meeting new clients as an AV integrator I would arrive loaded with them. It was easy for me to walk into a space – whether a conference room, a fine arts theater, or a church auditorium – and instantly know what should be done in that room. I knew exactly what speaker system I'd use, what type of lighting system, video production, and so on.

Sixty seconds in that space and the full system would be designed in my head without the client saying a word.

And that's really tempting to do. The harder challenge for me was to stop pre-designing and instead ask more proper questions and listen to what the client truly needed. I worked on that for years until this happened: A client wrote a testimonial for my company expressing how "Paul didn't design our system based on his desires or agenda, but based on the needs and goals we expressed in our early conversations". I will remember that forever.

We should all remember that there is no such thing as a best system. The best system for the client is the one that most effectively answers to their needs in the way they will use it.

"Paul didn't design our system based on his desires or agenda, but based on the needs and goals we expressed in our early conversations"

THE RIGHT KINDS OF QUESTIONS

It's not just about asking questions. We have frame our questions properly, as it can be all too easy to steer the client with leading questions. We should be closer to psychologists than police interrogators. Asking if they might want speaker coverage in a certain area for larger events will almost always lead to an "Oh, yes, I could see that being very helpful". Asking if they could use a larger video display will never return with a negative answer. Returning a week later with a proposal that is twice their financial expectations doesn't win any clients – all for the sake of putting our favorite toys into their project.

Rather than asking how many inputs they need, we ask them what a typical presentation consists of. What are the norms? What are the outliers? Are these systems run by professional technicians or volunteers? Are they run



by IT technicians in a corporate environment or by the executives who are hosting the board meetings?

LEAVING BIASES OUT OF THE DESIGN

I remember my first large project was designed by an outside consultant. I couldn't understand some of the odd equipment choices, many of which were unnecessarily driving up infrastructure costs. Only later did I discover the incentivized reasons those round pegs had been forced into square holes. I told myself that my designs would remain clear of any biases like these.

As my company grew I admit this became harder and harder to do. Incentives are not inherently evil and can be very beneficial for all parties so long as the client is properly served. This is not limited to new equipment, as I've seen entire projects designed around a couple of pieces of equipment in the warehouse that someone wanted removed.

LEAVE YOUR EXPERTISE IN

At this point you may be saying, "Boy Paul, aren't you letting the tail wag the dog here? My client doesn't know what end of a microphone to plug the cable into. I always have to take the lead in my consultations".

Don't get me wrong. As the hired and trusted professionals, we are the ones with all the information. It is our job to present dreamy ideas and powerful visions they don't know are possible. The client may not realize they need a stronger video presentation, or perhaps a smaller, more focused speaker system. They are trusting you to know what is possible with our ever-changing AV technology. The difference should be that we are always feeding these ideas based on their needs rather than our agenda.

STAY OUT OF THE WAY

The bottom line is that we should be staying out of the way. We should be an invisible force to bring the clients' dreams into reality. We can do that by checking our biases at the door, asking the right kinds of questions, offering fantastic solutions based on their answers, and using our strong expertise and design personality.





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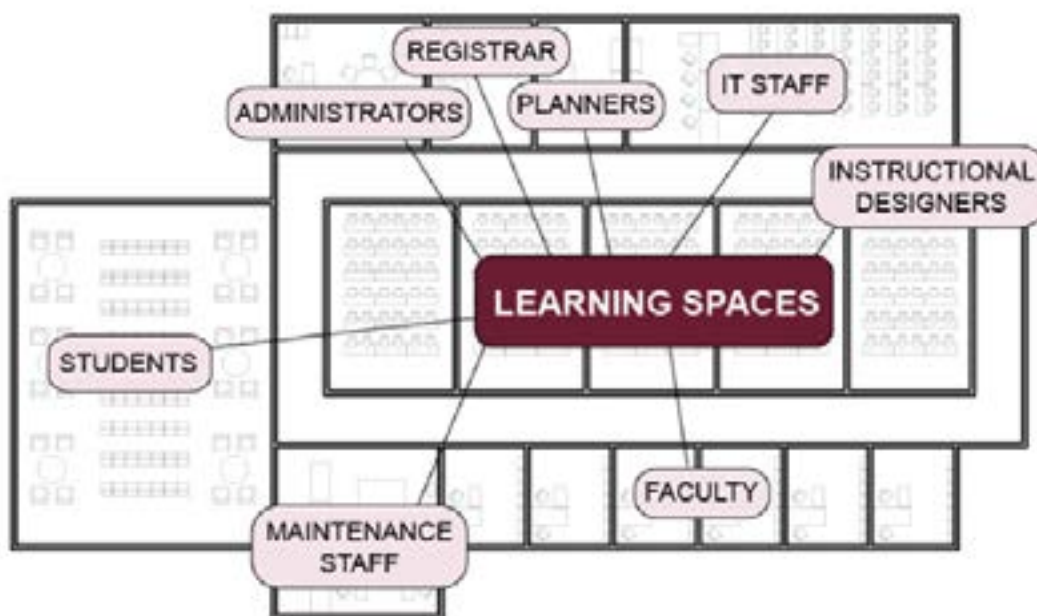
CLASSROOM DESIGN WITH EMOTIONAL INTELLIGENCE IN MIND



WILLIE FRANKLIN
SENIOR TECHNOLOGY SPECIALIST,
OTTERBEIN UNIVERSITY

We've all been there, the typical four wall classroom with what appears to be a 32" monitor at the front of the class, or the lecture hall with an inadequate sound system that can usually be heard in the first five rows. Or how about the convenient yet inconvenient department meeting space with a capacity for eight when your department consists of 13 people, and to enter any of these spaces one must physically turn the door handle and shimmy through on crunches or worst yet in a wheelchair. Gone are the days of designing classrooms and meeting spaces with a "one size fits all" mentality. When designing spaces at universities and colleges today, one must consider the importance of emotional intelligence within the design as the end results impact the whole person that will occupy the space.

According to Psychology Today, emotional intelligence refers to the ability to identify and manage one's own emotions, as well as the emotions of others. Using empathy and beginning a project with the end in mind are key to setting the foundation for continued successful outcomes in classroom design. In other words, you cannot hit a target that you cannot see. Applying emotional intelligence in the design phase means meeting with stakeholders, gathering their ideas, and encouraging them to voice their goals for the space along with any concerns. During this process, listening to understand rather than listening to respond utilizes emotional intelligence. Rather than seeking to impress stakeholders with your expertise, instead gain their trust through deeper buy-in and build strong rapport by showing how much you care. This helps establish key goals as each set of stakeholders may have unique needs which must be considered.





The Stakeholders

(examples)

Students need accessible technology, well lit spaces, and comfortable seating with a room environment that should never distract from the learning process.

Faculty require a space that takes into consideration how teaching is to occur and a space that enhances the programmatic needs of the curriculum.

The Registrar is fully aware that successfully designed spaces are often in high demand, whereas poorly designed spaces can be frequent sources of complaints.

IT Staff will dislike visiting the room for support calls when integrated technology is difficult to access for service.

After consideration is applied to stakeholders, you can shift attention to the end results and final outcomes by starting with the end of mind. Focus attention on product design and functionality rather than brands and product cost. Consider what you want the device to do? How will your end-user interface with it? Are controls easy to navigate, offering intuitive language or meaningless icons? There are multitudes of products on the market to fulfill the technology demands, therefore, focus on whether the selected device performs as desired while considering the warranty and accessible customer support.

The project process is not without barriers to success. There are times when concerns of budget, competing priorities, and difficult personalities become the cen-

ter point of work slow-down. The typical reaction is to anchor strongly in your position and deny emotional intelligence. Instead you should seek to apply the technique of managing up or course corrections. Managing up means working consciously with your supervisor to obtain the best possible results for the project. At times you may have set aside differences, returned to the table, and review project goals while openly discussing barriers to the project's success, e.g., personnel, budgets, technology use, or restraints of building codes. As you can imagine, managing up and emotional intelligence work hand in hand.

In conclusion, when you apply emotional intelligence in the process of classroom design you'll be:

- fully present during the initial presentation of the project while listening intently to the desired outcomes.
- providing a clear action plan for the project that are in alignment with identified, expressed goals of stakeholders.
- communicating openly with stakeholders and managers for greater buy-in to avoid project delays.
- Offer timelines for completion, timely and thorough documentation, end-user training, support services, and follow-up analysis of overtime.

Willie Franklin serves as Senior Technology Specialist at Otterbein University in Westerville, Ohio.

Willie has over 35 years of experience in Higher-Ed AV support, classroom design, coordination of live events and video conferencing technologies. Willie is an institutional member of CCUMC (Consortium of University and College Media Centers) and sole-proprietor of Franklin DJ & Event Services wfranklin@otterbein.edu phone 1-614-823-1663.

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More than 37 million people in the US [report](#) they have trouble hearing, and one in eight people have hearing loss in both ears. Worldwide, about [430 million people](#) have disabling hearing loss, and that number keeps growing.

The Impact of Hearing Loss

There is a tendency among those with hearing loss to avoid loud or noisy environments because not hearing amplified sound clearly can leave them feeling lost, disconnected, and isolated. Imagine attending a class or event and only hearing a portion of what is being said or attending a sporting event and not hearing the results of a call. For people with hearing loss, this can often be their experience.

Rather than attend an educational, fun, or exciting event with family and friends, they opt to sit it out and not participate. They would rather avoid these situations than risk being embarrassed because it's too hard to follow and understand what's happening. Assistive listening technology helps overcome the challenges of hearing loss and fosters inclusion.

Compliance is Only Part of the Bigger Picture

By law, any venue in which audio amplification is integral to the use of the space must provide an assistive listening system, a technology that delivers the audio directly to the user. This includes convention centers, sports arenas, movie theaters, courtrooms, performance art theaters, or any public space that uses a public address system.

Of course, compliance with local and national laws on assistive listening is important, but providing assistive technology like assistive listening systems to ensure no one is excluded is only part of the bigger picture. Communicating the availability of an assistive listening system also increases the chances that the once hesitant person with hearing loss can participate in the things they love.

Several Fortune 500 companies are making assistive listening a standard in all their conference and meeting spaces. These companies are demonstrating that any person who enters their facility is included. They want to ensure employees, patrons, partners, and guests hear clearly and can engage fully.

Providing accommodations to meet the needs of people with hearing loss sends a clear message that businesses and venues value and foster inclusion. Recent studies show that consumers are spending their money with businesses that reflect their values, and there's no doubt that inclusion is a significant value for today's consumers.

According to a report by the American Institutes for Research (AIR), people with disabilities represent a vast and often untapped consumer market, with an aftertax disposable income of about \$490 billion. It also encourages people who share these values—and their spending power—to frequent a business or venue. It isn't just people with hearing loss who are heartened by the steps companies take to foster inclusion; others who value inclusion care too and will shop/visit/do business with these organizations. It's comparable to consumers who value fair trade, sustainability, and corporate social responsibility and shop brands that share those values.

Venues and businesses have several technologies to choose from when considering assistive listening systems.

Assistive Listening Technologies

Technologies used in assistive listening systems include infrared, radio frequency, and Wi-Fi. Here's what you should know about these technologies when selecting an assistive listening system for your business or venue.

Infrared

Infrared light waves—like the technology in many TV remotes—transmit sound to an IR receiver, and the end-user uses headphones or neckloop direct to their hearing aid or cochlear implant, to hear the sound. The system floods a room with infrared light using infrared radiators. Infrared systems are an excellent solution for classrooms, courtrooms, and corporate boardrooms. Infrared systems are line-of-sight and can't pass through walls or be received outside a specific area, making them ideal for anywhere a private audio signal is necessary or in close proximity rooms where interference can be an issue. This system is relatively low-cost and can deliver multiple audio sources.

Radio Frequency

If you've listened to a radio or used a walkie-talkie, then you're familiar with radio frequency. In a radio frequency assistive listening system, the sound is transmitted via radio frequency to a receiver. Like infrared systems, the user listens to the audio using headphones plugged





into the receiver or via a neckloop direct to their hearing aid or cochlear implant. This system is used in small or large spaces, but it isn't ideal in situations where privacy is necessary because the signal isn't contained like an infrared system. People often use this low-cost system in classrooms, public meeting spaces, churches, conference rooms, and theaters.

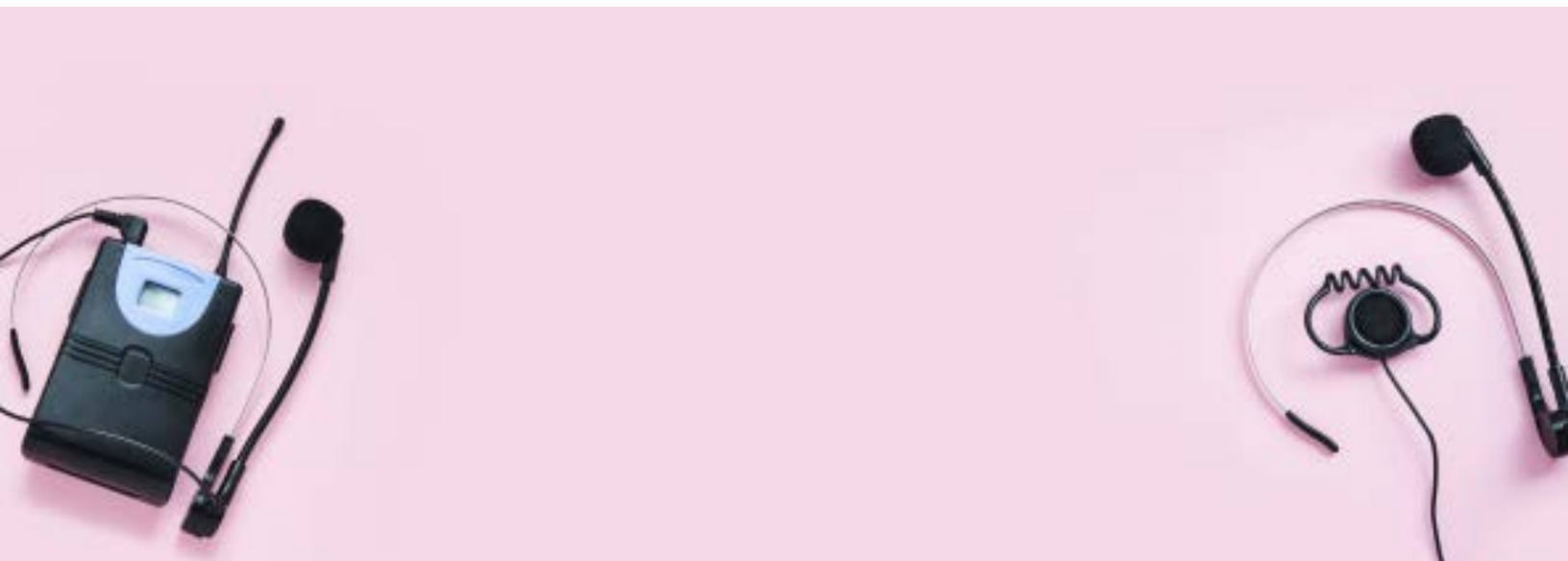
Wi-Fi

What if venues could deliver custom audio content directly to customers on a device they already have in hand? Wi-Fi assistive listening systems deliver streaming audio directly to a guest's smartphone via a free app. Modern hearing aids can pair to smartphones via Bluetooth, allowing customers with hearing loss to listen to audio through their phones using Wi-Fi assistive listening systems. And with approximately 2.5 billion smartphones in use today, there is a tremendous return on investment. Customers enjoy the freedom of discretion when using their own phone rather than a venue-provided receiver and venue managers spend less time distributing and managing equipment.

Combo Compliance Systems

A better, more inclusive system lets customers decide how they utilize an assistive listening system. Combo Compliance systems include the federally mandated assistive listening solution of your choice, whether it's radio frequency or infrared, and combine it with a powerful Wi-Fi system that streams audio directly to a person's smartphone via a free, fully customizable app. Not only does this solution satisfy ADA assistive listening requirements for compliance, but venues also enhance their customer's experience by allowing their customers to select the technology of their choice. Combo Compliance systems are easy to install, and the Wi-Fi servers are connected to existing wireless networks.

If you have questions about what an assistive listening system might do for your business, or if you need assistance selecting or installing an assistive listening system, contact one of our experts today at +1.801.233.8992.



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MAKING SENSE OF WIRELESS PRESENTATION SYSTEMS IN 2021



COSTALAKOUMENTAS
FOUNDER & CEO,
KLIKBOKS, INC.

When a client asks for the biggest display that fits on their meeting room wall you know what to do. Projection, direct-view, video wall, display brightness, resolution, inputs; in no time it's sorted. But what about when they ask for a "wireless system for screen sharing" or some similar description? Have you got the information you need to make a recommendation that's based on their needs? This article will demystify wireless presentation systems and help you better meet the needs of your clients.

Wireless Presentation Systems – A Definition

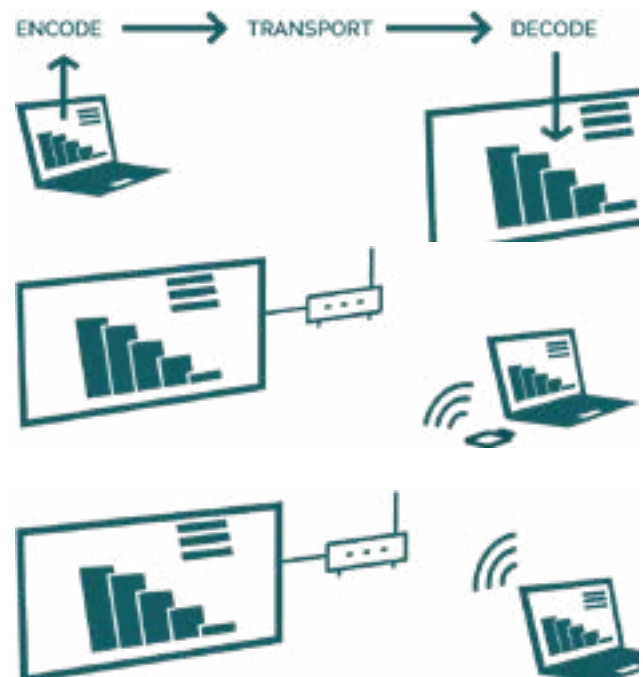
When clients ask for a wireless presentation system, they generally mean they're looking for a way to share content from a wireless device (smartphone, tablet, or PC) to a screen in their meeting room. In essence, the system represents a replacement of the video cable that is typically used between a laptop and a screen. Seems simple enough, especially when you're talking about a laptop, but the client may also expect support for Windows, Mac & Chromebooks, as well as iOS and Android smartphones and tablets. That's where it gets tricky.

Let's Get the Consumer Protocols Out of the Way First

Some years back the advent of the iPad and Apple TV swept many well-meaning educators off their feet as they rushed to adopt them inside their classrooms. The promise of AirPlay was a huge selling point as content could be shared from any tablet to the screen wirelessly. As the first viable (and stable) screen mirroring protocol to hit the consumer market, AirPlay was the "magic bullet" that would transform education. The rest is history but bears some review. AirPlay failed in Education and Business environments for some of

the same reasons that the other legacy protocol—Miracast—did. In fact, it's why the current king-of-the-hill in consumer screen sharing protocols— Google Cast (aka Chromecast)—is also doomed to fail. What all three fail to deliver is robust connection management. Sure, they all support a passcode but once you (or your students) have that passcode, all bets are off. Anyone with the code can send content (any content) to the screen.

The three protocols also work very differently, making the process of onboarding users somewhat complicated. With AirPlay and Google Cast, receiving devices need to be connected to the network, as do clients. All traffic traverses the network to get to the screen. Miracast on the other hand is a peer-to-peer protocol where the client device connects directly to the receiver, and the two devices must be close together to make a reliable connection. And while Google Cast



works on all platforms (as long as they're running the Chrome browser), AirPlay is strictly for Apple devices.

The Hardware Solution and Why it's Dead

A Big Belgian company best known for its projectors came up with a big idea for wireless presentation systems some years ago. With ClickShare™ a user would connect a dongle to their laptop that would transmit video to a receiver connected to the screen. Brilliant, they went on to sell many such systems!

Problem is, hardware devices (laptops, tablets, etc.) continued to evolve so continued compatibility was a challenge. The ClickShare dongle connects to a laptop using Type-A USB and clever trickery to appear as an external display card (along with some code planted on the unsuspecting PC). That's great for Windows and Mac PCs sporting Type-A sockets but what about Chromebooks, Lightning, USB-C and those devices with no ports at all (e.g. tablets).

Sorry, it looks like the hardware solution has hit a big bump in the road. Even the Big Belgian company quietly changed horses and acquired another company building systems that did not require a hardware dongle. (More on that later).

Software Solutions Have Also Come and Mostly Gone

If you own a Windows 10 PC you likely already know about the Connect feature (clearly named by a Microsoft engineer, not a marketing type). This feature allows a Windows 10 PC to act as a receiver while other Win10 PCs mirror their screens (one at a time) to it. The feature is built in to Win10 and if it weren't for the

abysmal name (as compared to say, AirPlay) you might actually be using it from time to time.

The problem with Microsoft's screen mirroring feature is it's built on Miracast and inherits the protocol's frustratingly inconsistent discovery scheme. Half the time you can't find the target device. Many hardware manufacturers have implemented AirPlay support but since there is no official AirPlay product offered by Apple you're still relying on hardware vendors and their bespoke devices. And while there are a couple of software-only vendors out there, their business models are built around licensing users, which clearly doesn't scale very well for most organizations.

The other big issue with the Windows option is that you need a Windows 10 PC everywhere you have a screen. The same goes for a lot of the other "software" solutions in that they require a fairly powerful host device like a PC. At this writing there's no offering that includes professional features and runs on any hardware platform and OS, like Win/Mac/Android/iOS/Linux/ARM. Such a solution would solve the second problem (supported hardware) but does not yet exist.

The Hybrid Solution is Here to Stay

In a hybrid solution we're referring to a Hardware receiver that connects to the display, and a Software transmitter that runs on the client device. Hybrid systems use bespoke hardware that is generally optimized for the feature set and is therefore much more cost-effective than a PC, although that is not always the case. And while most support the 3 consumer protocols, the best also offer their own software app for connection management, encoding and discovery.





As mentioned earlier, even the Big Belgian company decided to hedge their bets and acquire hybrid technology a couple of years back. If the dominant “hardware” player in the segment makes this move it should be a sign to the industry that this is indeed the future. What they and others have done is to center their offering on Hybrid technology but to concurrently offer hardware dongles for those applications that really need that type of solution.

Speaking of dongles, it should be noted that the Big Belgian company holds patents surrounding the USB Type-A dongle and they’ve defended same with exuberance. However, many competitors (aside from Chinese companies who view patent compliance as optional) being a cheeky bunch have successfully brought t market alternative solutions that avoid the patents. In one case the dongle offers an HDMI interface while another employs a USB-C input. In both cases such solutions round out an offering that builds on the Hybrid advantage.

Some Rules of Thumb to Keep In Mind

When approaching any wireless presentation system project, it cannot be overstated that the selection of technology and brand should follow a pattern of investigation around the client’s specific needs. There is no “one-size-fits-all” solution and the time you take to understand the client’s environment and needs will pay enormous dividends in ultimate customer satisfaction.

Here’s where we start:

- Public or Private? A system used by the public will need to be simpler to operate and should support consumer streaming protocols whereas a private system needs to focus more on security and a consistent user interface
- How many users? A small number of regular users can be trained to use a more complex system with many more features while larger numbers will likely be better off with simpler systems at the cost of advanced features.
- Do they have Tech support? A knowledgeable and cooperative tech or IT department is critical for complex deployments and its absence is usually a sign that the system should be simpler and more intuitive to operate
- Client motivation for a wireless presentation system. What is it they’re trying to accomplish with this system? Is it merely a convenience to eliminate the cost and complexity of cabled connections or do they really want to use advanced features like split-screen collaboration, on-screen annotation and live streaming to remote viewers?
- What’s their hardware support like? Many organizations have adopted a BYOD (D = device) policy and that means the system must support all hardware platforms (here come the 3 horsemen again) while others restrict support to Win/Mac PCs.

These are only some of the considerations that you’ll take into account when deciding on which system to recommend. A school with hundreds of students and faculty on Chromebook and Windows machines is likely best served with Google Cast support and a bespoke app for connection management. A courthouse in contrast is likely best served with the bespoke app only and a fallback of dongles for ultimate security. The choices are yours to make.

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About the Author

Costa started his career in professional AV in 1981 after successfully dismantling most electronic audio devices found in his family home. After apprenticing at an integration company he moved on to his own business where he designed and oversaw the installation of AV systems for Houses of Worship, Arenas, Performing Arts Centers, Courthouses and many other venues. In 1998 he joined Mackie where he earned his first patent and delivered over 30 new products including the DX810 Digital Audio Mixer. Since then he has held roles Product Management, Sales and Marketing, developed over 130 AV products and earned 12 patents for innovations in AV technology. In 2015 he founded and currently serves as CEO of KLIKBooks, Inc., makers of the KLIKBooks line of wireless presentation systems.



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DELIVERING SUCCESSFUL dvLED PROJECTS IN A PANDEMIC HOW A MOUNT CAN MAKE OR BREAK AN INSTALL



ROB MEINER
TECHNICAL SALES ENGINEER,
PEERLESS-AV

Having served as a key customer liaison for SEAMLESS by Peerless-AV® dvLED Video Wall Integration projects for the past two years, I've traveled across the US, Canada, and Australia to oversee all manner of installations and have seen how technology and content requirements have evolved firsthand, from standard rectangular displays to large-scale, custom shapes and sizes. The accessibility of dvLED, as a viable alternative to LCD in the video wall market, has come on leaps and bounds. The world of standard VESA mounting points still does not exist in dvLED technology, however, the cost is decreasing, OEMs are investing, ultra-narrow pixel pitch is increasing, lifespans are improving, and LED is now more available in the channel. And from a mounting perspective, the game is changing.



The importance of the mount in an install has never been more significant. As dvLED installs become more complex and challenging, along with end customer creativity, it's the role of the mount manufacturer to work in close collaboration with the OEM and integrator to ensure a smooth and straightforward project delivery. Many in the industry attempt to mount dvLED using the same skillset, experience and sense of urgency of large array LCD flat panel mounting. The idea that dvLED is "similar enough" to approach in that fashion is incorrect. It takes time, patience, and thoroughness to ensure the dvLED mounting system is perfectly installed before mounting the display cabinets; the process should not be rushed. Flexible project planning and expectations regarding timescales should be defined and agreed at the start with all parties.

Peerless-AV offers on-hand resources throughout the entirety of a project starting from the site visit, the design of the solution, training the team in preparation for the install, to on-site guidance during the installation to help every installation safe and straightforward. This is where customers see our greatest value; we are not selling them a mount or standard solution, we are offering a structure and must be involved from beginning to end.

COVID-19 had a massive impact on construction projects. Although the pandemic and aftermath haven't, broadly speaking, rendered projects altogether impossible to complete, it has slowed them down, causing delay and disruption, even if only because

supply chains have been severely disrupted. It has also been a great time for integrators as they were able to have full access to sites without having other trades and guests on the job site. Even though projects were delayed or stopped, I've been on-site for over twenty projects within the US, Canada, and Australia in the past 12 months.

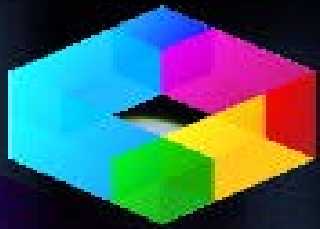
For those projects where I was unable to be on-site, pre-planning was instrumental to the success of the installation. Prior to the installation, there were conference calls with the integration team to walk through the installation steps and how to avoid issues with the mounting solution, dvLED cabinets, and modules. During the installation, we relied on FaceTime to allow me to watch the team, identify issues before the team experiences them, and make suggestions for a seamless installation.

As a mount manufacturer, working with the integrator and OEM as a team from the start is paramount on any project, but for dvLED it's make or break. On a recent installation, the integrator said "wow, the cabinets slid in like butter", and that's the way it should always be when everything goes right.

Follow Rob and his latest dvLED installations on LinkedIn www.linkedin.com/in/robertmeiner/

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PAUL DEXTER

FOUNDER OF JETBUILT
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In general construction it is understood that a contractor cannot possibly give you a price to build your house, hotel, or stadium without a detailed set of plans with which to create that price. You would never ask, "What is your price for a house with five bedrooms, wood floors, and high ceilings?" The builder would have no idea if this should be a \$100k house or a \$4M house. The builder would refer you to an architect to put together a set of drawings from which they could then develop a price.

And yet in AV we're commonly being asked by the potential client, "Give me a price on a nice system with great features". To prevent you from designing too nice of a system, they may mention that they are getting prices from other vendors. So they are literally asking a handful of professionals to each design their own systems with enough detail to then assemble prices for those systems.

One proposal may be a fantastic and reliable system at an aggressively low price. The next may be a very questionable system which is overpriced, but a bit less than the first. The client has done a terrible disservice to themselves as they may choose the questionable system over the solid one at nearly the same price.

"Comparing apples to oranges" is not just a saying, it's for real. Neither the client nor the integrators can benefit in that random and haphazard environment. Each vendor could spend days on their designs before they can even begin to do the job of estimating them.

This is called "designing for free".

Giving away your design in the form of a full line item proposal allows anyone with any amount of AV experience to reverse engineer your design to a large degree. Either the client hands it to another integrator to bid on (which happens every day), or they build it themselves.

I have no problem with free estimates. I also have no problem bidding on fully designed projects where there is only a moderate chance it will be won. This is what estimating is. But free designing? No. Your design is intellectual property resulting in a lot of expertise and work that should never be undervalued. Winning the project is not enough – that design should never have been done for free.

To be clear, there are plenty of clients paying consultants for designs, which go out for bid with a clean process. These are projects where the client or architect has a strong desire to ensure the same standards in AV that they do their electrical systems, plumbing systems, and everything else that goes into a building which needs to be well-designed before going out to bid.

I'm bringing this topic up because over the last several years at Jetbuilt I've talked to many integrators, large and small, who are frustrated with this issue. Even when they hold firm to not design for free, there are plenty behind them that will, so the clients move on to them.

If you don't understand the value that you bring to the relationship, you've already lost the sale.





When you know your value, you can always find a way to express that to the client. If you do a good job of expressing that at the phone call stage, then perhaps they like you. Perhaps they trust you. And then you tell them, “Now if you like all of that, it’s going to cost a little bit for me to spin this up, just like it did with your architect. We’ll create a design for you that will work really well in your space and then we’ll bid on it. You can have four other companies bid on it if you like, and we’ll all be bidding on a proper design.”

THE SOLUTION WE ADAPTED

Clearly this doesn’t work for everyone, but in the last 5 years, I’ve seen a number of integrators adapt a form of this concept so it’s worth sharing.

I know the average client isn’t prepared to spend \$20k+ for a full design package with schematics, details, elevations and electrical details. So the approach I created was a nominal consultation/design fee. We charged \$2000 then credited 75% of that back to the job if they went with us, so they would only pay \$500 for that initial “exploration” phase of the process.

I would go to the site and spend several hours with them. That consultation alone gave them countless ideas and elements they could consider or should avoid. Much of this could and would be used to inspire future meetings with other integrators. That didn’t bother me because my value and trust was being established, and I had been paid for it.

I left with my critical measurements and could still afford time to design them a conceptualized system. I would model the speaker and lighting systems, populate the correct items into Jetbuilt, and write up a findings report, then email a detailed proposal outlining the values with detailed, broken out costs.

We know that \$2000 doesn’t cover the cost of a full design. The proposal itself always included engineering costs, which could be several times the consultation cost (full drawings would be created as part of the contract). The \$2000 was simply an attainable number that we were able to get a majority of the time. It was enough to get some skin in the game from the client. A financial investment is one of the best ways to pre-qualify a client.

WE CAN CHANGE THE WORLD

We can educate our clients, who then refer us to other clients, and so on. All of whom arrive knowing that this is our process. If we stand together, we have a chance of shifting this messy buying pattern for the better. Let’s get paid for our designs!

The Power of CUSTOMER GROUPS



JOE WAY

DIRECTOR OF LEARNING
ENVIRONMENTS, USC

One voice is an opinion. One thousand united voices are a movement. As the audiovisual industry has evolved, the end user has become a stronger driving power in the economic cycle. Once far-removed from the industry's decision makers, in-house integrators are now key stakeholders in the strategic planning and business continuity for manufacturers, commercial integrators, and their respective companies and organizations.

The demand to advocate for the needs of end users and their specific verticals has spawned a surge in the formation and support of customer groups like the Higher Education Technology Managers Alliance (HETMA), AVIXA Tech Managers Council, and AV User Group. As organizations, they support their members through education, certification, idea sharing, community, and emotional and professional support. The ability to grow together as like-minded individuals who recognize each other's daily challenges creates a bond of common understanding that encourages a willingness to collaborate in non-competitive means.

While united through the mutual understanding of one another's needs and daily routines, end user groups fully recognize the power and influence they hold within the entire AV industry. To their point, AVIXA reports the higher education vertical accounts for \$27.2B in annual AV spend just in classroom technology, notwithstanding live events, sports, hospitality, and residential life. Their core belief is that no one knows what they require to be successful more than they do and therefore there is a duty to vocalize their concerns for the advantage of their vertical. By uniting as a single voice, these groups leverage direct relationships with key players in the project chain, negotiate buying agreements, influence product development and feature sets, and participate in internal social sounding boards.

The mantra of "by us and for us" is nowhere truer; being the voice of the customer is not taken lightly. While their employers may compete for clients, students, and patrons, as in-house teams, they are able to work across organizational boundaries to benefit both their organizations and the greater AV industry. The ability to bounce ideas off one another, discover how colleagues solved similar problems, think tank ideas, and vent about the demands of the job is a priceless benefit. For the AV industry, by partnering with end user groups, manufacturers and integrators gain key insights into the actual products and services to develop, and that in-the-end will ultimately sell, because customer groups are equally service providers and customers themselves.

The future for customer groups is strong and promising. At no other time in AV-history has there been a win-win established between customers and service providers since the advent of end user groups. As in-house teams continue to grow as AV professionals in their own right, creating a recognized and representative "fifth pillar" within the AV cycle—among manufacturers, integrators, resellers and distributors, and consultants—is the ultimate goal. Those who were formerly dependent upon the others for information and insight are now able to influence and partner holistically across the industry, ensuring that business practices properly align with client needs for the good of everyone.



The Value of Independent Programmers



STEVE GREENBLATT
OWNER OF CONTROL CONCEPTS, INC.

Lost among the talk about the future of control system programming, the debate of programming vs. configuration, and the justification for custom solutions lies a group of qualified professionals who are addressing client needs; they are small businesses who have beat the odds and quietly established their value to clients and the industry as a whole for 10 to 20 years on average.

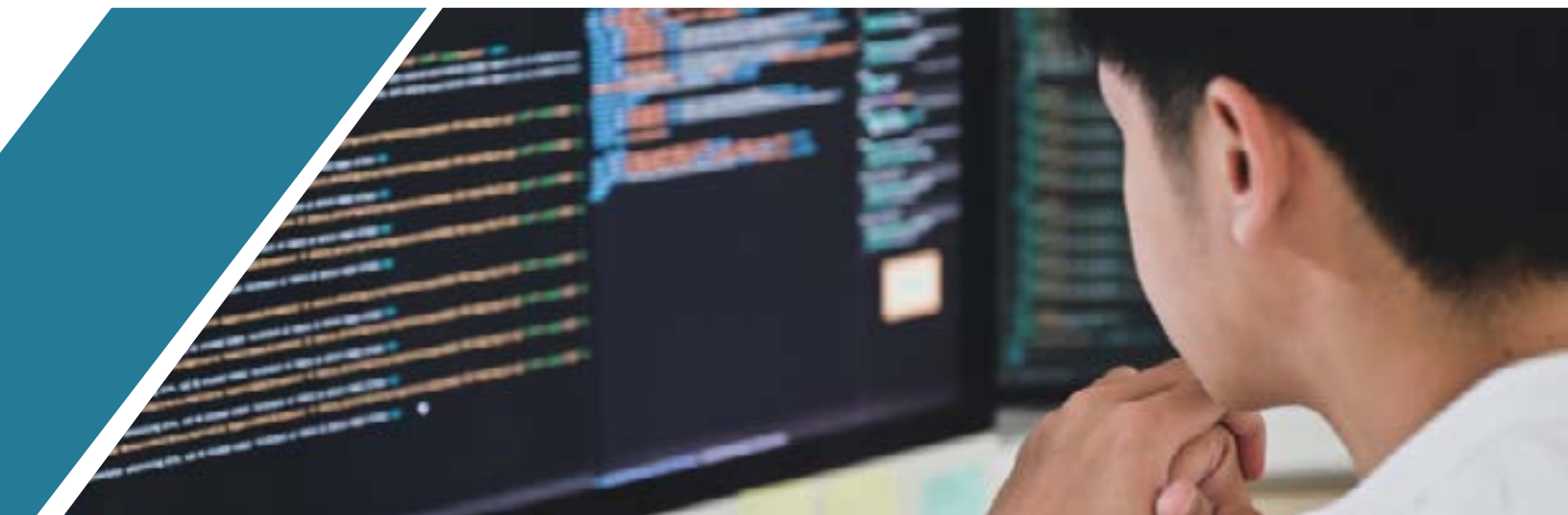
Independent Programming Companies, as they have been coined, have been making a mark in the AV industry since the early 1990's; however, they don't show up on most radars because they don't buy, sell, or specify anything tangible other than their knowledge, experience, and expertise in system operation, device control, and their deliverable of software that makes disparate equipment work together to yield a high-quality user experience.

Just like it sounds independent programmers are unaffiliated with any single organization, employer, or brand. They do not work solely for an integrator, manufacturer, or consultant. Instead, they are independent companies who specialize in their trade of providing system programming, software development, and related services in various capacities to serve a variety of industry clients and niches.

Historically, independent programmers only acted as sub-contractors for AV integrators who needed programming for their systems. As such, they were kept isolated and struggled to establish their own identity. Nowadays with the expansion of the market along with the maturation and growth of individual programming companies, many have gone on to build reputations and followings as "specialists" resulting in long-standing relationships with organizations in several industry roles like technology managers, consultants, manufacturers, as well as other programmers.

By nature, independent programmers are accountable for making the system work, standing by manufacturer's equipment, and being able to troubleshoot and resolve issues. A key element in this role is the tight bond that independent programming companies build with control system manufacturers whose solutions they commit to programming and supporting, as evidenced by the ongoing investment in learning, training, and achievement of certifications that they make in order to advise and serve mutual clients. This includes deep knowledge and a comprehensive understanding of the manufacturer's product line and applications, as well as a mastery of the technical nuances required for effective troubleshooting.





Independent programmers are not the only ones making an investment. Control system manufacturers who see the value in independent programmers look to foster and promote affiliations that signify their commitment and facilitate the association. With some manufacturers, independent programmers are granted access to continuing education, roadmap insight, and/or advanced technical support needed to enhance their success. In the end this symbiotic relationship results in a high level of support and quality outcomes for clients.

While some independent programmers specialize only in the area of AV control, others have expertise that encompass adjacent skill sets like audio configuration. Despite the similarity in naming, audio DSP programming and control system programming represent very different skills and areas of focus. Audio DSP programming involves an in-depth understanding of audio principles including gain structure, room acoustics, echo cancellation, and tuning. Control programming relies on knowledge of broader AV fundamentals including signal flow, control methods, device functionality, IP networks, and overall system operation. What they do have in common is a focus on addressing user needs and providing seamless operation.

It's no coincidence that control system programming and audio DSP configuration represent the biggest variables in a project. They are the most complex, yet most critical aspects of the system. By coupling them together and addressing them with a singular resource, such as an independent programming company, efficiencies are built and less is left open to chance. As most AV systems feature control and audio programming, those service providers who excel at this dual skill set can provide great value.

The capabilities and offerings of independent programmers continue to shine beyond addressing project needs. As many software developers are fluent in modern programming languages and can tackle the challenges of complex device control required for development of middleware (in the form of drivers, modules, plugins, and software applications) to integrate third-party products or address advanced needs. These building blocks help to reduce the effort, lower the costs, increase the efficiency, and enhance the capabilities of integrated systems benefiting the AV industry as a whole.

With client demands moving toward a greater number of network-based, consistent, scalable solutions that can be easily deployed, supported, and maintained to complement bespoke multi-purpose systems that provide flexibility to accommodate changing needs, there is a renewed emphasis on the value of a trusted partner to navigate these requirements, manage software requirements, and provide consistency from project-to-project as well as throughout an enterprise. Independent programming companies have successfully satisfied this need for integrators, consultants, and technology managers for years.

While shining a light on the contribution of independent programming, companies within the AV industry as a whole still has a long way to go, the unsung impact of the last 25 years is significant. Without companies who specialize in programming and related services the ability to keep up with the evolution of technology, industry demands, and the advancement in capabilities of AV control systems and audio DSP solutions would be difficult.

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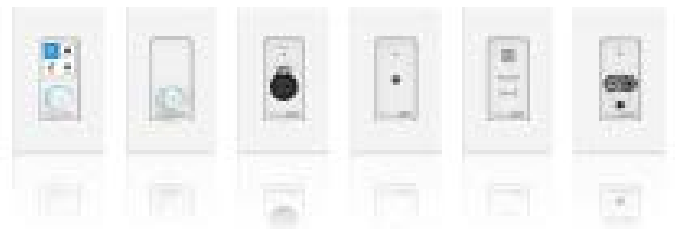
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A decade ago Extron pioneered the use of Class D amplifiers in AV applications. We have continuously reinvented Class D with our meticulous approach to engineering and the development of unique, patented technologies, designed to address the particular requirements of AV workflows and installations.

With NetPA Ultra amplifiers, you get all the advantages of our award winning XPA Ultra amplifiers combined with the power of Dante network audio distribution. Dante connectivity makes it easy to distribute audio from a centralized location to decentralized remote amplifiers throughout a facility, building, or campus using standard network hardware. These ENERGY STAR qualified amplifiers also offer integrated DSP, allowing a single device to function as a complete audio system endpoint. NetPA Ultra power amplifiers provide system scalability, easier installation, and simplified wiring, while meeting the stringent quality requirements of professional audio installations.

<https://www.extron.com/netpaultra>



Crestron Electronics, Inc.

Amplifiers



Crestron's line of convenient modular utility amplifiers gives you a custom-configurable audio solution that delivers professional performance, energy-savings, built-in fault protection, and modular construction. Thanks to their compact design, multiple units can be ganged together in a single rack space or surface-mountable kit.

<https://www.crestron.com/Products/Featured-Solutions/Crestron-Amps>

Juke Audio

Juke-8

The Juke-8 is a 16 channel amplifier for powering pre-wired architectural speakers across an entire home/building. The product also serves as a streamer with 4 integrated wireless inputs for streaming from a phone or tablet over Wi-Fi to any combination of zones.

\$1,399

www.jukeaudio.com

AMPLIFIERS

LEA Professional LEA Professional Cloud

LEA's Cloud platform gives integrators powerful, reliable, and secure remote monitoring and control capabilities when used with the CONNECTSERIES of IoT-Enabled professional amplifiers. By leveraging AWS, integrators can access and control their Connect Series amplifiers from anywhere in the world delivering greater visibility, easier troubleshooting and fewer on-site maintenance requirements.

<https://leaprofessional.com/products/leaprofessional-cloud/>

Pulse-Eight ProAmp8 Amplifier

Pulse-Eight's ProAmp8 is a powerful and versatile 8-Zone Power Amplifier with up to 5.1 Dolby Surround sound. This delivers excellent audio performance with robust and reliable Class D amplification in a compact form factor. The ProAmp8 is the all-in-one ideal solution for both surround sound and distributed audio systems.

\$2,438

<https://www.pulse-eight.com/p/219/proamp-8>

Vanco International Beale 100W, 2 Channel Amplifier

BA2101 delivers a true 100 watts per channel at 8 ohms, providing powerful, clear audio in a small package. The BA2101 offers three audio inputs, including stereo line level, digital optical and digital coax. Inputs are auto-sensing, so they can automatically turn on based on setup options.

Contact for pricing

<https://www.vanco1.com/product/100w-2-channel-amplifier/>

Vanco International PulseAudio 30W, 2 Channel Wall Plate Amplifier with Bluetooth Wireless Technology

The PulseAudio PA230WP is a Class D, 60 watt in-wall power amplifier that supports 4 Ohm and 8 Ohm speakers. The PA230WP features two connectivity options: a stereo input (3.5mm jack), and Bluetooth 4.2 for wireless connection. It automatically switches sources with the priority for Bluetooth connectivity.

Contact for pricing

<https://www.vanco1.com/product/30w-2-channel-wall-plate-amplifier-with-bluetooth-wireless-technology/>

22Miles

22Miles Mobile Wayfinding Application

The 22Miles 3D Mobile Wayfinding system allows users to find indoor routes and information on any mobile device. It offers users the flexibility and convenience to check their intended destinations anywhere, anytime, with options for send-to-mobile maps and turn-by-turn via QR code, text, or email.

<https://www.22miles.com/digital-signage-applications/mobile-web-wayfinder/>

22Miles

22Miles Visual Communications

22Miles's Visual Communications software creates an immersive, future-proof platform combining the latest in Dynamic Content, 3D Wayfinding, SMC, Video Walls, and Touchless Touch, available for a wide range of hardware partners. It connects visual experiences across interfaces and differentiates the user experience with easy-to-edit content, robust visuals, interactivity, and interoperability.

<https://www.22miles.com/blog/visual-communications-intel/>

22Miles

Desktop Notification Suite

Part of the 22Miles Protection-as-a-Service suite of software, the Desktop Notification Suite is a desktop digital notification solution designed to keep remote and distributed workforces aware of all company announcements, news, and other information in real time.

<https://www.22miles.com/desktop-notification-suite/>

22Miles

Digital Signage Ready (DSR)

Compatible with market-leading hardware providers, Digital Signage Ready (DSR) software-as-a-service is a portfolio of ready-built software and service bundles that allow for quick setup and deployment of popular digital signage experiences. DSR encompasses entry-level digital and interactive signage software and content management features that are ready-to-customize, ready-to-bundle, and ready-to-deploy.

<http://www.digitalsignready.com/>

22Miles

Mobile Collaborative Experiences

22Miles enables collaborative mobile experiences via its mobile app solution for HTML5 and iOS/Android. Capabilities include integrations for mobile apps, secure mobile control and API automations for workplace solutions: 3D wayfinding, room and desk booking integrations with hoteling/hotdesking experience, check-in/survey options for access control, printer queue, email integrations, and more.

<https://www.22miles.com/>

BenQ

LK936ST Simulation Laser Projector

Powered by BenQ's revolutionary laser technology, LK936ST true 4K resolution and 5,100 ANSI lumen brightness delivers stunning clarity with a stratospherically high contrast ratio for true blacks, vividly rich colors, and fine subtle details. LK936ST's projection utilizes a dual color wheel system covering unparalleled 92% of the Rec.709 color gamut.

\$5,849

<https://www.benq.com/en-us/business/contact-us.html>

BenQ

LK953ST Laser Projector

The BenQ LK953ST Blue Core laser projector supports 4K UHD HDR presentations for the ultimate in collaboration. The short-throw projector features 3840 x 2160 resolution with 8.3 million distinct pixels and 5,000 lumens of brightness and IP5X-rated DustGuard technology for 20,000 hours of maintenance-free operation.

\$5,499

<https://www.benq.com/en-us/business/projector/lk952.html>

BenQ

LU9915 Laser Projector

The BenQ LU9915 Projector is the brightest choice for large venues, featuring WUXGA resolution, and 100,000:1 contrast ratio for brilliant viewing. The Blue Core laser engine delivers superior color performance through a dual color wheel system, support for 360° and portrait installation, and 24/7 operation with improved durability for applications.

\$13,999

<https://www.benq.com/en-us/business/projector/lu9915.html>

Comprehensive Connectivity Company

USB-C, USB 2.0, 3.0 and HDMI Pass-Through Wall Plates with Pigtailed

Comprehensive's pass-through wall plates offer a clean and professional appearance and help reduce cable clutter in professional spaces. The pass-through ports are professional grade for repeated use in offices, meeting spaces, classrooms, houses of worship, or wherever A/V I room connectivity is required.

\$24.99

<https://comprehensiveco.com/store/c/15471-Decorative-Wall/Faceplates.html>

SurgeX

Squid

Designed to fulfill the unique needs of the modern meeting space, SurgeX Squid creates an entirely new category of power protection. Packing an array of power features into a compact chassis, Squid streamlines installations with boxed networked control, analytics of AC and DC, front-end protection, plus monitoring and management capabilities.

\$599

<https://www.ametekesp.com/surgex/squid>

AUDIO PROCESSING

Extron.

Extron NetPA Ultra Audio Power Amplifiers



A decade ago, Extron pioneered the use of Class D amplifiers in AV applications. We have continuously reinvented Class D with our meticulous approach to engineering and the development of unique, patented technologies, designed to address the particular requirements of AV workflows and installations.

With NetPA Ultra amplifiers, you get all the advantages of our award winning XPA Ultra amplifiers combined with the power of Dante network audio distribution. Dante connectivity makes it easy to distribute audio from a centralized location to decentralized remote amplifiers throughout a facility, building, or campus using standard network hardware. These ENERGY STAR qualified amplifiers also offer integrated DSP, allowing a single device to function as a complete audio system endpoint. NetPA Ultra power amplifiers provide system scalability, easier installation, and simplified wiring, while meeting the stringent quality requirements of professional audio installations.

<https://www.extron.com/netpaultra>



Shure IntelliMix Room 3.1 with AI Denoiser



Shure IntelliMix® Room DSP software can eliminate the random noises that disrupt meetings. Gone are the clicks, clacks, and clunks that can distract you and throw your meeting off track. Beginning with version 3.1, the IntelliMix Room DSP software includes an AI Denoiser audio processor. Developed using artificial intelligence and machine learning, this powerful algorithm is able to tell the difference between noises and speech, and reduce the noise with virtually no audible effect on the speech – even when the speech and noise overlap.

<https://www.shure.com/imxroom>



AtlasIED Atmosphere

AtlasIED's Atmosphere platform sets a new standard for digital audio with multi-zone processors, amplifiers, and a variety of accessories. Touchless control, bell-scheduling, mono or stereo support, easy-to-program automation, and artificial intelligence offer integrators and users an effortless way to create the perfect Atmosphere for their business or school.

www.atlasied.com/atmosphere

AUDIO PROCESSING

Just Add
Power

Just Add Power 2G/3G ST1 Sound Transceiver



Just Add Power's 2G/3G ST1 Sound Transceiver is an audio-only component that functions as either an input or output, allowing residential integrators to easily add a stereo audio source to any Just Add Power system, or to extract stereo audio from an existing transmitter.

Contact for pricing

<http://justaddpower.com/docs/hardware/st1/jp-datasheet-st1.pdf>

Barix Exstreamer M400

Barix's Exstreamer M400 IP audio decoder offers end users and systems integrators a reliable, extensible, and easy-to-deploy decoder platform supporting the latest technology standards. Powered by Barix's high-performance, Linux-based IPAM 400 audio module, the Exstreamer M400 is ideal for applications including background music, paging, SIP/VoIP integration, and emergency notification.

Pricing available on request

<https://www.barix.com/exstreamer-m400>

Barix IP Former

The Barix IP Former hardware transforms analog loudspeakers into feature-rich, networked, PoE-powered IP speakers by providing an IP network interface, audio stream decoder, and amplifier front-end for a two- to eight-ohm speaker. Current analog speaker installations can be upgraded to IP by simply swapping their transformers with IP Former units.

Pricing available on request

<https://www.barix.com/ipformer/>

Biamp Desono™ EX

Desono™ EX elegant surface mount loudspeakers offer excellent speech intelligibility and sound reproduction. Designed for indoor and outdoor use with time-saving installation features, the Desono EX Series includes 6.5-inch, 8-inch, and 10-inch two-way coaxial loudspeakers, as well as a 10-inch subwoofer. All full-range models include 70V/100V transformers and low-impedance inputs.

<https://www.biamp.com/products/product-families/desono/surface-mount-loudspeakers#desono-ex-s6>

AUDIO PROCESSING

Biamp Devio™ SCX

Biamp's Devio™ SCX conference room signal processors deliver extraordinary audio with groundbreaking deployment ease and speed. Leveraging Biamp Launch, they automatically identify every device in the system, measuring acoustic characteristics and applying signal processing, AEC, speaker tuning, and noise reduction. Devio SCX supports Biamp Parlé™ microphones and other network peripherals.

<https://www.biamp.com/products/product-families/devio/medium-large-room-solutions#devio-scx-400>

Nuvo P600 DIN Rail Player Kit

The Nuvo P600 DIN Rail Three-Zone Player Kit includes everything needed for a complete three-zone streaming audio system, including three P600 DIN Rail Players, a PW1060 24VDC power supply, Luxul five-port desktop Gigabit Ethernet switch, On-Q half-width DIN rail bracket, P600 Power Adapter Cables pack, and On-Q Ethernet cables bundle.

See Legrand Dealer Portal for pricing

<https://www.legrand.us/audiovisual/multi-room-audio/nuvo-player-portfolio/p600-din-rail-player/p/nvp600>

Nuvo Professional Series Players

Designed exclusively for integrators, the Professional Series Players are purpose-built for custom audio installations. They offer built-in access to endless music options including the most popular streaming music services and networked music collections. They can be hard-wired with other Players for centralized integration and system scalability. Offering quick installation, easy setup, convenient control options, and simplified integration with leading automation systems.

Check with distributor for pricing

<https://www.legrand.us/search.aspx?q=professional+series+player>

Pulse-Eight ProAudio1632

The ProAudio1632 DSP Pre-Amp Audio Matrix features 40 audio inputs alongside 32 analogue outputs and 32 digital outputs, enabling simultaneous audio distribution to multiple zones. Each output zone can be enhanced with built-in features including 5 band equaliser on each zone, subwoofer control, lip sync delay, plus more.

\$3,298

<https://www.pulse-eight.com/p/211/proaudio-1632>

Pulse-Eight ProAudio3248

The ProAudio3248 DSP Pre-Amp Audio Matrix features 80 audio inputs alongside 48 analogue outputs and 48 digital outputs, enabling simultaneous audio distribution to multiple zones. Each output zone can be enhanced with built-in features including a 5 band equalizer on each zone, subwoofer control, lip sync delay, plus more.

\$7,258

<https://www.pulse-eight.com/p/213/proaudio-3248>

Pulse-Eight ProAudio8

The ProAudio8 DSP Pre-Amp Audio Matrix features 24 audio inputs alongside 8 analogue outputs and 8 digital outputs, enabling simultaneous audio distribution to multiple zones. Each output zone can be enhanced with built-in features including 5 band equaliser on each zone, subwoofer control, lip sync delay plus more.

\$1,318

<https://www.pulse-eight.com/p/215/proaudio-8>

Show Sage LLC Medialon Show Control Solutions

Medialon show control solutions fit every presentation. Manager is a software-based solution that can control any AV equipment using any protocol and network. Showmaster are a range of hardware-based control devices for controlling and synchronizing dimmers, lighting desks, projectors, video servers, audio processors, and special effects.

<https://showsage.com/medialon/>

Show Sage LLC Merging Technologies Ovation

Ovation is the Media Server and Sequencer. Since its introduction, Ovation's ability to handle many tracks of audio and route to many outputs, has made it the perfect tool for immersive audio. It is further enhanced by interfacing intelligently with industry standard 3D audio renderers, show control and video servers.

<https://showsage.com/merging-technologies-ovation/>

Vanco International Pulse Audio Digital to Analog Converter with Dolby Downmixing

The PulseAudio DAC-DD converts digital coaxial or optical audio to analog via dual RCA stereo output. Signals can then be fed to external devices such as an audio system, recording device, or powered speakers. Dolby Digital downmixing assures compatibility with any playback system without having to downgrade the source.

Contact for pricing

<https://www.vanco1.com/product/digital-to-analog-converter-with-dolby-downmixing/>

Yamaha Unified Communications ESB-1090 Sound Bar

The ESB-1090 solves common challenges and limitations in sound output to create a rich, premium audio experience for remote conferencing, classrooms, hotel guest rooms, lobbies, or meeting rooms. Optimizing the audio for each of these environments, the ESB-1090 features three modes, allowing users to opt between Conference, Education, and Hotel.

<https://uc.yamaha.com/products/video-sound-bar/esb-1090/>

Extron.

Extron

NAV Pro AV over IP



NAV® Pro AV over IP Encoders and Scaling Decoders use the Extron PURE3® codec to deliver lossless video, audio, USB, and Ethernet over standard IP networks. NAV Systems deliver groundbreaking performance with resolutions up to 4K/60 with 4:4:4 chroma sampling and ultra-low latency at lower bitrates than the competition. The NAV Series is available with a 1 Gig copper and PoE, 1 Gig fiber, or 10 Gig fiber with a range of up to 10 km. All NAV Series products feature full interoperability between 1 and 10 Gig endpoints.

NAV Scaling Decoders feature Extron Vector™ 4K scaling technology for unparalleled image quality, and can be configured individually, as a WindoWall® videowall, or as a multi-display workstation with enhanced keyboard, video, and mouse (KVM) capabilities. The NAVigator System Manager provides simple configuration and management with an intuitive browser interface. In addition, NAV Pro AV over IP Systems integrate directly with Extron control systems to offer limitless versatility, scale, and range.

<http://www.extron.com/nav>



KissBox B.V.

KissBox Transceivers



KissBoxes are designed as a simple way to transmit-receive control protocol-data like MIDI, DMX, RS232/422/485, LTC-Timecode, Contact-Closure, Analog Control-voltage and more over standard Ethernet networks. With minimum and controlled latency.

A typical KissBox based control system consists of one or more KissBoxes, a network and a controller running control-software. The controller can be any type of 3rd party IP based software or hardware.

A KissBox can be configured to work with many TCP or UDP based IP

control protocols (e.g. RTP-MIDI, ArtNet, Modbus). 3rd party applications can also utilise the simple KISS-protocol to communicate with the KissBox.

KissBox provides an excellent solution for “pipelining” protocols across your network in a Peer-To-Peer fashion as the transceivers are capable of exchanging data with each other without the need of Computers or other types of controllers. Another feature of the KissBox transceivers is the compliance with the IEEE802.3af (Power over Ethernet) standard.

www.kiss-box.com



Crestron Electronics, Inc. DM NVX®



Crestron DM NVX® technology transports ultra-high-definition video over standard Gigabit Ethernet with no perceptible latency or loss of quality. The line is introducing five new interoperable encoders and decoders, enabling you to choose the performance, features, and budget that best suits your application, including DM-NVX-E10/D10, DM-NVX-E20/D20, DM-NVX-D200-SCALER, in addition to the existing DM-NVX-E30/D30.

<https://www.crestron.com/Products/Featured-Solutions/DigitalMedia-NVX-Series>



Crestron Electronics, Inc. DMPS/DM Lite Presentation Switchers



Plug-and-play DMPS Lite and DM Lite solutions cover all the bases in smaller spaces. DMPS Lite products offer a high-value all-in-one AV solution for classrooms, huddle rooms, and small collaboration rooms, while DM Lite transmitters and receivers create simple systems for most spaces at a low-cost with high-performance.

<https://www.crestron.com/Products/Featured-Solutions/DigitalMedia-NVX-Series>

Just Add
Power

Just Add Power 2G/3G ST1 Sound Transceiver



Just Add Power's 2G/3G ST1 Sound Transceiver is an audio-only component that functions as either an input or output, allowing residential integrators to easily add a stereo audio source to any Just Add Power system, or to extract stereo audio from an existing transmitter.

Contact for pricing

<http://justaddpower.com/docs/hardware/st1/jp-datasheet-st1.pdf>

Just Add
Power

Just Add Power 3G 708POE transmitter



Just Add Power's 3G 708POE transmitter not only distributes video resolutions up to 4K Ultra HD with no latency over a single Cat 5e cable, it also features audio extraction from sources, allowing integrators to cost-effectively add a stereo analog audio output to their 3G Ultra HD over IP systems.

Contact for pricing

www.justaddpower.com

Just Add
Power

Just Add Power 3G+ 767DSS Dante Sound System Transmitter



In addition to distributing Ultra HD and 4K video over a single Cat-5e cable, the 3G+ 767DSS transmitter adds compatibility with Dante and AES67 audio networks, with separate switching of audio and video. The transmitter is the first to support the Dante 7.1 chipset for the delivery of 8x8 channels.

Contact for pricing

www.justaddpower.com

Just Add
Power

Just Add Power MaxColor™ 4K60 Series



Just Add Power's new MaxColor™ 4K60 series natively supports 4K60 in and out, allowing end-users to play 4K Ultra HD video from their growing number of 4K sources and devices. It leverages the existing network infrastructure for a fast, affordable 4K upgrade path and limitless matrix.

Contact for pricing

www.justaddpower.com

Just Add
Power

Just Add Power

VBS-HDIP-3G 509POE daisy-chain receiver



Every installation can be highly customized with the Just Add Power VBS-HDIP-3G 509POE daisy-chain receiver. Leveraging legacy networks, installers can add multiple network devices at the endpoint or more receivers without Wi-Fi or pulling additional cabling while passing power to connected devices and distributing 4K video over a single Cat-5 cable.

Contact for pricing

www.justaddpower.com

Just Add
Power

Just Add Power

Warp Engine Transmitter/Receiver



Just Add Power's Warp Engine transmitter/receiver lets installers venture beyond traditional grids and design eye-catching video walls with mixed and matched displays mounted at any angle. Unlike other such products, which are limited to custom graphics or static signage, Warp Engine works with any HDMI source for ultimate flexibility.

Contact for pricing

www.justaddpower.com



Middle Atlantic Products

Premium+ PDU with RackLink™



Monitor, control & optimize AV systems by unleashing the full potential of RackLink™ with Middle Atlantic's Premium+ PDU- delivering the most comprehensive remote management system built for AV with individual outlet power cycling/logging, advanced system monitoring and control, and maximum security.

Check with distributor for pricing

<https://www.middleatlantic.com/products/power/ip-power-control-management>



Blustream Contractor Series IP50HD

The Blustream Contractor HD Video over IP distribution platform delivers AV and control signals over a 1Gb network. Using the industry leading Blustream ACM200 control module, the IP50HD boasts simplified integration with third-party control platforms and uses the company's Drag and Drop TV visual control application, ensuring a seamless experience during installation and for the end user. The IP50HD-TX 1080p HDMI transmitter and the IP50HD-RX 1080p HDMI video scaling receiver use H.265 compression technology to deliver HDMI, as well as bidirectional IR, RS-232, and USB/KVM up to 100 meters over a standard network architecture. The transmitter includes a HDMI loop-out for cascading to multiple devices. Both devices can be powered via PoE from the network switch or locally should the switch not support PoE. With multiple configuration options available, the multicast HD solution is ideal for both residential and commercial installations.

<https://www.blustream-us.com/contractor-1080p-video-over-ip-hardware>



Blustream IP250UHD

The IP250UHD video-over-IP platform distributes AV and control signals over a 1Gb network, using visually lossless compression technology to deliver HDMI, Dante, bi-directional IR, RS-232, and USB/KVM signals up to 328 feet over a standard network architecture, or further when using the units' fiber SFP port. The IP250UHD-TX and IP250UHD-RX support independent or combined HDMI and/or Dante signal distribution to work with any network configuration. The IP250UHD-TX includes an HDMI loop-out for integrating local displays or cascading to multiple devices.

Both the transmitter and receiver can be powered via PoE from the network switch or locally should the switch not support PoE. With multiple configuration options available – including matrix distribution, video wall presentation, one-to-one HDMI extender, and one-to-many HDMI extender – the multicast platform is ideal for both residential and commercial installations.

<https://www.blustream.co.uk/ip250uhdtx>



Vanco International Evolution EVO-IP HDMI over IP System

The award-winning EVO-IP HDMI over IP system consists of a transmitter, receiver, and control box that together allows installers to manage, transmit, and receive AV signals and control hundreds of devices over a local network. Fully customizable and easy to install, the EVO-IP has the ability to transmit virtually lossless 4K@60Hz, 4:4:4, HDR, HDCP 2.2 video, audio, and IR/RS232 control. It's the perfect point-to-point splitter, switch, matrix, and/or video wall solution for commercial and residential applications. New to the EVO-IP product line is the EVO-IP LITE, a cost-effective HDMI over IP solution for installations with video resolutions up to 1080p@60Hz.

Contact for pricing

<https://www.vanco1.com/evo-ip/>

Audinate

Dante AV

Audinate's Dante AV allows manufacturers to add video to the industry-leading Dante audio-over-IP platform. It provides ease-of-use, seamless multi-vendor interoperability, and integrated control experience synonymous with Dante. Dante AV delivers visually lossless results using the JPEG2000 codec and employs a single network PTP clock for accurate time alignment.

<https://www.audinate.com/products/manufacture-products/dante-av-video>

Audinate

Dante AVIO Adapters

Available for analog input or output, AES3, USB, USB-C, and Bluetooth, Dante AVIO Adapters allow users to connect audio gear with any Dante-connected system. AVIO adapters are complete, high-performance devices, with automation that makes Dante the most popular AoIP solution. Cost-effective and compact, AVIOs bring AoIP connectivity audio pros need.

<https://www.audinate.com/products/devices/dante-avio>

Hall Technologies

Javelin

The USB 3.0 Javelin™ Active Optical Plenum Cable allows for data transfer rates of up to 5 Gigabits per second and is Plenum rated. It Provides precise regulated 5v output power at the remote end at up to 900 ma and supports all USB 3.0 devices on all platforms.

<https://halltechav.com/product/cusb3v1-ap/>

KissBox BV

KissBox CM-MIDI2

The KissBox CM-MIDI2 transceiver integrates both the powerful RTP-Midi implementation of our MIDI2TR transceiver, and the USB-Midi communication standard on many musical products. The CM-MIDI2 is ideal for musical applications where high speed communication between USB and Ethernet RTP-Midi is needed.

\$495.00

<https://kiss-box.nl/product-archive/cm-midi2/>

KissBox BV

KissBox DMX1TR

The KissBox DMX1TR Transceiver allows you to use a standard Ethernet network to distribute the DMX-512 protocol. Configure it as an external DMX interface for a PC, Mac or lighting controller, or set-up multiple DMX1TR units to manage up to 64 universes of DMX across the network.

\$560.00

<https://kiss-box.nl/product-archive/dmx1tr-dmx-512-transceiver/>

KissBox BV **KissBox IO3CC**

The KissBox IO3CC can hold 3 standard Kiss-Box I/O-Cards, allowing control over up to 24 I/O points. Input signals received on input cards will be translated to Ethernet UDP/IP or TCP/IP packets and send out over the network. Received Network messages translated to output signals on the selected output cards.

\$378.00

<https://kiss-box.nl/product-archive/io3cc-3-slot-io-cardframe/>

KissBox BV **KissBox IO8CC**

The KissBox IO8CC can hold 8 standard Kiss-Box I/O-Cards, allowing control over up to 64 I/O points. Input signals received on input cards will be translated to Ethernet UDP/IP or TCP/IP packets and send out over the network. Received Network messages translate to output signals on the selected output cards.

\$417.00

<https://kiss-box.nl/product-archive/io3cc-3-slot-io-cardframe/>

KissBox BV **KissBox MIDI2TR**

The KissBox MIDI2TR Transceiver allows you to use a standard Ethernet network to send and receive. Multiple MIDI2TR units can distribute data between them, and/or interface with controllers on the network. A single MIDI2TR can receive and merge the control data of up to 8 different controllers.

\$587.00

<https://kiss-box.nl/product-archive/midi2tr-dual-midirtp-midi-transceiver/>

KissBox BV **KissBox RS2TR**

The KissBox RS2TR transceiver allows for peer-to-peer transmission of RS 232/422/485 signals over standard IP-Ethernet networks without the need for a controlling device. The data can be send as TCP or UDP packages. Serial Port extension for any OS is also possible with our simple to implement IP protocol.

\$560.00

<https://kiss-box.nl/product-archive/rs2tr-high-performance-dual-serial-transceiver/>

KissBox BV **KissBox TC2TR**

The KissBox TC2TR Transceiver allows you to use a standard Ethernet network to distribute Smpte LTC timecode and MTC Midi timecode to any part of your system. Multiple TC2TR units can distribute timecode between them, and/or interface with controllers on the network.

\$640.00

<https://kiss-box.nl/product-archive/tc2tr-ltc-mtcmidi-tranceiver/>

LynTec

NPAC (Networkable Power Automation Control)

LynTec's Networkable Power Automation Control (NPAC) is a complete, ready-to-install power protection, control, and audio sequencing solution in a single 2RU unit that manages up to 80 amps. It's the only pre-terminated solution of its kind to sequence digital audio systems in easy-to-program step rates for proper component boot-up.

Contact for pricing

<https://lyntec.com/npac-multi-circuit-rack-mount/>

Magewell

Pro Convert 12G SDI Plus

Magewell's Pro Convert encoders let users easily and reliably bring traditional video signals into AV-over-IP infrastructures using NDI technology. The Pro Convert 12G SDI Plus converts single-link, 12G-SDI input signals up to 4K at 60 frames per second with embedded audio into full NDI streams with extremely low latency.

Pricing on request

<https://www.magewell.com/products/pro-convert-12g-sdi-4k-plus>

Magewell

Pro Convert for NDI to HDMI 4K

The Pro Convert for NDI to HDMI 4K decodes NDI®, H.264 or H.265 streams up to 4K/60fps into high-quality HDMI outputs for connection to monitors, projectors and legacy equipment. It simplifies using AV-over-IP and internet streams (including SRT and RTMP) in multi-site video distribution, IMAG, video walls and digital signage.

Pricing on request

<https://www.magewell.com/products/pro-convert-for-ndi-to-hdmi-4k>

Magewell

Pro Convert HDMI 4K Plus

Magewell's Pro Convert encoders seamlessly bridge traditional AV signals with NDI-based AV-over-IP infrastructures. The Pro Convert HDMI 4K Plus supports inputs up to 4K at 60fps over its HDMI 2.0 interface, transforming them into NDI streams with extremely low latency. Automatic input format detection and DHCP-based networking enable plug-and-play operation.

Pricing on request

<http://www.magewell.com/products/pro-convert-for-ndi-to-hdmi-4k>

Mauell Corporation Xomnium

Xomnium is a software-based AV over IP solution designed for flexibility and expandability. Integrators can choose the appropriate hardware for each video destination based on needs. Content can easily be sent to video walls, conference room or digital signage displays, or user workstations. Contact Mauell for a personalized Xomnium demonstration.

<https://www.mauell.com/technologies/xomnium/>

NDI NDI 5

A true revolution in video storytelling, NDI 5 is a high-performance standard allowing anyone, anywhere to use near real time, ultra-low latency video on existing IP networks. NDI 5 brings new tools such as NDI Bridge and NDI Remote to billions of devices around the globe.

Free to download

<https://www.ndi.tv/tools/>

Show Sage LLC Lightware Signal Management Solutions

Lightware products help signals get where they are supposed to go cleanly. Their families of extenders, matrices, switchers, distribution amplifiers, and AV over IP solutions make A/V signal distribution easy to set up and maintain.

<https://lightware.com>



FSR Inc Smart-Way Raceway



As physical separation of workstations become more imperative, location of power sources will need to be readily available. The Smart-Way raceway can be configured whatever distance your environment needs and has fitting options to send cables around turns or in both directions. This provides employee's peace of mind knowing they have power or data at an arm's reach, while having space from co-workers. With Smart-Way you can have as much power and/or data accessibility as needed, with up to a four-gang opening device box. Our raceway

gives you adaptability, whether your workstations are moving further apart, or when they are coming closer together in the future. The Smart-Way Raceway system is an intelligent, ADA compliant wire management choice for workplaces, homes, or classrooms.

<https://fsrinc.com/fsr-products/product/smartway-raceway-system>



AtlasIED Z Series

The Z Series is an easily configured all-in-one solution that supplies superior sound-masking and delivers high-quality background music and paging. The breadth of Z Series' capabilities allows it to be used in a variety of applications and environments with single or multi-use designations. Scalable for use in small business office settings to large buildings, Z Series can support almost all sound-masking, BGM and paging design requirements while maintaining high audio quality, easy installation and intuitive user operability with mobile app control.

<https://www.atlasied.com/z-series-overview>



Listen Technologies Listen Combo Compliance Systems

Listen Combo Compliance Systems combine traditional assistive listening systems with audio-over-Wi-Fi technology to help venues meet ADA requirements while also using the latest technology their guests will love. Multiple-channel audio is delivered directly to guest's smartphones through a free, customizable app (Listen EVERYWHERE), or through a venue-provided radio frequency (ListenRF) or infrared (ListenIR) receiver. Guests who use their Android or iOS devices to stream venue-sourced audio can listen with headphones or earbuds, or directly to Bluetooth-enabled hearing aids. Combo Compliance Systems ensure all guests have an exceptional listening experience whether they use their own device or venue-provided receiver.

Explore combo compliant systems and request a quote:

<https://www.listentech.com/product-category/combo-compliance-systems/>

<https://www.listentech.com/combo-compliance-systems/>

BUSINESS SOLUTIONS

22Miles

22Miles Video Walls + Experience Centers

With a robust suite of video wall mapping and multi-touch technologies, 22Miles supports the content design, deployment, and use of multi-screen, flex-orientation, and multi-touch video walls. With the content management solution Publisher Pro, business leaders can deploy and manage large-scale display walls seamlessly for product, history-timeline, events and more.

<https://www.22miles.com/digital-signage-solutions/video-walls-and-touchscreen-video-walls/>

AV Quick Start

Using little more than the dimensions of your room, AV Quick Start is a mobile-friendly web app that helps you quickly establish the foundational requirements of any AV system (screen size, speaker placement, and req'd amp power) by transparently leveraging industry standards.

Free

<https://avquickstart.com/>

BenQ

BenQ RE01 Interactive Displays

Available in 65-inch, 75-inch, 86-inch, and 98-inch models, the RE01 series brings rich and immersive engagement opportunities, affordability, and the industry's only antibacterial touchscreen. The interactive displays integrate EZWrite cloud whiteboard software and InstaShare wireless screen sharing system.

\$1,959

<https://www.benq.com/en-us/business/ifp/education.html>

BenQ

BenQ RM02K Interactive Displays

Available in 55-inch, 65-inch, 75-inch, 86-inch models, the BenQ RM02K Series foster safe collaboration using an interactive display with tools and features designed to get users engaged while protecting the well-being. The interactive displays integrate EZWrite cloud whiteboarding and a SIAA-certified germ-resistant screen that kills most germs accumulating onscreen.

\$1,899

<https://www.benq.com/en-us/business/ifp/education.html>

BenQ

CP8601K DuoBoard

BenQ's DuoBoard features everything meeting participants need: HD camera, speakers, a six-microphone array, video conferencing, and cloud-based screen sharing, and annotation. This all-in-one 4K UHD premium IFP accesses files from any software service. For unparalleled multitasking, two DuoBoards can be synced to create a large immersive uninterrupted interactive surface.

\$11,999

<https://www.benq.com/en-us/business/ifp/cp8601k.html>

BUSINESS SOLUTIONS

BenQ

InstaShow S Wireless Presentation System

InstaShow S WDC20 wireless presentation system is built for network-free, software-free collaboration. The InstaShow S button can connect to nearly any device using an HDMI port and is the most affordable system to securely mirror up to four screens or sources simultaneously at 4K resolution and with up to 32 users to connect.

\$1,499

<https://www.benq.com/en-us/wireless-presentation/instashow/wdc20.html>

BenQ

LU9915 Laser Projector

The BenQ LU9915 Projector is the brightest choice for large venues, featuring WUXGA resolution, and 100,000:1 contrast ratio for brilliant viewing. The Blue Core laser engine delivers superior color performance through a dual color wheel system, support for 360° and portrait installation, and 24/7 operation with improved durability for applications.

\$13,999

<https://www.benq.com/en-us/business/projector/lu9915.html>

BenQ

RP02 Series Interactive Displays

Available in 65-inch, 75-inch, 86-inch models, the cloud-enabled RP02 interactive displays offer safety, security, and simplicity, and are designed to build engaging and healthy collaboration. Features BenQ's Smart Eye-Care technology and an air-quality sensor to monitor carbon-dioxide and humidity. The TUV- and SIAA-certified germ-resistant screen kills most germs accumulating onscreen.

\$2,749

<https://www.benq.com/en-us/business/ifp/education.html>

BenQ

SL02K Pantone Validated Smart Signage Series

BenQ's SL02K Series is the world's first Pantone™- approved color-validated display. The series content broadcasts with colors chosen by designers and in alignment with global brands. The super quiet 500-nit, USB plug-and-play ready displays feature 4K UHD resolution, 50,000-hour lifespan, portrait or landscape orientation, 4GB of memory and 32GB storage.

\$1,099

<https://www.benq.com/en-us/business/signage/pantone-validated-signage.html>

BenQ

ST 4K Smart Signage Series

Delivering vivid images on an anti-glare surface, BenQ's ST Series all-in-one 4K UHD ST Series smart displays with ultra-thin bezels give in-person and remote meeting participants incredible flexibility. Featuring a built-in Android OS, the display is BYOD-ready, while BenQ's InstaShare two-way wireless screen mirroring allows attendees to easily share content.

<https://www.benq.com/en-us/business/signage/smart-signage.html>

BUSINESS SOLUTIONS

C2G

USB-C® Docking Station Kits

With C2G's USB-C® Docking Station Kits, users can quickly transform their laptops into desktops. Instead of plugging multiple devices into their laptops, the keyboard, mouse, monitors, and more are permanently plugged into the docking station, which connects to laptops via a single USB-C or Thunderbolt 3 cable.

<https://www.cablestogo.com/tech/laptop-docking-stations>

Comprehensive Connectivity Company

4K HDMI to USB 3.0 Capture Device

Capture meetings, presentations, and security footage directly to your computer with the CSD-4KCD150 HDMI video capture device. The CSD-4KCD150 allows you to capture up to a UHD 4K60 HDMI video signal and send it to your computer over a USB 3.0 interface, automatically downscaled to 1080p60 for easy video streaming.

\$120.99

<https://comprehensiveco.com/products/4k-hdmi-to-usb-3-0-capture-device.html>

Comprehensive Connectivity Company

Pro AV/IT HDBaseT 4K 18G Single Gang HDMI, USB 2.0 and Audio Wall Plate Extender Kit up to 230ft

Extend 4K HDMI, Audio and USB 2.0 High Speed Signals over a Single UTP Cable up to 230ft.

Comprehensive's CHE-HDBTWP121K Wall Plate Extender kit was designed to extend HDMI, analog audio and high speed USB 2.0 signals up to 230ft over Cat5e or Cat6 cables.

\$679.99

<https://comprehensiveco.com/products/pro-av-it-hdbaset-4k-18g-single-gang-hdmi-usb-2-0-and-audio-wall-plate-extender-kit-up-to-230ft.html>

Comprehensive Connectivity Company

SimpliShare 4K Presentation Adapter Cable

Comprehensive's SimpliShare™ SSH-500T 4K Presentation Adapter Cable is the perfect solution for office, huddle space and conference room applications. It allows connection for various devices that come with USB-C, HDMI or Mini DP video output to any HDMI 4K display or projector that delivers resolutions up to 4K@60 18G.

\$139.99

<https://comprehensiveco.com/products/simplishare-4k-presentation-adapter-cable.html>

Comprehensive Connectivity Company

The Ring

The Ring is a must have product for every conference room, huddle space, and classroom. The Ring is an ultra-durable, steel ring with a selectable number of adapters to ensure you and your clients can always connect their various devices quickly and easily in your meeting or presentation space.

\$99.99

<https://comprehensiveco.com/adapters-dongles/adapter-rings/>

BUSINESS SOLUTIONS

Comprehensive Connectivity Company **Work Anywhere Kits**

Comprehensive's Work Anywhere™ Kits are perfect for expanding your laptop's capability wherever you may be working. These kits conveniently compile all of the necessary cables and hubs into one convenient bundle for expanding your laptop's capabilities at a great price.

\$49.99

<https://comprehensiveco.com/connectivity-kits/laptop-remote-work-kits/work-anywhere-kits/>

EPOS **EPOS ADAPT 200 Series**

The ADAPT 200 series headsets are designed to accommodate the shifting requirements of working professionals. Certified for Microsoft Teams, they provide versatility, flexibility and high audio quality. Meanwhile a noise cancelling microphone allows for enhanced concentration, removing unnecessary ambient noise and augmenting the conversation experience with EPOS Voice™ technology.

\$179

<https://www.eposaudio.com/en/us/enterprise/products/adapt-260-bluetooth-headset-1000882>

Listen Technologies **Listen EVERYWHERE**

Listen EVERYWHERE streams audio over Wi-Fi to smartphones via a free app. Users can listen to venue-sourced audio from their Android and iOS devices with headphones or earbuds, or directly to Bluetooth-enabled hearing aids. Teachers and venue managers can customize the app to feature branded videos, documents, and promotions.

[View Listen EVERYWHERE product offerings and request a quote: https://www.listentech.com/product-category/digital/](https://www.listentech.com/product-category/digital/)
<https://www.listentech.com/listen-everywhere/>

Listen Technologies **Listen NAVILUTION**

Listen NAVILUTION is a GPS-triggered commentary system that delivers audio to passengers in different languages and topics. The system helps tour and transportation providers record engaging and useful audio content that is prompted to play for guests as vehicles travel through pre-selected trigger zones. Internet connectivity not required en route.

[View Listen NAVILUTION product line offerings and request a quote: https://www.listentech.com/product-category/triggered-audio-delivery/](https://www.listentech.com/product-category/triggered-audio-delivery/)
<https://www.listentech.com/listen-navilution/>

Listen Technologies **ListenIR**

ListenIR uses infrared (IR) technology to transmit audio to listeners without amplifying ambient noise. Users wear a small venue-provided receiver and experience exceptional sound clarity through headphones or earbuds. ListenIR offers secure assistive listening and language interpretation and is ideal when confidentiality is essential or in close-proximity to other rooms.

[View ListenIR product line offerings and request a quote: https://www.listentech.com/product-category/infrared/](https://www.listentech.com/product-category/infrared/)
<https://www.listentech.com/listenir/>

BUSINESS SOLUTIONS

Listen Technologies

ListenRF

ListenRF uses radio frequency (RF) technology to transmit audio to listeners without amplifying noise. This affordable assistive listening and language interpretation solution provides excellent sound quality. Ideal for large spaces, including houses of worship, classrooms, theaters, and stadiums; ListenRF is the only system providing both 72 and 216 MHz frequencies.

[View ListenRF product line offering and request a quote: https://www.listentech.com/product-category/radio-frequency/](https://www.listentech.com/product-category/radio-frequency/)
<https://www.listentech.com/listenrf/>

Listen Technologies

ListenTALK

ListenTALK enables two-way communication in any environment. The system features a small transceiver (combination transmitter/receiver), accompanied by venue-provided or users' own headphones or earbuds with built-in mic. Users push a button on the transceiver to speak to the leader or group. Ideal for tours, classrooms and factories; simplifies simultaneous interpretation.

[View ListenTALK product offerings and request a quote: https://www.listentech.com/product-category/digital/](https://www.listentech.com/product-category/digital/)
<https://www.listentech.com/listentalk/>

Pulse-Eight

neo 1x4 HDMI Splitter

neo 1x4 HDMI Splitter is a practical, high specification splitter to cater for the very latest HD products coming into the market for today's and tomorrow's technologies. Distribute high speed HDMI 2.0a and/or HDMI 2.0b Ultra HD 4K, 4:4:4 (18Gbps) video to 4 outputs simultaneously.

\$372

<https://www.pulse-eight.com/p/178/1x4-hdmi-20a-hdmi-20b-splitter-with-hdcp-22-support>

Pulse-Eight

neo HDBaseT Splitter

neo HDBaseT™ splitter is a practical, high specification splitter to cater for the very latest HD products coming into the market for today's and tomorrow's technologies. Extending 4K up to 40 meters and 1080p up to 70 metres, it also supports CEC control, IR control plus voice control.

\$694

<https://www.pulse-eight.com/p/206/1x4-hdbaset-splitter-with-hdcp-22-support>

Pulse-Eight

neo:6a

The neo:6a builds on the success of the neo:8a with dedicated audio breakout from each HDMI source creating the perfect solution for extending into audio distribution and amplifier products. Supporting HDBaseT Class B, it can extend 4K up to 40 metres and 1080p up to 70 metres.

\$2,820

<https://www.pulse-eight.com/p/230/neo6a>

Pulse-Eight

neo:8a

The new neo:8a builds on the success of the neo:8 but features the added benefit of a dedicated audio breakout from each HDMI source at no additional cost. The perfect solution for extending into audio distribution and amplifier products. Supporting HDBaseT Class B, it can extend 4K up to 40 metres and 1080p up to 70 metres.

\$3,798

<https://www.pulse-eight.com/p/216/neo8a>

Pulse-Eight

neo:Ultra HDMI Extender Set

The ultimate HDBaseT™ extender solution. With built in DSC (Display Stream Compression) you can finally extend 4K/60 HDR10 over a HDBaseT link and upto 100m! Additionally at just 13mm it is the slimmest HDBaseT Class C extension solution on the market, making it perfect to mount behind ultra thin TVs.

\$694

<https://www.pulse-eight.com/p/203/neoultra-hdmi-extender-set>

Pulse-Eight

neo:X+ Video and Audio Matrix

Featuring 8 HDMI inputs, 8 HDBaseT outputs and 2 HDMI outputs alongside a full audio matrix with 10 audio output zones and 4 audio input zones. Extend 4K UHD and 1080p up to 100 Metres over a single Cat5e/6/7 cable). Kit includes 8 neo:Ultra 100m HDBaseT Class C+DSC receivers.

\$10,798

<https://www.pulse-eight.com/p/214/neoX>

Show Sage LLC

Show*Server™ Media Servers

Preconfigured and tuned for out-of-the-box use with WATCHOUT, our Show*Server media servers are built on the latest high-throughput architectures. They support 100% frame synchronization and a wide array of live capture and audio output options. Our servers offer cost effective alternatives to proprietary hardware for many media playback applications.

<https://showsage.com/watchout/#showserver>

Show Sage LLC

Show*Station™ Production Workstations

Our Show*Station™ production workstations are specifically designed for production and programming of robust content, with 2TB or more of media storage. They are available in notebook, rack mount, and portable MICRO form factors.

<https://showsage.com/watchout/#showstation>

Show Sage LLC

WATCHPAX 40 & 60 Media Servers

Dataton's media server range is the perfect fit for a wide number of applications. Compact and smart, the WATCHPAX 40 offers four times 4K playback. The WATCHPAX 60 series exceeds the requirements of the toughest environments. It supports uncompressed 4K playback, and offers 4 to 12 outputs.

<https://showsage.com/watchout/#watchpax>

Vanco International

Procell

Procell is a premium professional battery brand, specifically designed for professionals. Vanco is the Preferred Partner for Procell Batteries for the Pro AV, Electrical, and Security markets. Using the right batteries in your projects can result in superior results and cost savings, reducing the need for service calls and replacements.

Contact for pricing

<https://www.vanco1.com/procell/>



Blustream HEX18G-KIT

For installations requiring the highest video quality possible, the HEX18G-KIT delivers 4K 60Hz 4:4:4 UHD, HDR10/10+, and Dolby Vision up to 328 feet over a single Cat6A cable.

The HEX18G-KIT supports the HDMI 2.0 18Gbps specification, including 4K 60Hz 4:4:4 UHD video, and HDCP 2.3/2.2. The HEX18G-TX transmitter and HEX18G-RX receiver support uncompressed distribution of the latest HDR resolutions – including HDR10/10+ and Dolby Vision – for the ultimate in picture quality. HDMI re-clocking on the HDBaseT receiver helps to resolve HDMI HDCP, compatibility, and handshaking issues. The extender set supports all known HDMI audio formats – including Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, and DTS-HD Master Audio transmission – in addition to bi-directional IR, RS-232, and power over cable (PoC).

<https://www.blustream.co.uk/hex18gkit>

C2G C2G Performance Series HDMI Cables

The family of C2G Performance Series HDMI Cables are 100% tested for verified performance and designed to meet the needs of commercial AV applications, from computers to projectors and monitors, AV presentation furniture, or in-wall applications. These HDMI cables are perfect for conference rooms, classrooms, churches, and other commercial installations.

<https://www.cablestogo.com/category/hdmi/hdmi-c2g-performance-series>

C2G Conference Room Video Hub

C2G's Conference Room Video Hub enables up to four users to share 4K content from up to four laptops and tablets over a single HDMI cable. Easy to install, CEC control connects the Video Hub to the correct TV input. Completely plug-and-play, no software, app, or driver is necessary.

<https://www.cablestogo.com/product/29974/conference-room-video-hub-hdmi-and-usb-c>

C2G HDMI® HDBaseT Extenders

Supporting resolutions up to 4K at 60Hz, C2G's family of HDMI® HDBaseT Extenders delivers uncompressed HDMI video and audio signals – in addition to VGA, IR, RS232, USB-C, USB 2.0, and analog audio – up to 328 feet over a single network patch cable to displays in conference rooms, classrooms, and more.

<https://www.cablestogo.com/product/29974/conference-room-video-hub-hdmi-and-usb-c>

C2G Retractable Universal 4K HDMI Dongle Adapter Ring

Attachable to any flat surface, C2G's Retractable Universal Mount 4K HDMI Dongle Adapter Ring includes the adapters to connect nearly any device to an in-room display, while supporting video resolutions up to 4K. The adapter ring features color-coded HDMI-to-DisplayPort, Mini DisplayPort, and USB-C dongle adapters, saving users time and frustration.

<https://www.cablestogo.com/tech/hdmi-adapter-rings>

CABLE & INFRASTRUCTURE

C2G

USB-C® Docking Station Kits

With C2G's USB-C® Docking Station Kits, users can quickly transform their laptops into desktops. Instead of plugging multiple devices into their laptops, the keyboard, mouse, monitors, and more are permanently plugged into the docking station, which connects to laptops via a single USB-C or Thunderbolt 3 cable.

<https://www.cablestogo.com/tech/laptop-docking-stations>

Comprehensive Connectivity Company

MicroFlex Cat6 Cables

Comprehensive's MicroFlex Pro AV/IT CAT6 Snagless Patch Cables are slim, durable and built to last. What makes these cables so unique is they are engineered using high quality 30 Gauge twisted pair construction, a 40% reduction in diameter compared to standard Cat6 cables.

\$5.99

<https://comprehensiveco.com/store/c/25128-MicroFlex-Cat6-Snagless-Ethernet-Cables.html>

Comprehensive Connectivity Company

MicroFlex Pro AV/IT 4K60 18G HDMI Cables

Comprehensive's MicroFlex Pro AV/IT 4K60 18G HDMI cables were designed specifically for the tight spaces encountered by commercial and residential system integrators as well as technology professionals. They support 4K@60Hz 4:4:4 18Gbps and feature SureLength Indicators, ProGrip Connectors, 7 colors, a zero bend radius and lengths up to 35ft.

\$17.99

<https://comprehensiveco.com/microflex-4k60-18g-hdmi-cables.html>

Comprehensive Connectivity Company

Pro AV/IT Active USB 3.0 A Extension Cables

Comprehensive's USB 3.0 active extension cable is a bus powered extension cable that is used to increase the extended distance of USB 3.0 up to 50ft. Perfect for All USB 3.0 Extension Applications including Video Conferencing. It extends webcams, PTZ cameras, Oculus rift sensors, USB Hubs and other digital devices.

\$119.99

<https://comprehensiveco.com/active-usb-cables.html>

Comprehensive Connectivity Company

The Ring

The Ring is a must have product for every conference room, huddle space, and classroom. The Ring is an ultra-durable, steel ring with a selectable number of adapters to ensure you and your clients can always connect their various devices quickly and easily in your meeting or presentation space.

\$99.99

<https://comprehensiveco.com/adapters-dongles/adapter-rings/>

Comprehensive Connectivity Company Work Anywhere Kits

Comprehensive's Work Anywhere™ Kits are perfect for expanding your laptop's capability wherever you may be working. These kits conveniently compile all of the necessary cables and hubs into one convenient bundle for expanding your laptop's capabilities at a great price.

\$49.99

<https://comprehensiveco.com/connectivity-kits/laptop-remote-work-kits/work-anywhere-kits/>

Luxul Epic 5 ABR-5000

The Epic 5 offers everything you'd expect in a full-featured high-performance router including gigabit networking and secure remote access, but it's also much more. Powerful web content filtering and dual-WAN capabilities make the network smarter and more reliable, for a truly exceptional internet experience.

<https://www.luxul.com/routers/wired-routers/abr-5000.aspx>

Luxul Epic Mesh MN-10

The Wireless Mesh Node combines the power of a Luxul wireless product with the ease of retail networking solutions. This node can be used as a replacement router for a new mesh network, or as an additional/replacement node to an existing mesh network. Just plug into an available outlet and use the Luxul Easy Setup App on your iOS or Android smartphone to define how the device will be used: router or node.

<https://www.luxul.com/wireless/mesh/mn-10.aspx>

Luxul Luxul Easy Setup App

The Easy Setup App for iPhone and Android mobile devices allows dealers to quickly and easily install a Luxul wireless router while also ensuring the essential settings are properly configured, resulting in a more secure and effective network for end customers.

<https://www.luxul.com/routers/wireless-routers/easy-setup-app.aspx>

Luxul Managed L2/L3 Gigabit Switches

Luxul managed L2/L3 Gigabit switches, the 48 PoE+ SW-510-48P-F; 24 PoE+ SW-610-24P-R; and 48 PoE+ SW-610-48P-F are designed for large residential and commercial networks. The units are packed with features for simple network expansion and management, while offering high performance with fast switching capacities of 104Gbps, 128Gbps, and 176Gbps, respectively.

https://www.legrandav.com/products/switches/managed_switches/48-port_gb_poe_l2_l3_managed_switch_with_4_sfp_plus/sw-610-48p-f#sort=relevancy&numberOfResults=20

Luxul P40

Luxul's P40 AC1200 WiFi Bridge + Range Extender offers a simple option for extending the reach of your wireless network. It can be used either as a bridge link for directly connecting Ethernet devices to your WiFi network or as a range extender for providing WiFi coverage to those hard-to-reach dead spots.

<https://www.luxul.com/wireless/wireless-access-points/p40.aspx>

Luxul PDU-16

The PDU 16 Power Distribution Unit simplifies installations and reduces the cost of service by providing intelligent power optimized for networking systems. The PDU Series extends control from traditional rack enclosures to hard to reach displays - and everything in between. The PDU 16 offers individual IP control of 8 outlets.

<https://www.luxul.com/accessories/pdu/pdu-16.aspx>

Luxul ProWatch

Your clients' networks host more connected devices than ever before, and their expectations for them all to work seamlessly are higher than ever. With Luxul ProWatch, monitor and manage every device on the network to proactively respond to issues while avoiding truck rolls for simple system management tasks.

<https://www.luxul.com/prowatch.aspx>

Luxul SW-100-08P

The SW-100-08P is a compact Gigabit PoE+ switch that provides eight PoE+ capable ports of Gb Ethernet connectivity with a total power budget of 92 watts. It is an excellent choice for expanding your network when using PoE-enabled devices such as IP cameras and wireless access points and fits easily into the widest range of environments.

<https://www.luxul.com/switches/unmanaged-switches/sw-100-08p.aspx>

Luxul XAP-1610

The XAP-1610 is built with leading edge 802.11ac Wave 2 technology which offers support for more connected devices and increased data rates, delivering outstanding Wi-Fi performance. It is compatible with all Luxul Wi-Fi controllers, both standalone and embedded, and can be used standalone or as part of a multi-AP deployment.

<https://www.luxul.com/wireless/wireless-access-points/xap-1610.aspx>

Luxul

XMS-1208P

The XMS-1208P is a 12 port/8 PoE+ front-facing rackmount switch that provides silent fan-less operation, 24Gbps switching capacity, Layer 3 static routing, 802.1Q VLAN support with trunking, and QoS prioritization—perfect for security and small business installations.

<https://www.luxul.com/switches/poe-switches/xms-1208p.aspx>

On-Q

AC1060 Shelf Mounting Bracket

Designed to offer ultimate flexibility inside an enclosure, the AC1060 Shelf Mounting Bracket is rated to hold devices weighing up to 10 pounds. It can be installed in a standard or an inverted orientation (plastic enclosures only) and is compatible with Legrand's plastic and metal enclosures such as the On-Q Dual Purpose Enclosures and the SANUS In-Wall Media Boxes.

<https://www.legrand.us/>

On-Q

AC106A6 network interface module

Providing support for Cat 6a cable connections, the AC106A6 network interface module terminates up to six data lines to connect high-speed devices like computers, smart TVs, gaming systems, and network streaming devices to the home network. The unit mounts seamlessly in On-Q plastic enclosures and provides easy access to front-mounted 110-IDC terminals and RJ45 connectors. UL-listed and designed to exceed the TIA/EIA 568-C.2 industry standards, the AC106A6's brackets are made of reinforced plastic to support proper punch-down terminations and maintain Wi-Fi transparency.

<https://www.legrand.us/>

On-Q

Flat Screen TV Pro Power and Cable Management Kits

The Flat Screen TV Power and Cable Management Kit easily hides power and AV cables inside the wall without modifying electrical wiring. This kit includes everything needed to extend power to wall-mount TV installations and includes (2) AC2MP3-BK 10ft In-Wall Rated Premium Certified HDMI Cables that support Ultra HD - 4K, High Dynamic Range (HDR), Deep Color, ARC and Ethernet.

Check with distributor for pricing

<https://www.legrand.us/onq/audio-video/home-theater/home-theater-connections/ht22u2-wh-r6c.aspx>

On-Q

In-Wall Power & Cable Management Kits

On-Q In-Wall Power & Cable Management Kits provide installers with everything they need to safely extend power to wall-mounted displays and accompanying devices while neatly concealing power and AV cables inside the wall. The expanded range now includes unassembled top-box models with or without USB, pre-wired kits with USB or surge protection, and a completely unassembled kit with a 12-foot cable that are all compatible with any TV mount, including SANUS premium mounts.

<https://www.legrand.us/on-q>

On-Q

On-Q Dual-Purpose In-Wall Enclosures

Available in 9-inch and 17-inch form factors, On-Q dual-purpose In-Wall Enclosures can be used to house cable boxes, streaming players, and more behind a TV, or as Wi-Fi transparent enclosure for structured wiring, providing a centralized area to store video, voice, and data components.

\$69.99

<https://www.legrand.us/on-q/dual-purpose-enclosures>

On-Q

WiFi-Ready Plastic Structured Wiring Media Enclosures

Made in the USA, On-Q's enhanced plastic enclosures feature a new reversible hinged door with toolless installation, free integrated trim ring for concealing imperfections in drywall, added structural rigidity, locking capabilities, and other design enhancements that help residential installers save valuable time and money while providing a clean, centralized location for a home's wired and wireless services. The 20-inch, 30-inch, and 42-inch enclosures are made from UL-rated ABS plastic, allowing installers to secure devices such as wireless routers, access points, or service provider equipment in the cabinet without degrading network performance.

Check with distributor for pricing

<https://www.legrand.us/>

PowerHouse Alliance

A2V HDMI Cables

The A2V premium high-speed HDMI Cables are available in 12 models with lengths ranging from 1-foot to 30-feet. A2V HDMI cables enable the transmission of HDR video, offer full 18Gbps bandwidth, and include UltraHD 4K@60Hz 4:4:4 chroma sampling. Each cable is DLP Certified Premium HDMI guaranteeing installations are setup for today's 4K/UltraHD environment.

www.powerhousealliance.com

SANUS

VLT7 Advanced Tilt 4D TV wall mount

The VLT7 Advanced Tilt 4D TV wall mount allows mounted displays to be tilted in four different directions. 15-degree swivel capabilities and 6.8 inches of extension from the wall allow them to easily access these components and cabling once the display is mounted. The ProSet Plus feature allows for 1-inch post-install height and level adjustment.

\$158.99

https://www.sanus.com/en_US/products/tv-mounts/vlt7/

Vanco International

Evolution 4K HDR Extender with Digital Audio Breakout, HDMI Loop-out, IR, and PoE

Vanco Evolution 4K HDR Extender delivers HDMI signals at 4K@60Hz up to 70m over Cat6 with zero latency.

Bi-directional PoE allows both transmitter and receiver to use a single power supply. Features an HDMI loop-out and digital optical audio output, and bi-directional IR control.

Contact for pricing

<https://www.vanco1.com/product/4k-hdmi-extender-with-digital-audio-breakout-hdmi-loop-out-ir-and-poe/>

Vanco International

Evolution HDvMI® Extender over Fiber with KVM USB Pass-through

The Evolution by Vanco EVEXFBRK1 extends 4K HDR video and audio signals up to 984ft/300M over multi-mode fiber optic cables, and 6.2mi/10km over single mode fiber optic cables and modules. Bi-directional IR pass-through allows for source and/or display control. The EVEXFBRK1 also features RS-232 pass-through for additional control.

Contact for pricing

<https://www.vanco1.com/product/hdmi-extender-over-fiber-with-kvm-usb-pass-through/>

Vanco International

Vanco Certified Ultra High Speed HDMI Cable

Vanco's certified HDMI cables offer uncompressed 48 Gbps bandwidth and resolutions up to 10K@30Hz, 8K@60Hz, and 4K@120Hz. The cables feature Enhanced Audio Return Channel (eARC) and support for the most advanced audio formats. Additionally, the cables support Variable Refresh Rate (VRR) and Auto Low Latency Mode (ALLM) for next-gen gaming.

Contact for pricing

<https://www.vanco1.com/product/certified-ultra-high-speed-hdmi-cable/>

DA-LITE
a brand of **legrand**

Da-Lite Agility™ Battery Motor



As an option for powering Da-Lite's Tensioned Designer Contour® Electrol® and Designer Contour Electrol ceiling- or wall-mounted screens, the Agility™ Battery Motor is ideal for retrofit installations requiring a flexible alternative to hardwiring. It features a lithium-ion battery that lasts over 200 cycles on a single charge, wireless handheld remote operation, and screen surfaces up to 16K-ready.

Price varies upon install

https://www.legrandav.com/products/da-lite/screens/electric_screens/wall_and_ceiling_mounted_electric_screens/tensioned_designer_contour_electrol

DA-LITE
a brand of **legrand**

Da-Lite Parallax Stratos 1.0



Da-Lite's new Parallax Stratos 1.0 surfaces give residential integrators the freedom to design seamless ambient light rejection screens up to 16 feet high in tensioned electric and fixed frame options. Parallax Stratos is a high value ALR surface that rejects up to 80% of ambient light with 1.0 gain for standard throw projectors (1.0:1 minimum throw).

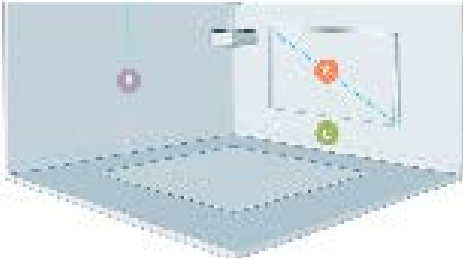
Check with distributor for pricing

https://www.legrandav.com/products/da-lite/screen_surfaces/front_projection/ambient_light_rejection/parallax_stratos_10#:~:text=Parallax%C2%AE%20Stratos%201.0%20is,product%20portfolio%20and%20installation%20applications.

DA-LITE.

a brand of Legrand

Da-Lite Screen Surface Selection Calculator



The new Screen Surface Selection Calculator provides an intuitive user interface for simple navigation of Da-Lite's screen surface technology portfolio, helping installers choose the right surface for any environment. The easy-to-use tool accounts for the differences between lamp- and laser-based projection, as well as the impact of ALR screen surfaces on projection in a room.

Free

<https://legrandscreencalculator.com/>

DA-LITE.

a brand of Legrand

Da-Lite Tensioned Contour Electrol



The Tensioned Contour® Electrol® is the latest ceiling or wall-mounted electric screen offering simple installation. A variety of finishes make this a seamless addition to any room.

Tensioned screens ensure the smoothest surface possible.

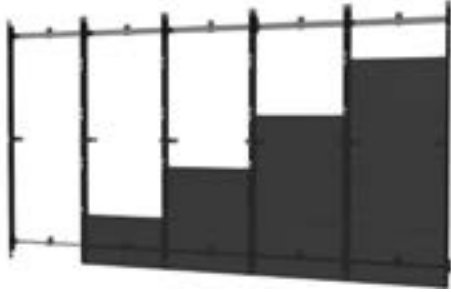
Check with distributor for pricing

https://www.legrandav.com/en/products/da-lite/screens/electric_screens/wall_and_ceiling_mounted_electric_screens/tensioned_contour_electrol

DIGITAL SIGNAGE



Peerless-AV SEAMLESS Kitted Series Flat dvLED Mounting Systems



Peerless-AV's SEAMLESS Kitted Series Flat dvLED Mounting Systems are designed exclusively for leading direct view LED display brands, offering slim, space-saving, and aesthetically appealing designs for multiple configurations. With integrated cable management, easy-hang hardware, and a lightweight aluminum frame, integrators can quickly and easily build the perfect video wall. Peerless-AV® also offers start to finish support through the SEAMLESS dvLED Video Wall Integration Program. The Peerless-AV dvLED Solutions Team is there every step of the way to ensure

every customer receives SEAMLESS product support and service.

www.peerless-av.com/SEAMLESS



Peerless-AV Universal Outdoor Digital Menu Boards



Increase drive-thru sales and promote order efficiency with Peerless-AV's universal Outdoor Digital Menu Boards, designed to support leading 55" outdoor display brands. These all-weather rated, outdoor units offer a low operating cost, modular design, and an easy, two-man installation process. By making the switch to digital, with Peerless-AV's Outdoor Digital Menu Boards, you will no longer need to manually update static menu content throughout the day. Instead, the digital content can be updated remotely and in real-time, creating a seamless drive-thru experience for customers and a more efficient restaurant.

<https://www.peerless-av.com/products/kof555>

22Miles 22Miles Mobile Wayfinding Application

The 22Miles 3D Mobile Wayfinding system allows users to find indoor routes and information on any mobile device. It offers users the flexibility and convenience to check their intended destinations anywhere, anytime, with options for send-to-mobile maps and turn-by-turn via QR code, text, or email.

<https://www.22miles.com/digital-signage-applications/mobile-web-wayfinder/>

22Miles 22Miles Video Walls + Experience Centers

With a robust suite of video wall mapping and multi-touch technologies, 22Miles supports the content design, deployment, and use of multi-screen, flex-orientation, and multi-touch video walls. With the content management solution Publisher Pro, business leaders can deploy and manage large-scale display walls seamlessly for product, history-timeline, events and more.

<https://www.22miles.com/digital-signage-solutions/video-walls-and-touchscreen-video-walls/>

22Miles

22Miles Visual Communications

22Miles's Visual Communications software creates an immersive, future-proof platform combining the latest in Dynamic Content, 3D Wayfinding, SMC, Video Walls, and Touchless Touch, available for a wide range of hardware partners. It connects visual experiences across interfaces and differentiates the user experience with easy-to-edit content, robust visuals, interactivity, and interoperability.

<https://www.22miles.com/blog/visual-communications-intel/>

22Miles

Desktop Notification Suite

Part of the 22Miles Protection-as-a-Service suite of software, the Desktop Notification Suite is a desktop digital notification solution designed to keep remote and distributed workforces aware of all company announcements, news, and other information in real time.

<https://www.22miles.com/desktop-notification-suite/>

22Miles

Digital Signage Ready (DSR)

Compatible with market-leading hardware providers, Digital Signage Ready (DSR) software-as-a-service is a portfolio of ready-built software and service bundles that allow for quick setup and deployment of popular digital signage experiences. DSR encompasses entry-level digital and interactive signage software and content management features that are ready-to-customize, ready-to-bundle, and ready-to-deploy.

<http://www.digitalsignready.com/>

22Miles

Mobile Collaborative Experiences

22Miles enables collaborative mobile experiences via its mobile app solution for HTML5 and iOS/Android. Capabilities include integrations for mobile apps, secure mobile control and API automations for workplace solutions: 3D wayfinding, room and desk booking integrations with hoteling/hotdesking experience, check-in/survey options for access control, printer queue, email integrations, and more.

<https://www.22miles.com/digital-signage-solutions/mobile-app-experiences/>

Barix

AudioPoint 3.0

Streaming to mobile listeners with the lowest possible latency, Barix's AudioPoint 3.0 audio-to-mobile platform brings IP audio delivery to digital signage and live presentations. Combining powerful hardware with free iOS and Android apps, it streams audio to smartphones and mobile devices over local Wi-Fi in near-perfect synchronization with associated visuals.

Price available on request

<https://www.barix.com/>

BenQ

SL02K Pantone Validated Smart Signage Series

BenQ's SL02K Series is the world's first Pantone™- approved color-validated display. The series content broadcasts with colors chosen by designers and in alignment with global brands. The super quiet 500-nit, USB plug-and-play ready displays feature 4K UHD resolution, 50,000-hour lifespan, portrait or landscape orientation, 4GB of memory and 32GB storage.

\$1,099

<https://www.benq.com/en-us/business/signage/pantone-validated-signage.html>

BenQ

ST 4K Smart Signage Series

Delivering vivid images on an anti-glare surface, BenQ's ST Series all-in-one 4K UHD ST Series smart displays with ultra-thin bezels give in-person and remote meeting participants incredible flexibility. Featuring a built-in Android OS, the display is BYOD-ready, while BenQ's InstaShare two-way wireless screen mirroring allows attendees to easily share content.

<https://www.benq.com/en-us/business/signage/smart-signage.html>

Brand Definition

SunBriteTV Pro 2 Series

The SunBriteTV Pro 2 Series features 4K UHD, HDR, high-brightness, commercial-grade displays for full-sun and high-traffic locations. Designed for permanent outdoor installation, the powder-coated aluminum exterior protects each display from the elements while TruVision anti-glare technology creates an excellent viewing experience from almost every angle.

<https://www.sunbritev.com/products/televisions/pro-series-daylight-sun-outside-tv>

Hall Technologies

VERSA 4K

Extend and switch multiple HDMI video and USB data to an unlimited number of receivers on a simple Gigabit network. Bidirectional IR, RS-232, and auxiliary stereo audio can also be extended. Advanced features include low latency audio/video and video wall processing to expand and split 4K video to multiple screens.

<https://halltechav.com/product/versa-4k/>

INFILED

MV Series

Fixed outdoor dvled great for City squares, commercial pedestrian streets, and various transportation hubs. This light and small cabinet is durable for outdoor applications with an IP65 rating. It's high-bright and comes in a fixed pixel pitch of 10mm. Its smaller cabinet size makes for easy installation.

<https://www.infiled.com/PRODUCTS/Fixed-led-screen/543.html>

INFILED WP Series

Ultra-thin dvLED Wallpaper solution great for command and control center, broadcasting, conference room, function room, education, retail, home cinema, gaming, and transportation applications. This narrow pixel pitch comes in 16:9 aspect ratio and comes in pitches ranging from 0.9mm to 3.1mm. Front maintenance and easy to install.

<https://www.infiled.com/PRODUCTS/Fixed-led-screen/508.html>

Magewell Pro Convert for NDI to HDMI 4K

The Pro Convert for NDI to HDMI 4K decodes NDI®, H.264 or H.265 streams up to 4K/60fps into high-quality HDMI outputs for connection to monitors, projectors and legacy equipment. It simplifies using AV-over-IP and internet streams (including SRT and RTMP) in multi-site video distribution, IMAG, video walls and digital signage.

Price available on request

<http://www.magewell.com/products/pro-convert-for-ndi-to-hdmi-4k>

Magewell Pro Convert H.26x to HDMI 4K

Easily bridging live streaming with baseband display and distribution equipment, Magewell's Pro Convert H.26x to HDMI 4K decodes IP streams up to 4K/60fps for output to HDMI monitors, projectors, production and distribution equipment. It flexibly supports H.264 and H.265 streams in protocols including SRT, RTSP, RTMP, UDP, RTP and HLS.

Price available on request

<http://www.magewell.com/products/pro-convert-h26x-to-hdmi-4k>

NanoLumens Captivate

Captivate is an all-in-one solution that eliminates the need for additional components and eases the design and installation costs typically associated with dvLED displays. The series is available in three sizes, (120", 150", and 180"), and is in full HD resolution for exceptional visual performance, brightness, and clarity.

<https://www.nanolumens.com/captivate-series/>

NanoLumens Engage Series

This dvLED display series was created to give customers our simplest -and slimmest- solution yet. Ideal for close-distance viewing environments where image quality is of the utmost importance, narrow pitch Engage Series™ displays are built into a lightweight cabinet system with a native 16:9 ratio, making it easy to import and showcase all kinds of HD and 4K content.

<https://www.nanolumens.com/engage-narrow-pixel-pitch/>

DIGITAL SIGNAGE

NanoLumens

Nixel Series

With pixel pitches as low as 1.25mm, Nixel Series™ displays provide space efficiency, increase advertising ROI, and minimize environmental impact. The Nixel Series™ is the highest resolution display for outdoors on the market and are easy to install and maintain, eliminating the need for rigorous maintenance.

<https://www.nanolumens.com/indoor-outdoor-digital-signage-nixel-series/>

NanoLumens

Performance Series

Specialized for flat surfaces and optimized for brightness, sharp-cornered Performance Series™ displays integrate seamlessly into existing architecture. Designed to enhance and energize outdoor environments, Performance Series™ displays are up to the task, wherever it may be.

<https://www.nanolumens.com/indoor-outdoor-digital-display-performance-series/>

nsign.tv

nsign.tv is an omnichannel communication platform that, in a user-friendly and intuitive way, allow users to store, organize, program and play digital content in a measurable, centralized way on any screen. It can integrate flexibility into a scalable digitalization project through AI, Big Data and IOT to create differential experiences with customers and employees in any physical space.

Free

<https://www.nsign.tv>

Reflect Systems

ReflectView

Reflect provides the industry's most powerful, cost-effective digital signage platform: ReflectView. Together with AdLogic DOOH ad management platform, ReflectView powers some of the largest, technologically advanced digital signage networks in employee communications, entertainment, financial services, healthcare and retail – empowering organizations to create compelling experiences that engage staff and customers.

<https://www.reflectsystems.com/products-services/reflectview/>

Rise Vision

Rise Vision Digital Signage

Rise Vision is the #1 digital signage software solution for K-12 schools. Rise Vision makes digital signage easy by eliminating any impact on IT teams, providing new templates weekly, and offering amazing customer support. Rise Vision is 100% focused on helping schools communicate better and provide a great learning experience.

<https://www.risevision.com/pricing>

<https://www.risevision.com/digital-signage-for-k-12-school-districts>

Extron.

Extron

NAV Pro AV over IP



NAV® Pro AV over IP Encoders and Scaling Decoders use the Extron PURE3® codec to deliver lossless video, audio, USB, and Ethernet over standard IP networks. NAV Systems deliver groundbreaking performance with resolutions up to 4K/60 with 4:4:4 chroma sampling and ultra-low latency at lower bitrates than the competition. The NAV Series is available with a 1 Gig copper and PoE, 1 Gig fiber, or 10 Gig fiber with a range of up to 10 km. All NAV Series products feature full interoperability between 1 and 10 Gig endpoints.

NAV Scaling Decoders feature Extron Vector™ 4K scaling technology for unparalleled image quality, and can be configured individually, as a WindoWall® videowall, or as a multi-display workstation with enhanced keyboard, video, and mouse (KVM) capabilities. The NAVigator System Manager provides simple configuration and management with an intuitive browser interface. In addition, NAV Pro AV over IP Systems integrate directly with Extron control systems to offer limitless versatility, scale, and range.

<http://www.extron.com/nav>

Extron.

Extron

TLP 1230WTG



The TLP Pro 1230WTG is Extron's new ultra-wide touchpanel which features a vibrant 12" 1920x720 resolution touchscreen. The ultra-wide format enhances user experiences since it allows multiple tasks to be seen and managed at the same time. The TLP Pro 1230WTG provides ample screen space to simultaneously display full AV system controls and video preview. It provides an HDMI video preview input that supports high resolution HDCP compliant video from an HDMI source.

The sleek, low-profile design minimizes visual obstructions and improves collaboration engagement in a wide variety of applications.

<https://www.extron.com/tlppro1230wtg>



Draper, Inc. **Acumen®**

Projection conditions vary according to the surrounding environment. That's why the Draper® Acumen® series was designed with maximum flexibility in mind. All Draper viewing surfaces, including 8K-ready, ISF-certified TecVision®, are available with the Acumen, so you can address room and lighting conditions. The Acumen series is available up to 18 feet wide and with a variety of motor options. A rechargeable battery motor goes up to 500 cycles between charges, in sizes to 10' wide. The Acumen's decorative extruded aluminum housing has fewer visible fasteners and complements any room design. The Acumen is covered by an extended 7-year warranty.

Starts at \$1632

<https://www.draperinc.com/projectionscreens/acumen/>



Draper, Inc. **Foundation®**

Wavy walls, uneven floors, and getting parts onsite are a few of the headaches video wall installers face. Draper® designed Foundation® Mount System with those installers in mind. All Foundation parts are sized for easy access to the installation site. A precise design and Z-axis adjustment at the wall and the panel produce a perfectly flat video wall. Angled LED panel mounting slots minimize the amount of contact between LED modules. Unlike so-called "universal" mounts, the Foundation comes with a brand-specific interface to attach the LED panel to our structure, so no onsite cutting or modifications are needed.

Starts at \$,1557

<https://www.draperinc.com/mountsstructures/foundation/>



Draper, Inc. **TecVision®**

Projection environments can vary widely. Whether dealing with ambient light, projector location, wide seating arrangement, or projector brightness, there's a TecVision® solution to address the issue. All 11 TecVision formulations are Imaging Science Foundation (ISF) certified for color accuracy. TecVision features five ambient light-rejection formulations, including one for ultra-short throw projection. Each TecVision surface is designed for uniform performance across the image and from screen to screen. We test each formulation periodically to make sure it is still performing within our parameters. TecVision surfaces are optically seamless—the substrate is seamed, but the image surface is not, so seams are invisible.

Price varies with size/model

<https://www.draperinc.com/projectionscreens/tecvision.aspx>

BenQ

BenQ RE01 Interactive Displays

Available in 65-inch, 75-inch, 86-inch, and 98-inch models, the RE01 series brings rich and immersive engagement opportunities, affordability, and the industry's only antibacterial touchscreen. The interactive displays integrate EZWrite cloud whiteboard software and InstaShare wireless screen sharing system.

\$1,959

<https://www.benq.com/en-us/business/ifp/education.html>

BenQ

BenQ RM02K Interactive Displays

Available in 55-inch, 65-inch, 75-inch, 86-inch models, the BenQ RM02K Series foster safe collaboration using an interactive display with tools and features designed to get users engaged while protecting the well-being. The interactive displays integrate EZWrite cloud whiteboarding and a SIAA-certified germ-resistant screen that kills most germs accumulating onscreen.

\$1,899

<https://www.benq.com/en-us/business/ifp/education.html>

BenQ

RP02 Series Interactive Displays

Available in 65-inch, 75-inch, 86-inch models, the cloud-enabled RP02 interactive displays offer safety, security, and simplicity, and are designed to build engaging and healthy collaboration. Features BenQ's Smart Eye-Care technology and an air-quality sensor to monitor carbon-dioxide and humidity. The TUV- and SIAA-certified germ-resistant screen kills most germs accumulating onscreen.

\$2,749

<https://www.benq.com/en-us/business/ifp/education.html>

Biamp

Modena™

Biamp's Modena™ wireless presentation system can access AV equipment and share content with colleagues in the room or remotely. Modena eliminates impediments like HDMI cables, adaptors, and dongles for a seamless BYOD environment. The product family includes Modena Hub, Modena Hub+ with WiFi access point support, and the Modena Server.

<https://www.biamp.com/products/product-families/modena/wireless-presentation-systems>

Hall Technologies

HIVE Control

The industry's first cloud-based AV control platform engineered from the cloud down. Our system leverages the best in modern IoT, legacy control, and automation systems and delivers superior end-to-end AV solution. We've improved the industry's three major pillars in control; software, interface, and hardware with this scalable and affordable solution.

<https://halltechav.com/hive-control/>

HuddleCamHD

HuddleCamHD SimplTrack2

The HuddleCamHD SimplTrack2 is an auto-tracking PTZ camera with IP and NDI® control and distribution capability. The tracking zone is defined during a simple, one-time setup for automated hands-free operation. Users can set it and forget it or create trigger zones for camera presets or HTML commands.

\$3,300

<https://huddlecamhd.com/simpltrack-2/>

KLIKBoks, Inc.

KLIK Knkt USB-C (KB460)

KLIK is leading the way in wireless presentation systems with the broadest available offering. The KB460 adds wireless streaming from any Win/Mac PC with its single-cable USB-C connector. Plug in, push one button, and stream full-HD content to any KLIK receiver from the impossibly small KLIKStik to the incredible HUB.

The KB460 is available as an add-on to any existing KLIK system or as part of a bundle with one or more KB460 and a KLIK receiver of your choice. Contact us for pricing.

<https://www.klikboks.com/klik-knkt-usb-c>

KLIKBoks, Inc.

KLIKBoks HUB (KB1200)

KLIK is leading the way in digital collaboration and wireless screen sharing for Business, Education & Government. Offering quad split-screen 4K display output, onboard Live Streaming capability, Guest Hotspot, Google Cast & AirPlay support, and over 20 class-leading features, KLIKBoks HUB is the category leader in flexibility, performance and value!

KLIKBoks HUB is the value leader in sophisticated wireless collaboration systems and is available in various configurations including with hardware transmitters as needed. Contact us for pricing information.

<https://www.klikboks.com/klik-boks-hub>

KLIKBoks, Inc.

KLIKStik (KB301)

Add wireless presentation capability to any screen with the industry's most capable and affordable wireless HDMI adapter, the KLIKStik. Works with Windows, Mac, iOS, Android & Chromebooks and supports AirPlay and Miracast for broad compatibility. The KLIKStik connects in seconds and sets up in under 5 minutes with KLIKWizard app.

\$149

<https://www.klikboks.com/klik-stik>

NanoLumens

Captivate

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<https://www.nanolumens.com/captivate-series/>

NanoLumens Performance Series

Specialized for flat surfaces and optimized for brightness, sharp-cornered Performance Series™ displays integrate seamlessly into existing architecture. Designed to enhance and energize outdoor environments, Performance Series™ displays are up to the task, wherever it may be.

<https://www.nanolumens.com/indoor-outdoor-digital-display-performance-series/>

Rise Vision Rise Vision Digital Signage

Rise Vision is the #1 digital signage software solution for K-12 schools. Rise Vision makes digital signage easy by eliminating any impact on IT teams, providing new templates weekly, and offering amazing customer support. Rise Vision is 100% focused on helping schools communicate better and provide a great learning experience.

<https://www.risevision.com/pricing>

<https://www.risevision.com/digital-signage-for-k-12-school-districts>

Vanco International Vanco 4K HDMI® to USB Video Capture Device with Audio Embedding and De-embedding

The Vanco CAPT4K1 allows an HDMI source to be streamed or recorded, resulting in converted content that can be viewed on computers and other capture software locally and/or remotely. The CAPT4K1 can embed and de-embed audio and connect to an HDMI display for recording and editing.

Contact for pricing

<https://www.risevision.com/digital-signage-for-k-12-school-districts>



Peerless-AV Neptune™ Shade Series Outdoor TVs



The Neptune™ Shade Series Outdoor TV is an all-season solution for outdoor entertainment and living, brought to you by Peerless-AV®. This outdoor TV is all weather rated, maintenance-free, and has an operating temperature range of -22°F to 122°F (-30°C to 50°C). With 4K resolution and an IPS panel, Neptune meets the full UHD specifications, providing exceptional color and video quality from any viewing angle. The input compartment and built-in IR repeater provide safe storage and IR control for small video equipment. A FREE Outdoor Tilting TV Wall Mount (\$199 USD value) is included with every purchase to provide a secure installation. Whether you want an outdoor TV on your backyard patio or under the gazebo, quality outdoor entertainment is now a reality with Neptune. Choose between 55", 65", or 75" TV sizes.

<https://neptunetv.com/products/outdoortvs>

Biamp Modena™

Biamp's Modena™ wireless presentation system can access AV equipment and share content with colleagues in the room or remotely. Modena eliminates impediments like HDMI cables, adaptors, and dongles for a seamless BYOD environment. The product family includes Modena Hub, Modena Hub+ with WiFi access point support, and the Modena Server.

<https://www.biamp.com/products/product-families/modena/wireless-presentation-systems>

Blackdove Blackdove Art Server

The Blackdove Art Server allows any display to connect to the Blackdove digital art gallery. The art server enables instantaneous delivery, display, and management of digital art with NFT blockchain registration and end-to-end encryption. This slim device is easily installed and can connect to the Blackdove cloud via Ethernet or WiFi.

Contact us for pricing

<https://blackdove.com/>

Blackdove Blackdove Digital Canvas

The Blackdove Digital Canvas is a purpose-built display for digital art. Available in an array of sizes up to 98 inches, each Blackdove Digital Canvas has an integrated Blackdove Art Server and is designed for continuous operation and can hang in either portrait or landscape orientation.

Contact us for pricing

<https://blackdove.com/>

INFILED WP Series

Ultra-thin dvLED Wallpaper solution great for command and control center, broadcasting, conference room, function room, education, retail, home cinema, gaming, and transportation applications. This narrow pixel pitch comes in 16:9 aspect ratio and comes in pitches ranging from 0.9mm to 3.1mm. Front maintenance and easy to install.

<https://www.infiled.com/PRODUCTS/Fixed-led-screen/508.html>

NDI NDI 5

A true revolution in video storytelling, NDI 5 is a high-performance standard allowing anyone, anywhere to use near real time, ultra-low latency video on existing IP networks. NDI 5 brings new tools such as NDI Bridge and NDI Remote to billions of devices around the globe.

Free to download

<https://www.ndi.tv/tools/>



AtlasIED

IP Enabled Power Distribution

AtlasIED IP power strips are power conditioners with LAN monitoring & remote control for AC power distribution management. They feature a web based user interface (UI) that can monitor voltage, current, temperature and humidity. Through the UI alarms can be set to alert users when a fault condition has occurred via the network UI or Fault contacts. The rear outlets are programmable and can be scheduled to sequence On / Off individually or in groups on a 24-hour / 7-day schedule. Perfect to pair with Texas Tough cabinets and racks for enhanced equipment monitoring.

<https://www.atlasied.com/ip-enabled-power-distribution>



FSR Inc

Smart-Way Raceway



As physical separation of workstations become more imperative, location of power sources will need to be readily available. The Smart-Way Raceway can be configured to whatever distance your environment needs and has fitting options to send cables around turns or in both directions. This provides employee's peace of mind knowing they have power or data at an arm's reach, while having space from co-workers. With Smart-Way you can have as much power and/or data accessibility as needed, with up to a four-gang opening device box. Our Raceway

gives you adaptability, whether your workstations are moving further apart, or when they are coming closer together in the future. The Smart-Way Raceway system is an intelligent, ADA compliant wire management choice for workplaces, homes, or classrooms.

<https://fsrinc.com/fsr-products/product/smartway-raceway-system>



Middle Atlantic Products

DC Power Distribution



DC Power Distribution eliminates unreliable, bulky wall warts, is equipped with the highest available power in the market, offers superior current capacity, and an industry-leading quantity of outputs. The new 200W and 300W models expand the offering unmatched flexibility for the most comprehensive portfolio of solutions for any installation.

Check pricing with distributor

<https://www.middleatlantic.com/products/power/dc-power-distribution.aspx>



Middle Atlantic Products Premium+ PDU with RackLink™



Monitor, control & optimize AV systems by unleashing the full potential of RackLink™ with Middle Atlantic's Premium+ PDU- delivering the most comprehensive remote management system built for AV with individual outlet power cycling/logging, advanced system monitoring and control, and maximum security.

Check pricing with distributor

https://www.middleatlantic.com/products/power/ip-power-control-management.aspx?utm_source=google&utm_medium=search&utm_campaign=racklink&utm_content=pdu&gclid=Cj0KCQjwwOz6BRCgARIsAKEG4FUmTjE_EVfx9vk5c1e_nXpldkVH_0oc8n0eVF_Ycv83HrtggAcFjoaAs_TEALw_wcB



Middle Atlantic Products Select Series UPS Backup Power Systems



Easy to install and competitively priced, Select Series UPS Backup power systems ensure uptime of electronic components during power outages. Available in 1RU, 500VA and 1000VA models for easy one-person installation and maximum runtime in a minimal footprint and 2RU, 1500VA or 2200VA models, all models are capable of remote

monitoring and control with an optional IP card. Bank control of outlets allows simple system rebooting as well as load shedding of noncritical equipment.

Check pricing with distributor

<https://www.middleatlantic.com/products/power/ups-backup-power-systems/ups-select.aspx>

LynTec Lighting Control Panelboard Series

LynTec's LCP Lighting Control Panelboards are tailored for lighting applications. Built on the same internationally recognized Square D G3 Powerlink™ controllable circuit breaker platform as the patented RPC Power Control Series, the LCP includes the lighting control features these projects require and increased installation flexibility.

Contact for pricing

www.lyntec.com

LynTec

Narrow Profile Panelboards

LynTec's Narrow Profile Panels utilizes the same Square D Powerlink motorized circuit breaker hardware platform as the standard RPC and LCP panels but requires significantly less horizontal wall space. Only a mere 9 inches wide, the column-width panels pack in performance, housing up to 42 controllable circuit breakers.

Contact for pricing

https://lyntec.com/wp-content/uploads/2021/02/NARROW_SalesSheet.pdf

LynTec

NPAC (Networkable Power Automation Control)

LynTec's Networkable Power Automation Control (NPAC) is a complete, ready-to-install power protection, control, and audio sequencing solution in a single 2RU unit that manages up to 80 amps. It's the only pre-terminated solution of its kind to sequence digital audio systems in easy-to-program step rates for proper component boot-up.

Contact for pricing

<https://lyntec.com/npac-multi-circuit-rack-mount/>

LynTec

Remote Power Controller Series Panels

LynTec's RPC series power control panels are fully self-contained, extraordinarily flexible systems that speed electrical control installations and decrease operating costs. Loaded with motorized circuit breakers or relays, LynTec panels can be operated with their on-board controller (scheduling timer, Ethernet or contact closure) or interfaced with multiple control protocols simultaneously.

Contact for pricing

<https://lyntec.com/remote-control-breaker-panel/>

LynTec

RPCR Remotely Controlled Relay Panels

LynTec's RPCR relay panel brings branch circuit control and monitoring to any existing breaker panel. With relay functionality and a built-in Web server for control, troubleshooting, and monitoring directly from any Web-enabled device. The unit provides remote electrical control to LED lighting, powered amplifiers, and energy management programs.

Contact for pricing

<https://lyntec.com/automated-relay-panel/>

LynTec

Xtend Power Control Series

LynTec's XPC Series of remote relay modules extend the reach of the company's relay panels and motorized circuit breakers. Installable anywhere equipment is located, they eliminate the expenses of bringing electricity back to the main panel. The family includes 20 and 30-amp relay modules, 20-amp and 80-amp rack sequencers, and the XPC controller — offering LynTec's trusted RPC control solution in a standalone 1RU enclosure.

Contact for pricing

<https://lyntec.com/xpc-xtend-power-control-series/>

On-Q

Flat Screen TV Pro Power and Cable Management Kits

The Flat Screen TV Power and Cable Management Kit easily hides power and AV cables inside the wall without modifying electrical wiring. This kit includes everything needed to extend power to wall-mount TV installations and includes (2) AC2MP3-BK 10ft In-Wall Rated Premium Certified HDMI Cables that support Ultra HD - 4K, High Dynamic Range (HDR), Deep Color, ARC and Ethernet.

Check pricing with distributor

<https://www.legrand.us/onq/audio-video/home-theater/home-theater-connections/ht22u2-wh-r6c.aspx>

On-Q

In-Wall Power & Cable Management Kits

On-Q In-Wall Power & Cable Management Kits provide installers with everything they need to safely extend power to wall-mounted displays and accompanying devices while neatly concealing power and AV cables inside the wall. The expanded range now includes unassembled top-box models with or without USB, pre-wired kits with USB or surge protection, and a completely unassembled kit with a 12-foot cable that are all compatible with any TV mount, including SANUS premium mounts.

<https://www.legrand.us/on-q>

SurgeX Squid

Designed to fulfill the unique needs of the modern meeting space, SurgeX Squid creates an entirely new category of power protection. Packing an array of power features into a compact chassis, Squid streamlines installations with boxed networked control, analytics of AC and DC, front-end protection, plus monitoring and management capabilities.

\$599

<https://www.ametekesp.com/surgex/squid>

SurgeX

UPS + Isolation Transformer

The SurgeX UPS + Isolation Transformer represents a complete power management solution featuring continuous power supply, line-interactive technology and power conditioning. Available in three models, the compact solution brings the benefits of a large-format UPS to the rack, combined with a low-impedance isolation transformer to constantly filter and condition power.

\$3,329

<https://www.ametekesp.com/surgex/ups-transformer/ups-transformer-120-208v>

Extron.

Extron

Quantum Ultra II



Quantum® Ultra II is the next generation of Extron video wall processors, providing advanced, future-ready connectivity and throughput capabilities. The expanded HyperLane® video bus delivers unmatched real-time performance with a throughput of up to 500 Gbps while the Extron-exclusive Vector 4K scaling engine delivers best-in-class image upscaling and downscaling. The 18 Gbps HDMI connections on the 4K input and output cards support resolutions up to 4K/60 at 4:4:4 with full HDCP 2.3 compliance. Embedded HDMI audio from any source can be routed to each active canvas. The processor can support multiple video walls with mixed resolutions and screen orientations. Flexible features include portrait and landscape

output support, output overlap, and custom output resolutions. For operation, RS-232, USB, and Ethernet interfaces provide direct connection to your control system. These features, capabilities, and much more ensure compatibility with today's displays for any size video wall.

<https://www.extron.com/quantumultra2>

NanoLumens

Engage Series

This dvLED display series was created to give customers our simplest -and slimmest- solution yet. Ideal for close-distance viewing environments where image quality is of the utmost importance, narrow pitch Engage Series™ displays are built into a lightweight cabinet system with a native 16:9 ratio, making it easy to import and showcase all kinds of HD and 4K content.

<https://www.nanolumens.com/engage-narrow-pixel-pitch/>

FURNITURE CONSIDERATIONS



Chief Koncīs™ Series monitor arm mounts



Available in single and dual-monitor configurations, Chief Koncīs™ Series monitor arm mounts combine sleek aesthetics with advanced functionality like premium gas springs and Centris® Extreme Tilt technology to ensure optimal productivity in the home office – all at a budget-friendly price point.

See *Legrand dealer portal* for pricing

https://www.legrandav.com/products/chief/mounts/monitor/desk_mounts/dma



Da-Lite Agility™ Battery Motor



As an option for powering Da-Lite's Tensioned Designer Contour® Electrol® and Designer Contour Electrol ceiling or wall-mounted screens, the Agility™ Battery Motor is ideal for retrofit installations requiring a flexible alternative to hardwiring. It features a lithium-ion battery that lasts over 200 cycles on a single charge and wireless handheld remote operation and screen surfaces up to 16K-ready.

Price varies upon install

https://www.legrandav.com/products/da-lite/screens/electric_screens/wall_and_ceiling_mounted_electric_screens/tensioned_designer_contour_electrol



Middle Atlantic Products C3 Series Credenzas



Middle Atlantic Products' C3 Series slim-profile credenza marries modern aesthetics with a trusted rack frame and flexible equipment mounting options for commercial installations. The included surge-protected, power distribution and active thermal management adhere to rack mounting best practices to protect and extend the life of a customer's AV investment.

Check pricing with distributor

<https://www.middleatlantic.com/products/technical-furniture/credenzas/c3-series-pre-configured-credenza.aspx>

FURNITURE CONSIDERATIONS



Middle Atlantic Products T5 Series Conference Tables



Middle Atlantic Products' T5 Series Conference Tables are the industry's only conference table designed to properly support AV technology with ultimate system reliability. Built upon Middle Atlantic's well-known rack engineering expertise, it features a patent-pending, swing-out rack that ships immediately and can be configured for rackmount or small device gear.

Check pricing with distributor

<https://www.middleatlantic.com/products/technical-furniture/tables/t5-series-conference-tables.aspx>

Auton Motorized Systems Dream Machine

The Dream Machine is the only lift solution that can hide a flat panel as large as 80 inches discreetly under a bed. After the display glides out from beneath the bed, select Dream Machine models can fully swivel 360 degrees for viewing anywhere in the room. The Dream Machine smoothly and quietly glides out from under the bed, making use of otherwise unoccupied space and instantly transforming the room at a touch of a button.

<https://auton.com/collections/dream-machine>

HOME AUDIO



Crestron Electronics, Inc. DM NAX™ 8-Zone Streaming Amplifier



DM NAX distributes all audio on your network, making it much easier and cost effective to scale. DM NAX takes analog, digital, and streaming sources and distributes them all over your network, where you can remotely and securely control and manage the sources. It also seamlessly integrates with DM NVX.

<https://www.crestron.com/Products/Audio/Multiroom-Audio/Multiroom-Audio-Systems/DM-NAX-8ZSA>



PowerHouse Alliance

The PowerHouse Alliance is a national consortium of regional wholesale distributors delivering name brand products for custom installers, specialty dealers, large retailers, and industry buying groups in the residential and commercial audio/video, home entertainment, security, networking, and consumer electronics accessories markets. The PowerHouse Alliance 11 distributor members represent over 850,000 square feet of warehouse space in over 55 convenient locations across the United States. Stocked with more than 250+ product lines including house-brand A2V, the PowerHouse Alliance creates cost efficiencies for manufacturers and buying power for customers. The PowerHouse Alliance offers a national footprint with the added benefit of local sales people, training, and support.

<http://www.powerhousealliance.com/>

Caster Communications Enclave Audio CineHome II

The Enclave Audio CineHome II 5.1 channel wireless surround sound speaker system leverages WiSA technology to deliver high-definition wireless audio. Complementing any home entertainment environment, the system sets up as quickly and easily as a soundbar but provides the unmatched performance of a dedicated surround sound system.

\$1,099.98

<https://www.enclaveaudio.com/collections/cinehome-systems/products/enclave-cinehome-ii-wireless-home-theater-system>

Enclave Audio CineHome PRO

The Enclave Audio CineHome PRO surround sound speaker system is the first THX and WiSA Certified wireless home theater system. Scalable up to 5.4 channels, the CineHome PRO sets up as quickly and easily as the leading soundbar systems but provides all the sonic benefits of a dedicated surround sound audio system.

\$1,599.98

<https://www.enclaveaudio.com/products/enclave-cinehome-pro-wireless-home-theater-system>

Nuvo

Airplay2 Support

Apple AirPlay 2 support has arrived for Nuvo Player Portfolio systems worldwide. Available with select models running software version 2020.2, AirPlay 2 integration allows users to stream content seamlessly from iOS devices to one or more Nuvo players at once, allowing them to enjoy their music throughout the home in perfect sync and control playback with Siri. Player Portfolio devices that natively support AirPlay 2 include Nuvo's P600 DIN Rail Player and the P5050, P5100, and P5200 Professional Series Players. Other players can be grouped with these models to expand AirPlay 2 streams into even more areas of the home.

Check pricing with distributor

<https://www.legrand.us/nuvo>

Nuvo

Nuvo 8" Passive Subwoofers and Digital Amplifiers

Nuvo's family of 8-inch in-ceiling and in-wall passive subwoofers and matching digital amplifiers are optimized for small, medium, and large home theaters and audio installations. The three compact single and dual subwoofers deliver a powerful, low-frequency impact while the wall and rack-mount amplifiers are packed with convenience features for maximum versatility.

Check pricing with distributor

<http://bit.ly/NuvoSubs>

Nuvo

P600 DIN Rail Player Kit

The Nuvo P600 DIN Rail Three-Zone Player Kit includes everything needed for a complete three-zone streaming audio system, including three P600 DIN Rail Players, a PW1060 24VDC power supply, Luxul five-port desktop Gigabit Ethernet switch, On-Q half-width DIN rail bracket, P600 Power Adapter Cables pack, and On-Q Ethernet cables bundle.

Check pricing with distributor

<http://bit.ly/NuvoSubs>

Nuvo

Player Portfolio

The world of music in the palm of your hand.

Player Portfolio offers true listening freedom with built-in access to endless music options. Play Pandora in your kitchen, iTunes in the den, or the same song throughout the entire house – all from a single, intuitive app. With flexible wired and wireless solutions and seamless integration into advanced control systems, Player Portfolio is the perfect fit for any home.

Check pricing with distributor

<https://www.legrand.us/nuvo/player-portfolio.aspx>

Nuvo

Professional Series Players

Designed exclusively for integrators, the Professional Series Players are purpose-built for custom audio installations. They offer built-in access to endless music options including the most popular streaming music services and networked music collections. They can be hard-wired with other Players for centralized integration and system scalability. Offering quick installation, easy setup, convenient control options, and simplified integration with leading automation systems.

Check pricing with distributor

<https://www.legrand.us/search.aspx?q=professional+series+player>

Nuvo

Series Two, Four, and Six Speakers

Nuvo Series Two, Four, and Six Speakers are manufactured with quality components and materials for unprecedented performance in any space. With a selection of in-wall, in-ceiling, and outdoor speakers that install easily and seamlessly blend into any room, the line offers impeccable sound quality that satisfies even the most discriminating audiophile.

Check pricing with distributor

<https://www.legrand.us/nuvospeakers.aspx>

HOME THEATER TRENDS

peerless-AV®

Peerless-AV Neptune™ Shade Series Outdoor TVs



The Neptune™ Shade Series Outdoor TV is an all-season solution for outdoor entertainment and living, brought to you by Peerless-AV®. This outdoor TV is all weather rated, maintenance-free, and has an operating temperature range of -22°F to 122°F (-30°C to 50°C). With 4K resolution and an IPS panel, Neptune meets the full UHD specifications, providing exceptional color and video quality from any viewing angle. The input compartment and built-in IR repeater provide safe storage and IR control for small video equipment. A FREE Outdoor Tilting TV Wall Mount (\$199 USD value) is included with every purchase to provide a secure installation. Whether you want an outdoor TV on your backyard patio or under the gazebo, quality outdoor entertainment is now a reality with Neptune. Choose between 55", 65", or 75" TV sizes.

<https://neptunetv.com/products/outdoortvs>

BenQ LK936ST Simulation Laser Projector

Powered by BenQ's revolutionary laser technology, LK936ST true 4K resolution and 5,100 ANSI lumen brightness delivers stunning clarity with a stratospherically high contrast ratio for true blacks, vividly rich colors, and fine subtle details. LK936ST's projection utilizes a dual color wheel system covering unparalleled 92% of the Rec.709 color gamut.

\$5,849

<https://www.benq.com/en-us/business/contact-us.html>

HOSPITALITY

Barix RetailPlayer

Barix's scalable RetailPlayer solution lets retail, hospitality, and corporate customers easily and securely manage streamed music and messages across multiple locations over the internet. Robust playout hardware uses advanced buffer technology for resilience to varying internet performance, while the RetailPlayer Portal provides centralized management through a browser or mobile device.

Pricing available on request

<https://www.barix.com/retailplayer/>

Hall Technologies HIVE Control

The industry's first cloud-based AV control platform engineered from the cloud down. Our system leverages the best in modern IoT, legacy control, and automation systems and delivers superior end-to-end AV solutions. We've improved the industry's three major pillars in control software, interface, and hardware with this scalable and affordable solution.

<https://halltechav.com/hive-control/>

HOUSE OF WORSHIP

Barix

AudioPoint 3.0

Streaming to mobile listeners with the lowest possible latency, Barix's AudioPoint 3.0 audio-to-mobile platform brings IP audio delivery to digital signage and live presentations. Combining powerful hardware with free iOS and Android apps, it streams audio to smartphones and mobile devices over local Wi-Fi in near-perfect synchronization with associated visuals.

Price available on request

<https://www.barix.com/audio-point>

LEA Professional

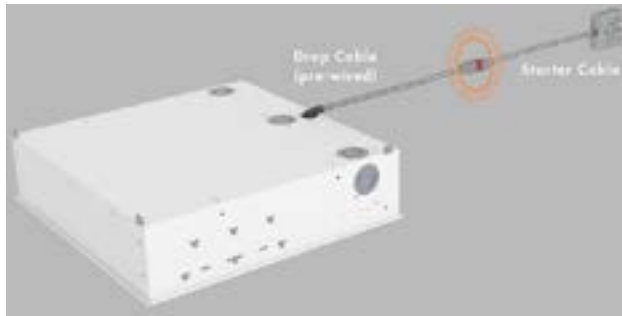
LEA Professional Cloud

LEA's Cloud platform gives integrators powerful, reliable, and secure remote monitoring and control capabilities when used with the CONNECTSERIES of IoT-Enabled professional amplifiers. By leveraging AWS, integrators can access and control their Connect Series amplifiers from anywhere in the world delivering greater visibility, easier troubleshooting and fewer on-site maintenance requirements.

<https://leaprofessional.com/products/leaprofessional-cloud/>



FSR Inc Ceiling Boxes with Pre-wired Modular Linx System



With the MLS pre-wired ceiling boxes, the electrical contractor can install and power the MLS starter cable at any time during the initial construction phase. The CB-MLS eliminates coordinating return visits to the site to connect AC to the ceiling box after the AV contractor completes hanging the unit. The AV contractor will now be able to complete the AV install without multiple trips to the site. They can mount the unit, install the AV equipment, wire, and test without waiting for the electrical contractor to connect the AC to the mounted, empty ceiling box.

https://fsrinc.com/fsr-products/product/prewired-ceiling-box/category_pathway-156



KissBox B.V. KissBox Transceivers



KissBoxes are designed as a simple way to transmit-receive control protocol-data like MIDI, DMX, RS232/422/485, LTC-Timecode, Contact-Closure, Analog Control-voltage and more, over standard Ethernet networks. With minimum and controlled latency.

A typical KissBox based control system consists of one or more KissBoxes, a network and a controller running control-software. The controller can be any type of 3rd party IP based software or hardware. A KissBox can be configured to work with many TCP or UDP based IP control protocols (e.g. RTP-MIDI, ArtNet, Modbus). 3rd party applications

can also utilise the simple KISS-protocol to communicate with the KissBox.

KissBox provides an excellent solution for “pipelining” protocols across your network in a Peer-To-Peer fashion as the transceivers are capable of exchanging data with each other without the need of Computers or other types of controllers. Another feature of the KissBox transceivers is the compliance with the IEEE802.3af (Power over Ethernet) standard.

www.kiss-box.com



Shure IntelliMix Room 3.1 with AI Denoiser



Shure IntelliMix® Room DSP software can eliminate the random noises that disrupt meetings. Gone are the clicks, clacks, and clunks that can distract you and throw your meeting off track. Beginning with version 3.1, the IntelliMix Room DSP software includes an AI Denoiser audio processor. Developed using artificial intelligence and machine learning, this powerful algorithm is able to tell the difference between noises and speech, and reduce the noise with virtually no audible effect on the speech – even when the speech and noise overlap.

<https://www.shure.com/imxroom>



Shure Incorporated MXA710 Linear Array Microphone



The MXA710 Linear Array Microphone represents the next evolution in Shure array microphone technology, designed for high-quality audio capture in premium AV conferencing environments. The sleek, linear form factor of the MXA710 allows for placement virtually anywhere in a meeting space, including on a wall, around a display, ceiling, or into a conference room table. Available in two lengths and three colors,

the MXA710 includes proprietary Shure IntelliMix® DSP and Autofocus™ technology that provides all the processing needed for echo and noise-free conference audio.

<https://www.shure.com/en-US/products/microphones/mxa710>



Shure Incorporated MXA910 Ceiling Array Microphone



Harmonious integration leads to more open discussion. An elegant approach to conferencing audio, MXA910 with IntelliMix eliminates all equipment clutter, leaving more room for clarity. Instead of focusing on a microphone's position, you can concentrate on compelling communication.

<https://www.shure.com/en-US/products/microphones/mxa910>



Blustream AMF41W

The AMF41W is an advanced 4K multi-format presentation switch featuring four HDMI, AirPlay and Miracast inputs to a single HDMI output that supports resolutions up to 4K UHD 60Hz 4:2:0/4K 30Hz 4:4:4. It features localized 2.4/5GHz Wi-Fi hotspot, seamless switching, multiview presentation, video scaling, and a web GUI for simple control and configuration. The AMF41W includes auto display control via RS-232, manual, or automated source selection, and control via front panel, RS-232, and TCP/IP.

<https://www.blustream.co.uk/amf41w>



Blustream HEX70ARC-KIT

The new HEX70ARC-KIT extender provides enhanced HDBaseT integration with the latest AV receivers and soundbars. Purpose-built for integrators requiring reliable ARC delivery via both HDMI and optical sources, the device distributes HDMI, ARC, optical audio return, bi-directional IR, and bi-directional power over cable (PoC) up to 40 meters at 4K 60Hz 4:2:0 and 70 meters at 1080p.

<https://www.blustream-us.com/hex70arckit>



Blustream HMXL66ARC and HMXL88ARC

Using color space conversion (CSC) technology, the 6x6 HMXL66ARC and 8x8 HMXL88ARC HDBaseT matrixes support 4K 60Hz 4:4:4 resolutions over distances of 40 meters via a single CAT-6 cable. Both devices offer advanced audio features designed specifically for integrating all AV sources in the system. Each features an integrated audio matrix for enhanced audio routing, and via ARC, enables the audio from displays and all other sources to be embedded and routed through the system at the user's discretion.

<https://www.blustream-us.com/8x8-hdbaset-matrix>



Blustream RX70CS

Designed to work in conjunction with the new matrixes, the RX70CS HDBaseT CSC receiver extends HDMI, bi-directional IR, and RS-232 signals up to 40 meters at 4K 18Gbps and up to 70 meters at 1080p. The device supports HDMI 2.0 and enables ARC control when used with the HMXL66ARC, HMXL88ARC, or other compatible Blustream solutions. In addition, the RX70CS supports simultaneous analog stereo and optical TOSLINK audio breakout.

<https://www.blustream-us.com/rx70cs>



Blustream SW41HDBT

The SW41HDBT four-way HDMI 2.0 4K 60Hz 4:4:4 HDBaseT switch is ideal for boardrooms, classrooms, and huddle spaces. Using CSC technology, the device delivers HDMI and HDBaseT inputs to simultaneous HDMI/HDBaseT outputs. The versatile SW41HDBT provides enhanced features, including PoC to power-connected Blustream transmitter and receiver products; a web GUI for configuration and source and display control via CEC; manual or automated source selection; RS-232 pass-through; and control via the front panel, IR, RS-232, and TCP/IP.

<https://www.blustream-us.com/sw41hdbt>



Listen Technologies Listen Combo Compliance Systems

Listen Combo Compliance Systems combine traditional assistive listening systems with audio-over-Wi-Fi technology to help venues meet ADA requirements while also using the latest technology their guests will love. Multiple-channel audio is delivered directly to guest's smartphones through a free, customizable app (Listen EVERYWHERE), or through a venue-provided radio frequency (ListenRF) or infrared (ListenIR) receiver. Guests who use their Android or iOS devices to stream venue-sourced audio can listen with headphones or earbuds, or directly to Bluetooth-enabled hearing aids. Combo Compliance Systems ensure all guests have an exceptional listening experience whether they use their own device or venue-provided receiver.

Explore combo compliant systems and request a quote:

<https://www.listentech.com/combo-compliance-systems/>

Comprehensive Connectivity Company MicroFlex Cat6 Cables

Comprehensive's MicroFlex Pro AV/IT CAT6 Snagless Patch Cables are slim, durable and built to last. What makes these cables so unique is they are engineered using high quality 30 Gauge twisted pair construction, a 40% reduction in diameter compared to standard Cat6 cables.

\$5.99

<https://comprehensiveco.com/store/c/25128-MicroFlex-Cat6-Snagless-Ethernet-Cables.html>

Comprehensive Connectivity Company Pro AV/IT HDBaseT 4K 18G Single Gang HDMI, USB 2.0 and Audio Wall Plate Extender Kit up to 230ft

Extend 4K HDMI, Audio and USB 2.0 High Speed Signals over a Single UTP Cable up to 230ft.

Comprehensive's CHE-HDBTW121K Wall Plate Extender kit was designed to extend HDMI, analog audio and high speed USB 2.0 signals up to 230ft over Cat5e or Cat6 cables.

\$679.99

<https://comprehensiveco.com/products/pro-av-it-hdbaset-4k-18g-single-gang-hdmi-usb-2-0-and-audio-wall-plate-extender-kit-up-to-230ft.html>

Comprehensive Connectivity Company

Pro AV/IT HDBaseT 4K60 HDMI, USB-C, USB 2.0, Audio over CATx Single Gang Wall Plate Extender TX/RX Kit up to 230ft

Extend 4K HDMI, Audio and USB 2.0 High Speed Signals over a Single UTP Cable up to 230ft. Comprehensive's CHE-HDBTWP125MC is a 2x1 4K@60Hz Wall Plate Extender with HDMI and USB-C inputs. The USB-C input provides an ideal AV interface for connecting Apple® notebooks, Windows® PC's, smartphones and tablets.

\$699.99

<https://comprehensiveco.com/products/pro-av-it-hdbaset-4k60-hdmi-usb-c-usb-2-0-audio-over-catx-single-gang-wall-plate-extender-tx-rx-kit-up-to-230ft.html>

IHSE USA

Draco MultiView 4K60

The Draco MultiView 4K60 allows visualization scenarios common in air traffic control and control room applications, including 4:1 / 4:2 Single-Head or Dual-Head. The individual screens can be arranged freely and displayed in different modes: Fullscreen Mode, Quadscreen Mode (Quad Mode), Picture-in-Picture Mode (PiP Mode), Preview Mode, 2+2 Mode and Free Mode. Presets allow instant switching between the desired layouts.

Contact for pricing

<https://www.ihse.com/draco-multiview-4k60/>

IHSE USA

Draco tera flex KVM matrix systems

Draco tera flex KVM matrix systems bring advanced features normally found in our larger scale matrix frames. Ranging from 16 ports to 160 ports in compact sizes available in 1RU, 2RU, and 4RU frame sizes. Expansion modules can be mixed between Cat-X and fiber optic types, in either 1Gbit/s or 3 Gbit/s bandwidth, and multiple switches can be interconnected easily using the optional matrix grid technology. The Draco tera flex incorporates several advanced features from the Draco tera enterprise series, including SNMPv3, LDAPS, multilingual on-screen display, encrypted communication for maximum security, and fast booting. The switch's modular structure permits the simple interchange of individual components and paves the way for future expansion.

Contact for pricing

<https://www.ihse.com/draco-tera-flex/>

IHSE USA

Draco ultra DisplayPort 1.1 dual-head KVM extender

The Draco ultra DisplayPort 1.1 dual-head KVM extender enables visually lossless extension of two high-resolution DisplayPort signals, a keyboard and mouse connected over a single duplex fiber optic or Cat X cable. This simplifies installations and lowers costs by reducing cable requirements and matrix ports. Fully digital video signals can be transmitted in 4K resolutions up to 4096x2160 and UHD resolutions to 3840x2160, while embedded audio signals are directly reproduced by connected displays with integrated speakers. In combination with optional analog or digital audio modules, the stereo signal can be extracted and output separately.

Contact for pricing

<https://www.ihse.com/draco-vario-displayport-1-1-dh/>

IHSE USA

Draco vario ultra HDMI 2.0 extender

The Draco vario ultra HDMI 2.0 extender gives users real-time access to HDMI computers from a remote workstation – including monitor, keyboard, mouse, loudspeakers, and other peripheral devices – over a duplex LC fiber connection. The integrated Fraunhofer IIS Lici® codec enables the transfer of fully digital video at 4K resolutions up to 4096x2160 at 60Hz. The KVM extender also supports audio transmission via the HDMI interface.

Contact for pricing

<https://www.ihse.com/draco-vario-ultra-hdmi-2-0/>

KissBox BV

KissBox CM-MIDI2

The KissBox CM-MIDI2 transceiver integrates both the powerful RTP-Midi implementation of our MIDI2TR transceiver, and the USB-Midi communication standard on many musical products. The CM-MIDI2 is ideal for musical applications where high speed communication between USB and Ethernet RTP-Midi is needed.

\$495.00

<https://kiss-box.nl/product-archive/cm-midi2/>

KissBox BV

KissBox DMX1TR

The KissBox DMX1TR Transceiver allows you to use a standard Ethernet network to distribute the DMX-512 protocol. Configure it as an external DMX interface for a PC, Mac or lighting controller, or set-up multiple DMX1TR units to manage up to 64 universes of DMX across the network.

\$560.00

<https://kiss-box.nl/product-archive/dmx1tr-dmx-512-transceiver/>

KissBox BV

KissBox IO3CC

The KissBox IO3CC can hold 3 standard Kiss-Box I/O-Cards, allowing control over up to 24 I/O points. Input signals received on input cards will be translated to Ethernet UDP/IP or TCP/IP packets and send out over the network. Received Network messages translated to output signals on the selected output cards.

\$378.00

<https://kiss-box.nl/product-archive/io3cc-3-slot-io-cardframe/>

KissBox BV

KissBox IO8CC

The KissBox IO8CC can hold 8 standard Kiss-Box I/O-Cards, allowing control over up to 64 I/O points. Input signals received on input cards will be translated to Ethernet UDP/IP or TCP/IP packets and send out over the network. Received Network messages translate to output signals on the selected output cards.

\$417.00

<https://kiss-box.nl/product-archive/io3cc-3-slot-io-cardframe/>

KissBox BV **KissBox MIDI2TR**

The KissBox MIDI2TR Transceiver allows you to use a standard Ethernet network to send and receive. Multiple MIDI2TR units can distribute data between them, and/or interface with controllers on the network. A single MIDI2TR can receive and merge the control data of up to 8 different controllers.

\$587.00

<https://kiss-box.nl/product-archive/midi2tr-dual-midirtp-midi-transceiver/>

KissBox BV **KissBox RS2TR**

The KissBox RS2TR transceiver allows for peer-to-peer transmission of RS 232/422/485 signals over standard IP-Ethernet networks without the need for a controlling device. The data can be send as TCP or UDP packages. Serial Port extension for any OS is also possible with our simple to implement IP protocol.

\$560.00

<https://kiss-box.nl/product-archive/rs2tr-high-performance-dual-serial-transceiver/>

KissBox BV **KissBox TC2TR**

The KissBox TC2TR Transceiver allows you to use a standard Ethernet network to distribute Smpte LTC Time-code and MTC Midi Time-code to any part of your system. Multiple TC2TR units can distribute Time-Code between them, and/or interface with controllers on the network.

\$640.00

<https://kiss-box.nl/product-archive/tc2tr-ltc-mtcmidi-tranceiver/>

Listen Technologies **Listen EVERYWHERE**

Listen EVERYWHERE streams audio over Wi-Fi to smartphones via a free app. Users can listen to venue-sourced audio from their Android and iOS devices with headphones or earbuds, or directly to Bluetooth-enabled hearing aids. Teachers and venue managers can customize the app to feature branded videos, documents, and promotions.

<https://www.listentech.com/listen-everywhere/>

Listen Technologies **Listen NAVILUTION**

Listen NAVILUTION is a GPS-triggered commentary system that delivers audio to passengers in different languages and topics. The system helps tour and transportation providers record engaging and useful audio content that is prompted to play for guests as vehicles travel through pre-selected trigger zones. Internet connectivity not required en route.

<https://www.listentech.com/listen-navilution/>

Listen Technologies

ListenIR

ListenIR uses infrared (IR) technology to transmit audio to listeners without amplifying ambient noise. Users wear a small venue-provided receiver and experience exceptional sound clarity through headphones or earbuds. ListenIR offers secure assistive listening and language interpretation and is ideal when confidentiality is essential or in close-proximity to other rooms.

<https://www.listentech.com/listenir/>

Listen Technologies

ListenRF

ListenRF uses radio frequency (RF) technology to transmit audio to listeners without amplifying noise. This affordable assistive listening and language interpretation solution provides excellent sound quality. Ideal for large spaces, including houses of worship, classrooms, theaters, and stadiums; ListenRF is the only system providing both 72 and 216 MHz frequencies.

<https://www.listentech.com/listenrf/>

Listen Technologies

ListenTALK

ListenTALK enables two-way communication in any environment. The system features a small transceiver (combination transmitter/receiver), accompanied by venue-provided or users' own headphones or earbuds with built-in mic. Users push a button on the transceiver to speak to the leader or group. Ideal for tours, classrooms and factories; simplifies simultaneous interpretation.

<https://www.listentech.com/listentalk/>

Show Sage LLC

Dataton Academy WATCHOUT Training

Dataton Academy training sessions are normally held regularly in our Chicago offices and at other locations around North America. This two-day class covers basic and advanced topics in an interactive and hands-on environment. A new online-based training is also being developed and will be available in the near future.

<https://www.dataton.com/us/training-support/academy>

Show Sage LLC

Lightware Signal Management Solutions

Lightware products help signals get where they are supposed to go cleanly. Their families of extenders, matrices, switchers, distribution amplifiers, and AV over IP solutions make A/V signal distribution easy to set up and maintain.

<https://lightware.com>

Show Sage LLC PIXILAB Blocks

Blocks is software for producing and managing experiences for museums, exhibitions, visitor centers and corporate presentations. It features a unique mix of content and display management, control system capabilities, interactive presentation and mobile guide functions. Blocks is also integrated to work with WATCHOUT to start servers, projectors, and auxiliary timelines.

<https://showsage.com/pixilab-blocks>

Show Sage LLC Show*Server™ Media Servers

Preconfigured and tuned for out-of-the-box use with WATCHOUT, our Show*Server media servers are built on the latest high-throughput architectures. They support 100% frame synchronization and a wide array of live capture and audio output options. Our servers offer cost effective alternatives to proprietary hardware for many media playback applications.

<https://showsage.com/watchout/#showserver>

Show Sage LLC Show*Station™ Production Workstations

Our Show*Station production workstations are specifically designed for production and programming of robust content, with 2TB or more of media storage. They are available in notebook, rack mount, and portable MICRO form factors.

<https://showsage.com/watchout/#showstation>

Show Sage LLC WATCHOUT

WATCHOUT is an award-winning multimedia creation and display tool. With it, you can orchestrate stills, animations, graphics, video, 3D UV maps, sound, text and live feeds into a single impressive show for playback on multiple display areas, edge-blended, mapped, or in an array of your choice.

<https://showsage.com/watchout#watchout>

Show Sage LLC WATCHPAX 40 & 60 Media Servers

Dataton's media server range is the perfect fit for a wide number of applications. Compact and smart, the WATCHPAX 40 offers four times 4K playback. The WATCHPAX 60 series exceeds the requirements of the toughest environments. It supports uncompressed 4K playback, and offers 4 to 12 outputs.

<https://showsage.com/watchout/#watchpax>

SurgeX UPS + Isolation Transformer

The SurgeX UPS + Isolation Transformer represents a complete power management solution featuring continuous power supply, line-interactive technology and power conditioning. Available in three models, the compact solution brings the benefits of a large-format UPS to the rack, combined with a low-impedance isolation transformer to constantly filter and condition power.

\$3,329

<https://www.ametekesp.com/surgex/ups-transformer/ups-transformer-120-208v>



AtlasIED

IPX

Consistent, coherent and compliant visual and audio communications when and where you need it! The expansive IPX family is the evolution of the AtlasIED IP endpoint category. The IPX family of products can provide floor, building, or campus wide notifications, and critical alerts including public address and emergency communications. These endpoints are easily and quickly installed utilizing existing IT infrastructure with the additional enhancements of modern styling, improved intelligibility and an upgraded high-resolution visual display.

<https://www.atlasied.com/ipx-series-overview>

LIGHTING



Legrand BCS Design Center 4.2



Design Center 4.2 is the first of a series of software releases focused on Vantage's LHUMAN Human Centric Lighting solution that makes programming HCL easier than ever. New features will allow for better control of color-tunable LED fixtures, providing homeowners with a better experience while simplifying the programming process.

<https://www.legrand.us/lighting-controls-and-systems/software-and-configuration-tools/design-center/p/design-center>



Legrand BCS EasyTouch Glass Keypad



EasyTouch Glass is a modular keypad station with contemporary aesthetics and functionality that complements every home's design. Available in one through five-programmable laser-engraved buttons for different smart home scenes, the EasyTouch Glass modular button, faceplate, and trim design provides flexibility to mix or match colors.

<https://www.legrand.us/lighting-controls-and-systems/vantage-controls/keypads-and-user-interfaces/easytouch-glass-keypad/p/easytouch-glass>



Legrand BCS LHUMAN



Easily programmed using Vantage's Design Center 4.2 software, the LHUMAN Human Centric Lighting solution combines lighting controls, motorized shading, and color-tunable light fixtures to harness natural light when available— or render it artificially when it's not.

<https://www.legrand.us/vantage/lhuman>

Hunter Douglas PowerView+

Ideal for custom builds and renovations, Hunter Douglas PowerView+ is a premium low-voltage, hardwired system with ultra-quiet motors for shade control through the PowerView App, Pebble Remote, or smart home system for Designer Roller Shades, Designer Screen Shades, and Pirouette and Silhouette Window Shadings.

www.hunterdouglas.com

Hunter Douglas Rechargeable Battery Wand

The Rechargeable Battery Wand brings convenient, long-lasting, sustainable power to Hunter Douglas PowerView Automation shading products. Discreetly concealed behind the headrail, yet easy to remove, recharge, and replace, the slim Rechargeable Battery Wand doesn't mar the beauty of window treatments.

www.hunterdouglas.com

LynTec Lighting Control Panelboard Series

LynTec's LCP Lighting Control Panelboards are tailored for lighting applications. Built on the same internationally recognized Square D G3 Powerlink™ controllable circuit breaker platform as the patented RPC Power Control Series, the LCP includes the lighting control features these projects require and increased installation flexibility.

Contact for pricing

www.lyntec.com

LynTec Narrow Profile Panelboards

LynTec's Narrow Profile Panels utilizes the same Square D Powerlink motorized circuit breaker hardware platform as the standard RPC and LCP panels but requires significantly less horizontal wall-space. Only a mere 9 inches wide, the column-width panels pack in performance, housing up to 42 controllable circuit breakers.

Contact for pricing

https://lyntec.com/wp-content/uploads/2021/02/NARROW_SalesSheet.pdf

Orro Orro One Pro

The Orro Smart Living System transforms any home with automatic, human-centric and wellness-oriented intelligent lighting, home-wide control, energy savings and home monitoring capabilities. With Orro, offer your customers a unified smart home solution that aligns with any budget, unlocking new opportunities to sell more and grow your business with the increasing demand for professionally-installed systems at mainstream price points.

\$299

www.getorro.com/shop

LIVE STAGING & EVENTS

INFILED

DB Series

dvled great for indoor rental/stagging events, meetings, exhibitions, and stage performances. This products offers the deepest black colors, and ultimate in high-contrast image quality with dot pitches ranging from 1.5mm to 3.4mm. This curvable, and light-weight display is easy to maintain with a cable-free connection system.

Contact for pricing

<https://www.infiled.com/PRODUCTS/Rental-led-display/432.html>

INFILED

X Series

dvled great for indoor rental/stagging events, stage performances, public squares, shopping malls, stadiums, and hotels.. This product is ultra thin and offers smooth curves and can also be angled for tight corner applications. This high bright, and light-weight dvLED come in dot pitches ranging from 2.5 to 3.9mm.

Contact for pricing

<https://www.infiled.com/PRODUCTS/Rental-led-display/197.html>

Show Sage LLC

Merging Technologies Ovation

Ovation is the Media Server and Sequencer. Since its introduction, Ovation's ability to handle many tracks of audio and route to many outputs, has made it the perfect tool for immersive audio. It is further enhanced by interfacing intelligently with industry standard 3D audio renderers, show control and video servers.

Contact for pricing

<https://showsage.com/merging-technologies-ovation/>

Show Sage LLC

WATCHOUT

WATCHOUT is an award-winning multimedia creation and display tool With it, you can orchestrate stills, animations, graphics, video, 3D UV maps, sound, text and live feeds into a single impressive show for playback on multiple display areas, edge-blended, mapped, or in an array of your choice.

<https://showsage.com/watchout#watchout>

MICROPHONES

SHURE

Shure Incorporated MXA710 Linear Array Microphone



The MXA710 Linear Array Microphone represents the next evolution in Shure array microphone technology, designed for high-quality audio capture in premium AV conferencing environments. The sleek, linear form factor of the MXA710 allows for placement virtually anywhere in a meeting space, including on a wall, around a display, ceiling, or into a conference room table. Available in two lengths and three colors,

the MXA710 includes proprietary Shure IntelliMix® DSP and Autofocus™ technology that provides all the processing needed for echo and noise-free conference audio.

<https://www.shure.com/en-US/products/microphones/mxa710>

SHURE

Shure Incorporated MXA910 Ceiling Array Microphone



Harmonious integration leads to more open discussion. An elegant approach to conferencing audio, MXA910 with IntelliMix eliminates all equipment clutter, leaving more room for clarity. Instead of focusing on a microphone's position, you can concentrate on compelling communication.

<https://www.shure.com/en-US/products/microphones/mxa910>

Yamaha Unified Communications ADECIA

ADECIA, a family of communication products designed to work together seamlessly to provide a complete and customizable audio solution for any classroom or meeting space. Comprising the brand-new multi-beamforming RM-CG ceiling microphone and RM-CR audio processor, as well as Yamaha's long-trusted PoE switches and VXL Series line array speakers.

<https://uc.yamaha.com/products/microphone-systems/adecia/>

MOUNTS & ENCLOSURES



AtlasIED Texas Tough Racks

Texas Tough is a premier series of showcase equipment racks and cabinets offering stylish design and visual appeal in multiple heights, from 20RU to 45RU, and 25" and 30" depths. Texas Tough racks are the first racks to incorporate built-in device fault notification. Available with customizable crowns for branding, technical support contact information, or other quick reference requirements.

<https://www.atlasied.com/texas-tough-series>



Chief Fusion™ Extending Pull-Out Accessory for Extra-Large Displays



The Fusion Extra-Large Pull Out Accessory (FCAXV1U) allows users to extend displays 11.54 inches from the wall while maintaining the same depth as previous Fusion pull-out mounts (FCAV1U). The unit is compatible with Fusion XSM1U and XTM1U Extra-Large Micro-Adjustable Static and Tilt Mounts for installation of 80-inch+ displays up to 250 lbs.

Check with distributor for pricing

<https://www.legrandav.com/products/chief/accessories/display/fusion/fcaxv1u/fcaxv1u>



Chief FUSION™ Large Ceiling Mounted Menu Board Solutions



Chief's FUSION ceiling mounted solutions make it possible to construct menu boards in prominent locations where walls aren't available. Comes in 2 x 1 & 3 x 1 arrangements with options for landscape and portrait orientation. Combine to easily create longer menu boards. Great for digital signage installations.

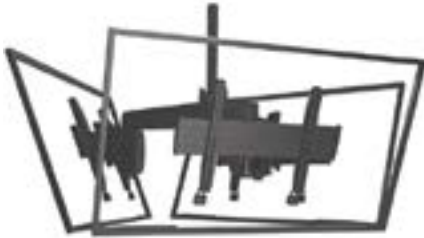
Check with distributor for pricing

https://www.legrandav.com/en/products/chief/mounts/display/ceiling/lcm_menu_board

MOUNTS & ENCLOSURES



Chief Fusion™ LCM Large Ceiling Multi-Directional Solutions



Chief's Fusion Ceiling Multi-Directional solutions create 360 viewing capability with triple- and quad-mount systems. Both safely support multiple displays from a single column drop while maintaining the installer-friendly features of the single screen Fusion mounts.

Check with distributor for pricing

https://www.legrandav.com/en/products/chief/mounts/display/ceiling/lcm_multi_directional



Chief FUSION™ Micro-Adjustable Large Ceiling Mounted Video Wall Solutions



Chief's FUSION ceiling mounted solutions make it possible to construct video walls in prominent locations where walls aren't available. Comes in 2 x 2, 3 x 2 and 3 x 3 arrangements. Great for digital signage installations.

Check with distributor for pricing

https://www.legrandav.com/en/products/chief/mounts/display/ceiling/lcm_multi_display



Chief K1D Series Monitor Arm Mounts



The enhanced K1D Dynamic Height-Adjustable Desk Clamp Mounts are the perfect monitor mount solutions for the home. Key enhancements have been made to Chief's patented Centris™ Extreme Tilt technology for effortless fingertip monitor positioning. Their enhanced, 3-step installation and quick-release monitor interface allows for easy mounting and maintenance, with included tool storage in the updated base. The monitor mounts float displays in the optimal ergonomic position above your work surface to create a more productive and comfortable workspace.

Check with distributor for pricing

https://www.legrandav.com/en/products/chief/mounts/monitor/desk_mounts/k1d

MOUNTS & ENCLOSURES



Chief Koncīs™ Series monitor arm mounts



Available in single- and dual-monitor configurations, Chief Koncīs™ Series monitor arm mounts combine sleek aesthetics with advanced functionality like premium gas springs and Centris® Extreme Tilt technology to ensure optimal productivity in the home office – all at a budget-friendly price point.

See *Legrand dealer portal* for pricing

https://www.legrandav.com/products/chief/mounts/monitor/desk_mounts/dma



Chief Proximity® In-Wall Storage Solutions



Chief's PAC525, PAC526, and PAC527L adjustable-depth, in-wall storage boxes featuring Middle Atlantic's Lever Lock® technology offer break-away edges for compatibility with both standard 3.5-inch and 2.5-inch studs. The boxes' multi-level, multi-sectioned Lever Lock plates make it easier for installers to arrange components in all three dimensions of the storage space and work around difficult port locations on AV equipment.

Check with distributor for pricing

https://www.legrandav.com/products/chief/accessories/display/in-wall_accessories/pac525



Draper, Inc. Foundation®

Wavy walls, uneven floors, and getting parts onsite are a few of the headaches video wall installers face. Draper® designed Foundation® Mount System with those installers in mind.

All Foundation parts are sized for easy access to the installation site. A precise design and Z-axis adjustment at the wall and the panel produce a perfectly flat video wall. Angled LED panel mounting slots minimize the amount of contact between LED modules. Unlike so-called “universal” mounts, the Foundation comes with a brand-specific interface to attach the LED panel to our structure, so no onsite cutting or modifications are needed.

Starts at \$1,557

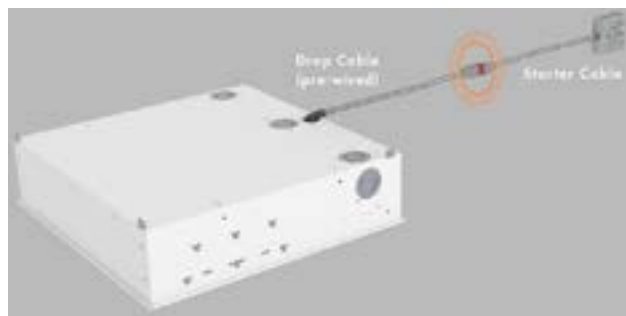
<https://www.draperinc.com/mountsstructures/foundation/>

MOUNTS & ENCLOSURES



FSR Inc

Ceiling Boxes with Pre-wired Modular Linx System



With the MLS pre-wired ceiling boxes, the electrical contractor can install and power the MLS starter cable at any time during the initial construction phase. The CB-MLS eliminates coordinating return visits to the site to connect AC to the ceiling box after the AV contractor completes hanging the unit. The AV contractor will now be able to complete the AV install without multiple trips to the site. They can mount the unit, install the AV equipment, wire, and test without waiting for the electrical contractor to connect the AC to the mounted, empty ceiling box.

https://fsrinc.com/fsr-products/product/prewired-ceiling-box/category_pathway-156



Middle Atlantic Products Forward



Forward is designed around an innovative rackrail and Middle Atlantic's patented universal mounting pattern for quick, tool-less installation. Forward includes cable management solutions; blank and vent panels; and more. Forward ships with Middle Atlantic's BGR Series enclosure, a standard for a new installation experience within the industry's No.1 AV enclosure.

Check with distributor for pricing

<https://www.middleatlantic.com/forward.aspx>



Middle Atlantic Products Hub



Designed to maximize equipment storage and cable management, Hub is a technology-ready, all-in-one furniture solution for UC&C environments including huddle, active learning, and videoconferencing spaces. Available in numerous colors and configurations, each Hub consists of a TechPed™ Technology Pedestal featuring rackmounting space, an integrated power strip and Lever Lock™ accessories for small device mounting, a tabletop that includes an InteGreat™ table box with two HDMI cable retractors, and a display wall mount with power strip.

Check with distributor for pricing

<https://www.middleatlantic.com/hub.aspx>

MOUNTS & ENCLOSURES



Middle Atlantic Products L5 Series Lecterns



Middle Atlantic's L5 Lecterns – the industry's most integration-friendly – combine the strength and features of a rack with the elegant look of custom furniture. Their modern designs, in an array of contemporary colors and wood finishes with flexible installation options enable integrators to integrate technology seamlessly while matching any decor. Using the Frame to Furniture™ approach, the series streamlines installations saving time and money. Available in Flat or Turret style, three widths and various cut out options, the L5 Series includes everything needed for a successful installation.

Check with distributor for pricing

<https://www.middleatlantic.com/products/technical-furniture/lecterns/l5-series-lecterns.aspx>



Middle Atlantic Products Universal TechBox™



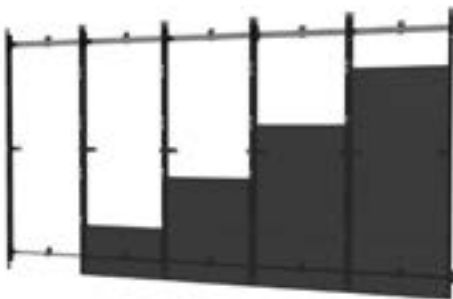
Middle Atlantic's Universal TechBox™ (UTB) discreetly mounts AV equipment anywhere it's needed – under an existing table surface or to another out-of-sight surface. It's perfect for storing all-in-one presentation and control solutions suitable for small- to mid-sized huddle spaces, conference rooms, and other collaboration environments where space may be at a premium. The low-profile, easy-to-install design provides the flexibility to expand from one to two rackspaces, while also providing small device mounting options.

Check with distributor for pricing

<https://www.middleatlantic.com/products/racks-enclosures/specialty-racks/utb-series.aspx>



Peerless-AV SEAMLESS Kitted Series Flat dvLED Mounting Systems



Peerless-AV's SEAMLESS Kitted Series Flat dvLED Mounting Systems are designed exclusively for leading direct view LED display brands, offering slim, space-saving, and aesthetically appealing designs for multiple configurations. With integrated cable management, easy-hang hardware, and a lightweight aluminum frame, integrators can quickly and easily build the perfect video wall. Peerless-AV® also offers start to finish support through the SEAMLESS dvLED Video Wall Integration Program. The Peerless-AV dvLED Solutions Team is there every step of the way to ensure every customer receives SEAMLESS product support and service.

www.peerless-av.com/SEAMLESS

MOUNTS & ENCLOSURES

peerless-AV®

Peerless-AV

Universal Outdoor Digital Menu Boards



Increase drive-thru sales and promote order efficiency with Peerless-AV's universal Outdoor Digital Menu Boards, designed to support leading 55" outdoor display brands. These all-weather rated, outdoor units offer a low operating cost, modular design, and an easy, two-man installation process. By making the switch to digital, with Peerless-AV's Outdoor Digital Menu Boards, you will no longer need to manually update static menu content throughout the day. Instead, the digital content can be updated remotely and in real-time, creating a seamless drive-thru experience for customers and a more efficient restaurant.

<https://www.peerless-av.com/products/kof555>

Comprehensive Connectivity Company

USB-C, USB 2.0, 3.0 and HDMI Pass-Through Wall Plates with Pigtailed

Comprehensive's pass-through wall plates offer a clean and professional appearance and help reduce cable clutter in professional spaces. The pass-through ports are professional grade for repeated use in offices, meeting spaces, classrooms, houses of worship, or wherever A/V I room connectivity is required.

\$24.99

<https://comprehensiveco.com/store/c/15471-Decorative-Wall/Faceplates.html>

On-Q

AC1050 five-inch mounting plate

For wired and wireless low-voltage systems, the AC1050 five-inch mounting plate allows a variety of third-party devices to be mounted into the enclosures. Designed to connect a Wi-Fi router or switch to wired networking locations throughout the home.

<https://www.legrand.us/onq/structured-wiring/enclosures/standard/ac1050.aspx>

On-Q

AC1060 Shelf Mounting Bracket

Designed to offer ultimate flexibility inside an enclosure, the AC1060 Shelf Mounting Bracket is rated to hold devices weighing up to 10 pounds. It can be installed in a standard or an inverted orientation (plastic enclosures only) and is compatible with Legrand's plastic and metal enclosures such as the On-Q Dual Purpose Enclosures and the SANUS In-Wall Media Boxes.

<https://www.legrand.us/audiovisual/structured-wiring-enclosures/enclosure-accessories-and-cable-management/shelf-mounting-bracket-for-structured-wiring-enclosures/p/ac1060>

On-Q

On-Q Dual-Purpose In-Wall Enclosures

Available in 9-inch and 17-inch form factors, On-Q dual-purpose In-Wall Enclosures can be used to house cable boxes, streaming players, and more behind a TV, or as Wi-Fi transparent enclosure for structured wiring, providing a centralized area to store video, voice, and data components.

\$69.99

<https://www.legrand.us/on-q/dual-purpose-enclosures>

MOUNTS & ENCLOSURES

On-Q

WiFi-Ready Plastic Structured Wiring Media Enclosures

Made in the USA, On-Q's enhanced plastic enclosures feature a new reversible hinged door with toolless installation, free integrated trim ring for concealing imperfections in drywall, added structural rigidity, locking capabilities, and other design enhancements that help residential installers save valuable time and money while providing a clean, centralized location for a home's wired and wireless services. The 20-inch, 30-inch, and 42-inch enclosures are made from UL-rated ABS plastic, allowing installers to secure devices such as wireless routers, access points, or service provider equipment in the cabinet without degrading network performance.

Check with distributor for pricing

<https://www.legrand.us>

PowerHouse Alliance

A2V Flat Panel TV Mounts

The A2V Flat Panel TV Mounts come in different sizes to accommodate flat screen TVs up to 70-inches. Integrators can choose from three configurations: standard fixed mounts, mounts with full arm motion, or mounts with tilt and swivel. All mounts include post-install leveling.

www.powerhousealliance.com

SANUS

Advanced Full-Motion Premium Series

Functionally and aesthetically modern, SANUS Advanced Full-Motion Premium TV Mounts combine high-end performance and design that incorporates TVs into any home. Featuring a brushed metal exterior and slim profile, the mounts integrate seamlessly with décor, while their FluidMotion design provides unparalleled smoothness and Steady Set functionality eliminates unwanted movement.

https://www.sanus.com/en_US/advanced/

SANUS

SANUS Mounting Solutions for Sonos Arc and Move Speakers

Compatible with most displays from 50 inches to 90 inches, the SANUS Soundbar TV Mount for the Sonos Arc attaches directly to TV mounts, allowing the Arc to move with the display in any direction. Four inches of depth adjustment ensure the Arc's Dolby Atmos speakers and mics are clear and working properly, while active height adjustment provides access to I/O and power ports. The SANUS Extendable Wall Mount Designed for the Sonos Arc attaches directly to the wall and offers 5 inches of depth-adjustment, while extending to provide easy access to I/O and power ports. For a clean installation, the mount features 10 inches of wide-open wall access for power and cable management using the SANUS In-Wall Power Kit for Soundbar + Mounted TV. The SANUS Indoor/Outdoor Custom Mount for the Sonos Move positions the speaker at an ideal listening height while freeing up counter and table space. A grab-and-go design keeps the Move easily transportable, while a cable management spindle below the mount allows excess cord to be hidden away.

https://www.sanus.com/en_US/

MOUNTS & ENCLOSURES

SANUS

SANUS SASB1 Soundbar Mount

The SANUS SASB1 soundbar mount seamlessly integrates your soundbar with your mounted TV. Featuring broad compatibility, the soundbar mount attaches to the back or bottom of soundbars and works with most soundbars up to 20 lbs.

https://www.sanus.com/en_US/products/mounts/sasb1/

SANUS

VLT7 Advanced Tilt 4D TV wall mount

The VLT7 Advanced Tilt 4D TV wall mount allows mounted displays to be tilted in four different directions. 15-degree swivel capabilities and 6.8 inches of extension from the wall allow them to easily access these components and cabling once the display is mounted. The ProSet Plus feature allows for 1-inch post-install height and level adjustment.

\$158.99

https://www.sanus.com/en_US/products/tv-mounts/vlt7/

PROJECTION



Draper, Inc.

Acumen®

Projection conditions vary according to the surrounding environment. That's why the Draper® Acumen® series was designed with maximum flexibility in mind. All Draper viewing surfaces, including 8K-ready, ISF-certified TecVision®, are available with the Acumen, so you can address room and lighting conditions. The Acumen series is available up to 18 feet wide and with a variety of motor options. A rechargeable battery motor goes up to 500 cycles between charges, in sizes to 10' wide. The Acumen's decorative extruded aluminum housing has fewer visible fasteners and complements any room design. The Acumen is covered by an extended 7-year warranty.

Starts at \$1632

<https://www.draperinc.com/projectionscreens/acumen/>



Draper, Inc.

TecVision®

Projection environments can vary widely. Whether dealing with ambient light, projector location, wide seating arrangement, or projector brightness, there's a TecVision® solution to address the issue. All 11 TecVision formulations are Imaging Science Foundation (ISF) certified for color accuracy. TecVision features five ambient light-rejection formulations, including one for ultra-short throw projection. Each TecVision surface is designed for uniform performance across the image and from screen to screen. We test each formulation periodically to make sure it is still performing within our parameters. TecVision surfaces are optically seamless—the substrate is seamed, but the image surface is not, so seams are invisible.

Price varies with size/model

<https://www.draperinc.com/projectionscreens/tecvision.aspx>

Barix RetailPlayer

Barix's scalable RetailPlayer solution lets retail, hospitality, and corporate customers easily and securely manage streamed music and messages across multiple locations over the internet. Robust playout hardware uses advanced buffer technology for resilience to varying internet performance, while the RetailPlayer Portal provides centralized management through a browser or mobile device.

Pricing available on request

<https://www.barix.com/retailplayer/>

Hall Technologies VERSA 4K

Extend and switch multiple HDMI video and USB data to an unlimited number of receivers on a simple Gigabit network. Bidirectional IR, RS-232, and auxiliary stereo audio can also be extended. Advanced features include, low latency audio/video, video wall processing to expand and split 4K video to multiple screens.

<https://halltechav.com/product/versa-4k/>

INFILED X Series

dvled great for indoor rental/stagging events, stage performances, public squares, shopping malls, stadiums, and hotels.. This product is ultra thin and offers smooth curves and can also be angled for tight corner applications. This high bright, and light-weight dvLED come in dot pitches ranging from 2.5 to 3.9mm.

Contact for pricing

<https://www.infiled.com/PRODUCTS/Rental-led-display/197.html>

NanoLumens Nixel Series

With pixel pitches as low as 1.25mm, Nixel Series™ displays provide space efficiency, increase advertising ROI, and minimize environmental impact. The Nixel Series™ is the highest resolution display for outdoors on the market and are easy to install and maintain, eliminating the need for rigorous maintenance.

<https://www.nanolumens.com/indoor-outdoor-digital-signage-nixel-series/>

SMART HOME



Crestron Electronics, Inc. Battery Powered Shades



With battery-powered shades joining our wired and wireless portfolio, Crestron has every window and door covered, with a vast selection of styles and fabrics to choose from. And something no one else can offer – they feature seamless integration with the Crestron Home platform for an unparalleled whole home control experience.

crestron.com



Crestron Electronics, Inc. Crestron Home Conferencing MM30-R



The Crestron® UC-MM30-R tabletop conference device pairs an enterprise-grade speakerphone with the powerful control of the Crestron Home operating system to provide one convenient home office companion. The intuitive user interface allows for dynamic home control and convenient in-call volume control via the device's large 7-inch HD color touch screen.

<https://www.crestron.com/Products/Workspace-Solutions/Unified-Communications/Crestron-Flex-Tabletop-Conferencing-Systems/UC-MM30-R>



Legrand BCS Design Center 4.2



Design Center 4.2 is the first of a series of software releases focused on Vantage's LHUMAN Human Centric Lighting solution that makes programming HCL easier than ever. New features will allow for better control of color-tunable LED fixtures, providing homeowners with a better experience while simplifying the programming process.

<https://www.legrand.us/lighting-controls-and-systems/software-and-configuration-tools/design-center/p/design-center>

SMART HOME



Legrand BCS EasyTouch Glass Keypad



EasyTouch Glass is a modular keypad station with contemporary aesthetics and functionality that complements every home's design. Available in one through five-programmable laser-engraved buttons for different smart home scenes, the EasyTouch Glass modular button, faceplate, and trim design provides flexibility to mix or match colors.

<https://www.legrand.us/lighting-controls-and-systems/vantage-controls/keypads-and-user-interfaces/easytouch-glass-keypad/p/easytouch-glass>



Legrand BCS LHUMAN



Easily programmed using Vantage's Design Center 4.2 software, the LHUMAN Human Centric Lighting solution combines lighting controls, motorized shading, and color-tunable light fixtures to harness natural light when available— or render it artificially when it's not.

<https://www.legrand.us/vantage/lhuman>



RTI CX10 10 inch Countertop/Under-Cabinet Touchpanel

From the executive boardroom to the gourmet kitchen, the CX10 delivers intuitive control and a high-end entertainment experience in a sleek touchpanel design. The CX10's 10-inch, high-resolution LCD screen offers ample space to create the ultimate custom user interface. With this level of personalization, any user can confidently manipulate the environment and entertainment. The versatile CX10 also doubles as a display for watching an HD movie or a television show via the integrated HDBaseT video input and stereo speakers. Easy to mount on a countertop or beneath a cabinet, the touchpanel display has a tilt range from 10 degrees to 90 degrees for the best viewing angle possible. Additional user-friendly features include video intercom support, composite video viewing and a proximity sensor.

<https://www.rticontrol.com/cx10-wired-interface.html>



RTI

Integration Designer v11

The award-winning Integration Designer 11 brings many new features including an integrated online driver store to help integrators delight their customers with a faster, more efficient installation. It adds support for the new RTI Music platform and features an all-new template, new icons and background libraries, custom sliders and more to personalize residential and commercial projects. The new Integration Designer 11 showcases an all-new template with support for the new RTI Music, new and updated sources, customizable scroll bars across the touchscreens and apps, swappable backgrounds, and new fonts – all with auto-programming for a fast start and beautiful finish to any project without sacrificing any of the advanced customization for which RTI is legendary. The new Integration Designer 11 also includes an online driver store, enabling integrators to find all drivers without leaving the software and searching on a separate driver site. Programming is easily reusable, again saving integrators time on all projects.

<https://www.rticontrol.com>



RTI

KA11 11 Inch Countertop/Wall Touchpanel

The KA11 touchpanel provides exceptional control of the entertainment, environment and security systems in residential or commercial settings. Simple and intuitive, the sleek touchpanel features a fully customizable 11.6” widescreen LCD display with an integrated capacitive touchscreen for swiping through pages and menus. The innovative KA11 is programmable in landscape or portrait mode and comes equipped with sensors to automatically wake the unit and adjust the screen brightness as a user approaches. Installation is easy using the included wall bracket or an accessory stand is available for table top installations. In addition, only one Ethernet connected Cat-5/6 cable is required to power the unit and enable control via the RTI ecosystem.

<https://www.rticontrol.com/ka-11.html>



RTI

KX10 10 Inch In-Wall Touchpanel

With a commanding presence and sophisticated styling, the KX10s delivers state-of-the-art automation to residential and commercial settings. The high resolution 10” display, programmable to the finest detail, provides ample screen real estate to create the ultimate custom user interface. Combining luxury and convenience, the KX10s is equipped with an HDBaseT video input for viewing high definition video directly on the widescreen display. Ethernet connectivity makes it easy to check security cameras and answer the door via the built-in video intercom. Direct control over electronics is possible via the integrated IR and RS-232 ports, or incorporate the KX10s into the RTI ecosystem, where anything is possible with a simple touch.

<https://www.rticontrol.com/kx10s-in-wall-universal-controller.html>



RTI

RTI Music

From the casual listener to the audiophile, streaming music has never been easier than with RTI Music and the MS-3 Music Streamer. Seamlessly deliver Hi-Res Audio (24bit/192kHz) into every room with a tap on a touch panel, remote or the RTI control app on your phone. Whether you are streaming music from your favorite platform or from your local NAS, the MS-3 will outperform your expectations. RTI Music supports multiple independent sources and allows for three concurrent streams. Streaming sources include Pandora, Spotify, iHeart Radio, SiriusXM, SiriusXM for Business, SoundMachine, and TuneIn. The AirPlay interface enables streaming from Apple Music and Amazon music. The Music Queue features a play now, play later, and play soon options to build an on-the-fly song queue while the Favorites playlists integrates songs from multiple services and local devices.

<https://www.rticontrol.com/rti-music>



RTI

RTiPanel App - Apple/Android/Windows PC

Fully customizable using RTI's Integration Designer programming software, the RTiPanel offers the same intuitive control experience RTI remote controls offer, running on an Apple or Android smart phone or tablet device as well as on a Windows® PC. Providing secure local or remote access to an RTI control processor from any Internet connection, the RTiPanel allows for control via LAN, Wi-Fi and WAN control off site. When used with an XP series control processor, users can view and adjust thermostats, monitor security systems and turn off lights, in addition to controlling their A/V electronics, from the office, on vacation, or virtually anywhere in between. The RTiPanel app is also available for local, one-way control using the RP-4 control processor.

<https://www.rticontrol.com/rtipanel-application-1.html>



RTI

T4x Remote Control

The T4x remote control is the flagship of the award-winning wireless interface lineup from the RTI. Precision engineered with a large high-resolution capacitive touchscreen, the essential hard buttons, and a completely customizable interface, the user will enjoy simple, intuitive control and superb ergonomics. Perfectly suited for the smart home or office, the T4x sets the standard in wireless control with advanced features including grip sensors, WiFi, dual RF, and more.

<https://www.rticontrol.com/t4x-remote-control.html>



RTI

U3 Weather-Resistant Remote Control

The U3 weather-resistant remote is the perfect companion for hot tubs, pools, bathrooms, and decks, delivering reliable wireless control of electronic systems in environments that are too harsh for standard remotes. The durable remote floats if dropped in the water for easy retrieval. It uses inductive charging and wireless programming updates, allowing it to be completely sealed for exceptional weather protection. The U3 combines the convenience and low power requirements of an electronic paper display with fully programmable soft-touch buttons for quick access to commonly used functions. The display is easy to read in bright light—even outdoors—and can be customized to each project via the award-winning RTI Integration Designer programming software.

<https://www.rticontrol.com/u3-water-resistant-remote-control.html>



RTI

VX88-18G-8 8 x 8 4K HDBaseT™ Matrix

The 8x8 HDBaseT™ Matrix combines exceptional performance with outstanding value for custom integrators world-wide. The VX88-18G is a HDMI 2.0 4K 60Hz 4:4:4 HDCP 2.2 matrix using Color Space Conversion (CSC) technology to deliver HDMI, Bi-directional IR and PoC up to lengths of 70m over a single CAT cable. The Matrix delivers advanced features including simultaneous HDBaseT™/HDMI on output 1, video down-conversion on HDBaseT™ outputs and a web browser interface module for simple configuration of the Matrix. The 8x8 HDBaseT™ Matrix combines exceptional performance with outstanding value for custom integrators world-wide. The VX88-18G is a HDMI 2.0 4K 60Hz 4:4:4 HDCP 2.2 matrix using Color Space Conversion (CSC) technology to deliver HDMI, Bi-directional IR and PoC up to lengths of 70m over a single CAT cable. The Matrix delivers advanced features including simultaneous HDBaseT™/HDMI on output 1, video down-conversion on HDBaseT™ outputs and a web browser interface module for simple configuration of the Matrix.

<https://www.rticontrol.com/vx88-18g-8-x-8-4k-hdbaset-matrix-switcher.html>



RTI

XP-8v Control Processor

The XP-8v is our most powerful system processor, able to control and automate the most advanced smart homes and smart offices. The processor leverages an extensive driver database to facilitate integration of third-party devices, such as A/V, lighting, shades, security and HVAC in homes and office buildings. The third generation of the popular XP-8 control processor, the accelerated XP-8v kicks control into high gear with even more processing power, additional memory and an HDMI output for an OSD (on-screen-display) interface. Increased performance combined with a real time/multitasking operating system, tremendous expandability and compatibility with any RTI controller or app, make the XP-8v the perfect solution for large-scale and complex projects.

<https://www.rticontrol.com/xp-8v-control-processor.html>

BenQ LK953ST Laser Projector

The BenQ LK953ST Blue Core laser projector supports 4K UHD HDR presentations for the ultimate in collaboration. The short-throw projector features 3840 x 2160 resolution with 8.3 million distinct pixels and 5,000 lumens of brightness and IP5X-rated DustGuard technology for 20,000 hours of maintenance-free operation.

\$5,499

<https://www.benq.com/en-us/business/projector/lk952.html>

Blackdove Blackdove Art Server

The Blackdove Art Server allows any display to connect to the Blackdove digital art gallery. The art server enables instantaneous delivery, display, and management of digital art with NFT blockchain registration and end-to-end encryption. This slim device is easily installed and can connect to the Blackdove cloud via Ethernet or WiFi.

Contact us for pricing

<https://blackdove.com/>

Blackdove Blackdove Digital Canvas

The Blackdove Digital Canvas is a purpose-built display for digital art. Available in an array of sizes up to 98 inches, each Blackdove Digital Canvas has an integrated Blackdove Art Server and is designed for continuous operation and can hang in either portrait or landscape orientation.

Contact us for pricing

<https://blackdove.com/>

Hunter Douglas PowerView+

Ideal for custom builds and renovations, Hunter Douglas PowerView+ is a premium low-voltage, hardwired system with ultra-quiet motors for shade control through the PowerView App, Pebble Remote, or smart home system for Designer Roller Shades, Designer Screen Shades, and Pirouette and Silhouette Window Shadings.

www.hunterdouglas.com

Hunter Douglas Rechargeable Battery Wand

The Rechargeable Battery Wand brings convenient, long-lasting, sustainable power to Hunter Douglas PowerView Automation shading products. Discreetly concealed behind the headrail, yet easy to remove, recharge, and replace, the slim Rechargeable Battery Wand doesn't mar the beauty of window treatments.

www.hunterdouglas.com

Luxul Epic Mesh MN-10

The Wireless Mesh Node combines the power of a Luxul wireless product with the ease of retail networking solutions. This node can be used as a replacement router for a new mesh network, or as an additional/replacement node to an existing mesh network. Just plug into an available outlet and use the Luxul Easy Setup App on your iOS or Android smartphone to define how the device will be used: router or node.

<https://www.luxul.com/wireless/mesh/mn-10.aspx>

Luxul Luxul Easy Setup App

The Easy Setup App for iPhone and Android mobile devices allows dealers to quickly and easily install a Luxul wireless router while also ensuring the essential settings are properly configured, resulting in a more secure and effective network for end customers.

<https://www.luxul.com/routers/wireless-routers/easy-setup-app.aspx>

Luxul Managed L2/L3 Gigabit Switches

Luxul managed L2/L3 Gigabit switches, the 48 PoE+ SW-510-48P-F; 24 PoE+ SW-610-24P-R; and 48 PoE+ SW-610-48P-F are designed for large residential and commercial networks. The units are packed with features for simple network expansion and management, while offering high performance with fast switching capacities of 104Gbps, 128Gbps, and 176Gbps, respectively.

https://www.legrandav.com/products/switches/managed_switches/48-port_gb_poe_l2_l3_managed_switch_with_4_sfp_plus/sw-610-48p-f#sort=relevancy&numberOfResults=20

Luxul P40

Luxul's P40 AC1200 WiFi Bridge + Range Extender offers a simple option for extending the reach of your wireless network. It can be used either as a bridge link for directly connecting Ethernet devices to your WiFi network or as a range extender for providing WiFi coverage to those hard-to-reach dead spots.

<https://www.luxul.com/wireless/wireless-access-points/p40.aspx>

Luxul PDU-16

The PDU 16 Power Distribution Unit simplifies installations and reduces the cost of service by providing intelligent power optimized for networking systems. The PDU Series extends control from traditional rack enclosures to hard to reach displays - and everything in between. The PDU 16 offers individual IP control of 8 outlets.

<https://www.luxul.com/accessories/pdu/pdu-16.aspx>

Luxul ProWatch

Your clients' networks host more connected devices than ever before, and their expectations for them all to work seamlessly are higher than ever. With Luxul ProWatch, monitor and manage every device on the network to proactively respond to issues while avoiding truck rolls for simple system management tasks.

<https://www.luxul.com/prowatch.aspx>

Luxul SW-100-08P

The SW-100-08P is a compact Gigabit PoE+ switch that provides eight PoE+ capable ports of Gb Ethernet connectivity with a total power budget of 92 watts. It is an excellent choice for expanding your network when using PoE-enabled devices such as IP cameras and wireless access points and fits easily into the widest range of environments.

<https://www.luxul.com/switches/unmanaged-switches/sw-100-08p.aspx>

Luxul XAP-1610

The XAP-1610 is built with leading edge 802.11ac Wave 2 technology which offers support for more connected devices and increased data rates, delivering outstanding Wi-Fi performance. It is compatible with all Luxul Wi-Fi controllers, both standalone and embedded, and can be used standalone or as part of a multi-AP deployment.

<https://www.luxul.com/wireless/wireless-access-points/xap-1610.aspx>

Luxul XMS-1208P

The XMS-1208P is a 12 port/8 PoE+ front-facing rackmount switch that provides silent fan-less operation, 24Gbps switching capacity, Layer 3 static routing, 802.1Q VLAN support with trunking, and QoS prioritization—perfect for security and small business installations.

<https://www.luxul.com/switches/poe-switches/xms-1208p.aspx>

Orro Orro One Pro

The Orro Smart Living System transforms any home with automatic, human-centric and wellness-oriented intelligent lighting, home-wide control, energy savings and home monitoring capabilities. With Orro, offer your customers a unified smart home solution that aligns with any budget, unlocking new opportunities to sell more and grow your business with the increasing demand for professionally-installed systems at mainstream price points.

\$299

www.getorro.com/shop

ProControl iPro.8 Remote Control

The iPro.8 is an ideal secondary remote for any ProControl system. With its programmable hard-button control, this affordable remote delivers reliable control throughout the home. The iPro.8 also adds an extra layer of convenience as a companion remote for Pro Control users who rely mostly on the ProPanel app running on their iPhone or iPad.

<https://procontrol.com/products/ipro-8/>

ProControl Pro.ire.1 IR Emitter

The Pro.ire.1 infrared emitter can be easily mounted directly over your components' IR sensor window and plugged into any available ProLink processor IR port. Attachable to any infrared-compatible device, the Pro.ire.1 enables ProLink processor control for countless electronic components.

<https://procontrol.com>

ProControl Pro.relay.4 Relay Control Module

The Pro.relay.4 Relay Control Module can be powered over Ethernet (PoE) and provides four addressable relays for controlling everything from amplifiers to window coverings. Control the Pro.relay.4 via Ethernet, or via discrete infrared control.

<https://procontrol.com/products/pro-relay-4/>

ProControl Pro.rfz Transceiver Module

The Pro.rfz transceiver module provides bi-directional communication between two-way enabled Pro.24z remote control and ProLink.z control processor utilizing ZigBee® wireless communication. Multiple modules can be added to create an ultra-reliable network.

<https://procontrol.com/products/pro-rfz/>

ProControl Pro24.r Plus Kit

This kit solution makes it easier to deliver powerful single-room control. The Pro24.r Plus kit pairs the Pro24.r handheld touchscreen remote with the Pro24.Dock remote control cradle, making it easier than ever to ensure that remotes are always charged.

<https://procontrol.com>

ProControl

Pro24.z Remote Control

When used with the ProLink.z or an RTI XP central processor, the Pro24.z offers comprehensive bi-directional control of AV receivers, lighting, HVAC, security and more. A dazzling, high-resolution LCD touchscreen, programmable 5-way joystick and backlit hard buttons take entertainment to new heights, providing intuitive operation, even in darkened rooms.

<https://procontrol.com/products/pro24-z/>

ProControl

ProControl Studio

Available on the Pro Control dealer site, Pro Control Studio guides integrators through the process of setting up single-room or whole-home systems, making them as easy to install as they are for users to enjoy. The extensive Pro Control IR library works with virtually every AV device – auto-programmed to enable system set-up in minutes – and continuously grows with support for new ones.

<https://procontrol.com>

ProControl

ProLink.r Plus Kit

This kit solution makes it easier to deliver powerful single-room control. The ProLink.r Plus kit includes the ProLink.r processor and four Pro.ire.1 infrared (IR) emitters, allowing dealers to take full advantage of the processor's IR capabilities.

<https://procontrol.com>

ProControl

ProLink.z Control Processor

ProControl's ultimate processor delivers comprehensive control over your environment when partnered with the Pro24.z or iPro.8 remotes. Also compatible with our Pro Panel App for iOS.

<https://procontrol.com/products/prolink-z/>

ProControl

ProPanel iOS App

ProPanel provides secure local or remote access to a Pro Control control processor from any local area network or Internet connection. User can control their music and video, view and adjust thermostats, monitor security systems and turn lights on and off – all from the home, the office, on vacation, or anywhere in between!

<https://procontrol.com/products/ios/>

SPEAKERS



AtlasIED SHS (Strategically Hidden Speaker) Family

The SHS family of speakers from AtlasIED are designed to blend into the aesthetic of any ceiling, while retaining optimal sound performance. The perfect speakers for architecturally impressive environments where you want your high-definition audio heard, not seen. The SHS form factors, including in-ceiling, wall-mount, and pendent mount options, are easy to install and particularly useful for background music, paging/ notification and sound masking. They come packaged with different adaptive dispersion lenses for a variety of applications and installation locations and can even be custom printed through our DesignLab process to match the ceiling texture and color. Also available in a sub-woofer version to ensure high-quality, full bodied audio.

<https://www.atlasied.com/shs-series-overview>



AtlasIED Strategy III

The most innovative and easily installed in-ceiling speakers for the professional audio markets, the Strategy III family is one of our most popular speaker lines. Providing exceptional performance, easy installation and high fidelity, Strategy III is the industry "go-to" for high quality in-ceiling installations. Multiple sizes, and UL ratings available.

<https://www.atlasied.com/speakers-in-ceiling-speakers-strategy-iii>

Ashly Audio AW "Plus" Series On-Wall Speaker Line

Ashly Audio's AW Series On-Wall speaker line now includes a Plus model, The new Plus model, stylized as AWT+, offers a power upgrade to make the speakers more accessible for larger rooms, such as retail spaces, transportation centers, or noisy sports bars.

<https://ashly.com/aw-series-plus/>

Barix IP Former

The Barix IP Former hardware transforms analog loudspeakers into feature-rich, networked, PoE-powered IP speakers by providing an IP network interface, audio stream decoder, and amplifier front-end for a two- to eight-ohm speaker. Current analog speaker installations can be upgraded to IP by simply swapping their transformers with IP Former units.

Pricing on request

<https://www.barix.com/ipformer/>

Biamp

Desono™ EX

Desono™ EX elegant surface mount loudspeakers offer excellent speech intelligibility and sound reproduction. Designed for indoor and outdoor use with time-saving installation features, the Desono EX Series includes 6.5-inch, 8-inch, and 10-inch two-way coaxial loudspeakers, as well as a 10-inch subwoofer. All full-range models include 70V/100V transformers and low-impedance inputs.

<https://www.biamp.com/products/product-families/desono/surface-mount-loudspeakers#desono-ex-s6>

Bose Professional Corporation

Bose AMM 112 multipurpose loudspeaker

The AMM112 multipurpose loudspeaker features a passive, coaxial two-way design with a 3-inch compression driver, 12-inch low-frequency transducer, and high output: 131 dB peak. Its proprietary Beamwidth Matching Waveguide ensures signature Bose sound quality, delivering consistent frequency response, clarity, and projection across the coverage area—a remarkably powerful audio experience for both performers and audiences.

https://pro.bose.com/en_us/products/loudspeakers/point_source_sound_reinforcement/amm/amm-112-multipurpose-loudspeaker.html#v=amm_112_black

Bose Professional Corporation

Bose AMM108 multipurpose loudspeaker

The AMM108 multipurpose loudspeaker features a passive, coaxial two-way design with a 1.7-inch compression driver, 8-inch low-frequency transducer, and high output: 128 dB peak. Its proprietary Beamwidth Matching Waveguide ensures signature Bose sound quality, delivering consistent frequency response, clarity, and projection across the coverage area—a remarkably powerful audio experience for both performers and audiences.

https://pro.bose.com/en_us/products/loudspeakers/point_source_sound_reinforcement/amm/amm-108-multipurpose-loudspeaker.html#v=amm_108_black

Bose Professional Corporation

Bose AMS115 Compact Subwoofer

The AMS115 multipurpose subwoofer features a 15-inch neodymium transducer and offers low frequency down to 35 Hz. With a lightweight enclosure, ergonomic handles, M20 threaded pole mount, and 12 M10 suspension points, this passive subwoofer is ideal for a variety of applications in portable setups or permanent installations—especially when paired with Bose AMM multipurpose loudspeakers.

https://pro.bose.com/en_us/products/loudspeakers/point_source_sound_reinforcement/amm/ams-115-compact-subwoofer.html#v=ams_115_black

Bose Professional Corporation

DesignMax loudspeakers

Great for both background and foreground audio applications, DesignMax loudspeakers offer rich lows, clear highs, and premium aesthetics. Complete any commercial sound installation with 16 loudspeakers to choose from. This includes in-ceiling, surface-mount, and pendant form factors, subwoofers, high-SPL compression-driver models, compact low-profile models, and outdoor-rated options – all of which deliver instantly impressive sound and enhance any room design.

https://pro.bose.com/en_us/products/loudspeakers/background_foreground/designmax.html

Biamp

L1 Pro 8 Portable Line

As the most portable L1 Pro system, the L1 Pro8 is ready whenever you are, enabling easier load-in and faster setup. With an eight-driver articulated C-shape line array, the L1 Pro8 offers 180 degrees of horizontal sound coverage, equipping singer-songwriters and DJs for small venues like coffee shops and cafes.

https://pro.bose.com/en_us/products/portable/l1/l1-pro8-portable-line-array-system.html#v=l1_pro8_black_us

Biamp

L1 Pro16 Portable Line

A balance of power and portability, the L1 Pro16 portable line array is a streamlined system with high output and extended low frequency. With a 16-driver articulated J-shape line array, the L1 Pro16 offers 180 degrees of horizontal sound coverage and is a perfect fit for DJs, singer-songwriters, and small ensembles performing in small-to-medium sized clubs, bars, and other venues.

https://pro.bose.com/en_us/products/portable/l1/l1-pro16-portable-line-array-system.html#v=l1_pro16_black_us

Biamp

L1 Pro32 Portable Line

The L1 Pro32 is our most advanced L1 ever. With a 32-driver articulated line array and Bose Sub1 or Sub2 subwoofer, the L1 Pro32 offers 180-degree horizontal sound coverage, giving DJs, singer-songwriters, and bands an unrivaled portable PA system for medium-to-large-sized venues and events like weddings, clubs, and festivals.

https://pro.bose.com/en_us/products/portable/l1/l1-pro32-portable-line-array-system.html#v=l1_pro32_black_us

Biamp

Sub 1 & 2

Sub1 and Sub2 powered bass modules combine with virtually any portable PA to deliver low end down to 40 Hz and 37 Hz, respectively. When paired with the Bose L1 Pro32, Sub1 creates a more compact system, while Sub2 plays lower and louder.

https://pro.bose.com/en_us/solutions/portable/l1-pro-family/sub1-sub2.html

Caster Communications **Enclave Audio CineHome II**

The Enclave Audio CineHome II 5.1 channel wireless surround sound speaker system leverages WiSA technology to deliver high-definition wireless audio. Complementing any home entertainment environment, the system sets up as quickly and easily as a soundbar but provides the unmatched performance of a dedicated surround sound system.

\$1,099.98

<https://www.enclaveaudio.com/collections/cinehome-systems/products/enclave-cinehome-ii-wireless-home-theater-system>

Enclave Audio **CineHome PRO**

The Enclave Audio CineHome PRO surround sound speaker system is the first THX and WiSA Certified wireless home theater system. Scalable up to 5.4 channels, the CineHome PRO sets up as quickly and easily as the leading soundbar systems but provides all the sonic benefits of a dedicated surround sound audio system.

\$1,599.98

<https://www.enclaveaudio.com/products/enclave-cinehome-pro-wireless-home-theater-system>

EPOS **EPOS EXPAND Capture 5**

The EXPAND Capture 5 is an intelligent speaker solution for Microsoft Teams Rooms that levels the playing field and empowers meeting participation regardless of location. With superior audio and voice recognition, the EXPAND Capture 5 transcribes meetings automatically to enable quality collaborations as if all in the room together.

\$469.00

<https://www.eposaudio.com/en/us/enterprise/products/expand-capture-5-speakerphone-1000895>

EPOS **EPOS EXPAND Capture 5**

The EXPAND Capture 5 is an intelligent speaker solution for Microsoft Teams Rooms that levels the playing field and empowers meeting participation regardless of location. With superior audio and voice recognition, the EXPAND Capture 5 transcribes meetings automatically to enable quality collaborations as if all in the room together.

\$469.00

<https://www.eposaudio.com/en/us/enterprise/products/expand-capture-5-speakerphone-1000895>

Nuvo **Nuvo 8" Passive Subwoofers and Digital Amplifiers**

Nuvo's family of 8-inch in-ceiling and in-wall passive subwoofers and matching digital amplifiers are optimized for small, medium, and large home theaters and audio installations. The three compact single and dual subwoofers deliver a powerful, low-frequency impact, while the wall- and rack-mount amplifiers are packed with convenience features for maximum versatility.

Check pricing with distributor

legrand.us/nuvo/speakers

SPEAKERS

Nuvo

Series Two, Four, and Six Speakers

Nuvo Series Two, Four, and Six Speakers are manufactured with quality components and materials for unprecedented performance in any space. With a selection of in-wall, in-ceiling, and outdoor speakers that install easily and seamlessly blend into any room, the line offers impeccable sound quality that satisfies even the most discriminating audiophile.

Check pricing with distributor

<https://www.legrand.us/nuvospeakers.aspx>

PowerHouse Alliance

A2V In-Ceiling Speakers

Built from durable components that feature a flush mount design and paintable grilles with paint shields included, the A2V In-Ceiling Speakers are available in two models, 6.5-inch and 8-inch making them a versatile option for AV installs. Featuring a .75-inch glass fiber tweeter and a 1-inch aluminum coil, the In-Ceiling speakers are supported with a lifetime warranty.

www.powerhousealliance.com

PowerHouse Alliance

A2V In-Wall Speakers

Designed with ease of installation in mind, the A2V In-Wall Speakers feature a .75-inch glass fiber tweeter and a 1-inch aluminum coil. The In-Wall Speakers are available in two models, 6.5-inch and 8-inch, both models feature a flush mount design, paintable grilles, a paint shield and a lifetime warranty.

www.powerhousealliance.com

Renkus-Heinz

CA/CX121M

The CA/CX121M Self-Powered Dante 12-inch stage monitor serves as both a monitor and as an excellent choice for portable and installed PA functions. The CA/CX121M offers the flexibility to be used as a pole-mounted side fill or as a sound reinforcement system without the need to reconfigure the drive unit.

https://www.renkus-heinz.com/product_detail/cx-ca121m/

Renkus-Heinz

DC12/2

The DC12/2 is an ultra-compact steerable array that brings clarity, intelligibility, and control to compact spaces. Designed for tight control and invisible aesthetics, the DC12/2 addresses the needs of smaller, more challenging installations. Additionally, the DC12/2 is the first digitally steerable array with smartphone/tablet control.

https://www.renkus-heinz.com/product_detail/dc12-2/

Renkus-Heinz ICLive X

The ICLive X is a compact, high-output, high-fidelity steerable array module that offers expanded integrator flexibility. Suitable for various applications, the ICLive X can stand alone, array up to twelve units tall, or combine with the ICLive XL/LX modules to accommodate larger spaces.

<https://www.renkus-heinz.com/products/iclive-x-series/>

Renkus-Heinz Iconyx Compact Series

The expanded Iconyx Compact Series, now available with Dante networked audio, brings the flexibility and directivity of Iconyx into a compact footprint. The slim profile, 12-channel amplifier, and exceptional directivity help control challenging acoustics — making the outstanding performance of beam-steered line arrays available to even the most architecturally sensitive spaces.

<https://www.renkus-heinz.com/products/iconyx-compact/>

Renkus-Heinz SX/SA28

The SX/SA28 dual eight-inch subwoofer provides power and punch, and is available in both passive (SX28) and powered (SA28) models. With an extremely compact and low-profile design, the SX/SA is an ideal solution for a variety of install and portable scenarios that require deep, powerful bass.

https://www.renkus-heinz.com/product_detail/sx-sa28/



Crestron Electronics, Inc. 70 Series Touch Screens



Crestron 70 Series Touch Screens support a broad array of applications and customizable interfaces to deliver the experience demanded by users today. Crestron touch screens provide a gateway to control a variety of building systems, including AV, unified communications, lighting and building automation across the most demanding of locations.

<https://www.crestron.com/Products/Featured-Solutions/TSW-70-Series>

Extron.

Extron TLP 1230WTG



The TLP Pro 1230WTG is Extron's new ultra-wide touchpanel which features a vibrant 12" 1920x720 resolution touchscreen. The ultra-wide format enhances user experiences since it allows multiple tasks to be seen and managed at the same time. The TLP Pro 1230WTG provides ample screen space to simultaneously display full AV system controls and video preview. It provides an HDMI video preview input that supports high resolution HDCP compliant video from an HDMI source.

The sleek, low-profile design minimizes visual obstructions and improves collaboration engagement in a wide variety of applications.

<https://www.extron.com/tlppro1230wtg>



RTI CX10 10 inch Countertop/Under-Cabinet Touchpanel

From the executive boardroom to the gourmet kitchen, the CX10 delivers intuitive control and a high-end entertainment experience in a sleek touchpanel design. The CX10's 10-inch, high-resolution LCD screen offers ample space to create the ultimate custom user interface. With this level of personalization, any user can confidently manipulate the environment and entertainment. The versatile CX10 also doubles as a display for watching an HD movie or a television show via the integrated HDBaseT video input and stereo speakers. Easy to mount on a countertop or beneath a cabinet, the touchpanel display has a tilt range from 10 degrees to 90 degrees for the best viewing angle possible. Additional user-friendly features include video intercom support, composite video viewing and a proximity sensor.

<https://www.rticontrol.com/cx10-wired-interface.html>



RTI

Integration Designer v11

The award-winning Integration Designer 11 brings many new features including an integrated online driver store to help integrators delight their customers with a faster, more efficient installation. It adds support for the new RTI Music platform and features an all-new template, new icons and background libraries, custom sliders and more to personalize residential and commercial projects. The new Integration Designer 11 showcases an all-new template with support for the new RTI Music, new and updated sources, customizable scroll bars across the touchscreens and apps, swappable backgrounds, and new fonts – all with auto-programming for a fast start and beautiful finish to any project without sacrificing any of the advanced customization for which RTI is legendary. The new Integration Designer 11 also includes an online driver store, enabling integrators to find all drivers without leaving the software and searching on a separate driver site. Programming is easily reusable, again saving integrators time on all projects.

<https://www.rticontrol.com>



RTI

KA11 11 Inch Countertop/Wall Touchpanel

The KA11 touchpanel provides exceptional control of the entertainment, environment and security systems in residential or commercial settings. Simple and intuitive, the sleek touchpanel features a fully customizable 11.6” widescreen LCD display with an integrated capacitive touchscreen for swiping through pages and menus. The innovative KA11 is programmable in landscape or portrait mode and comes equipped with sensors to automatically wake the unit and adjust the screen brightness as a user approaches. Installation is easy using the included wall bracket or an accessory stand is available for table top installations. In addition, only one Ethernet connected Cat-5/6 cable is required to power the unit and enable control via the RTI ecosystem.

<https://www.rticontrol.com/ka-11.html>



RTI

KX10 10 Inch In-Wall Touchpanel

With a commanding presence and sophisticated styling, the KX10s delivers state-of-the-art automation to residential and commercial settings. The high resolution 10” display, programmable to the finest detail, provides ample screen real estate to create the ultimate custom user interface. Combining luxury and convenience, the KX10s is equipped with an HDBaseT video input for viewing high definition video directly on the widescreen display. Ethernet connectivity makes it easy to check security cameras and answer the door via the built-in video intercom. Direct control over electronics is possible via the integrated IR and RS-232 ports, or incorporate the KX10s into the RTI ecosystem, where anything is possible with a simple touch.

<https://www.rticontrol.com/kx10s-in-wall-universal-controller.html>



RTI

RTI Music

From the casual listener to the audiophile, streaming music has never been easier than with RTI Music and the MS-3 Music Streamer. Seamlessly deliver Hi-Res Audio (24bit/192kHz) into every room with a tap on a touch panel, remote or the RTI control app on your phone. Whether you are streaming music from your favorite platform or from your local NAS, the MS-3 will outperform your expectations. RTI Music supports multiple independent sources and allows for three concurrent streams. Streaming sources include Pandora, Spotify, iHeart Radio, SiriusXM, SiriusXM for Business, SoundMachine, and TuneIn. The AirPlay interface enables streaming from Apple Music and Amazon music. The Music Queue features a play now, play later, and play soon options to build an on-the-fly song queue while the Favorites playlists integrates songs from multiple services and local devices.

<https://www.rticontrol.com/rti-music>



RTI

RTiPanel App - Apple/Android/Windows PC

Fully customizable using RTI's Integration Designer programming software, the RTiPanel offers the same intuitive control experience RTI remote controls offer, running on an Apple or Android smart phone or tablet device as well as on a Windows® PC. Providing secure local or remote access to an RTI control processor from any Internet connection, the RTiPanel allows for control via LAN, Wi-Fi and WAN control off site. When used with an XP series control processor, users can view and adjust thermostats, monitor security systems and turn off lights, in addition to controlling their A/V electronics, from the office, on vacation, or virtually anywhere in between. The RTiPanel app is also available for local, one-way control using the RP-4 control processor.

<https://www.rticontrol.com/rtipanel-application-1.html>



RTI

T4x Remote Control

The T4x remote control is the flagship of the award-winning wireless interface lineup from the RTI. Precision engineered with a large high-resolution capacitive touchscreen, the essential hard buttons, and a completely customizable interface, the user will enjoy simple, intuitive control and superb ergonomics. Perfectly suited for the smart home or office, the T4x sets the standard in wireless control with advanced features including grip sensors, WiFi, dual RF, and more.

<https://www.rticontrol.com/t4x-remote-control.html>



RTI

U3 Weather-Resistant Remote Control

The U3 weather-resistant remote is the perfect companion for hot tubs, pools, bathrooms, and decks, delivering reliable wireless control of electronic systems in environments that are too harsh for standard remotes. The durable remote floats if dropped in the water for easy retrieval. It uses inductive charging and wireless programming updates, allowing it to be completely sealed for exceptional weather protection. The U3 combines the convenience and low power requirements of an electronic paper display with fully programmable soft-touch buttons for quick access to commonly used functions. The display is easy to read in bright light—even outdoors—and can be customized to each project via the award-winning RTI Integration Designer programming software.

<https://www.rticontrol.com/u3-water-resistant-remote-control.html>



RTI

XP-8v Control Processor

The XP-8v is our most powerful system processor, able to control and automate the most advanced smart homes and smart offices. The processor leverages an extensive driver database to facilitate integration of third-party devices, such as A/V, lighting, shades, security and HVAC in homes and office buildings. The third generation of the popular XP-8 control processor, the accelerated XP-8v kicks control into high gear with even more processing power, additional memory and an HDMI output for an OSD (on-screen-display) interface. Increased performance combined with a real time/multitasking operating system, tremendous expandability and compatibility with any RTI controller or app, make the XP-8v the perfect solution for large-scale and complex projects.

<https://www.rticontrol.com/xp-8v-control-processor.html>

Biamp

Tesira TEC-X AV control

Tesira TEC-X AV control pads provide cost-effective, intuitive interfaces for presentation spaces and conference rooms. Equipped with an LCD, the TEC-X 2000 is PoE powered (IEEE 802.3at Class 2, 7W), wall-mountable, and daisy chainable. TEC-X 2000 supports all TTP commands and can be quickly programmed and customized within Tesira software.

<https://www.biamp.com/products/tesira-controls>

HuddleCamHD

HuddleCamHD HC-JOY-G3

The HuddleCamHD HC-JOY-G3 joystick controller offers serial PTZ camera control in a compact, easy-to-use form factor. Featuring a three-axis joystick; speed, iris, focus and preset controls; six camera quick select buttons; and control display screen, the easy-to-setup joystick is compatible with cameras from PTZOptics, HuddleCamHD, Sony, and more.

\$329

<https://huddlecamed.com/ptz-joystick/>

IHSE USA

Draco MultiView 4K60

The Draco MultiView 4K60 allows visualization scenarios common in air traffic control and control room applications, including 4:1 / 4:2 Single-Head or Dual-Head. The individual screens can be arranged freely and displayed in different modes: Fullscreen Mode, Quadscreen Mode (Quad Mode), Picture-in-Picture Mode (PiP Mode), Preview Mode, 2+2 Mode and Free Mode. Presets allow instant switching between the desired layouts.

Contact for pricing

<https://www.ihse.com/draco-multiview-4k60/>

IHSE USA

Draco tera flex KVM matrix systems

Draco tera flex KVM matrix systems bring advanced features normally found in our larger scale matrix frames. Ranging from 16 ports to 160 ports in compact sizes available in 1RU, 2RU, and 4RU frame sizes. Expansion modules can be mixed between Cat-X and fiber optic types, in either 1Gbit/s or 3 Gbit/s bandwidth, and multiple switches can be interconnected easily using the optional matrix grid technology. The Draco tera flex incorporates several advanced features from the Draco tera enterprise series, including SNMPv3, LDAPS, multilingual on-screen display, encrypted communication for maximum security, and fast booting. The switch's modular structure permits the simple interchange of individual components and paves the way for future expansion.

Contact for pricing

<https://www.ihse.com/draco-tera-flex/>

IHSE USA

Draco ultra DisplayPort 1.1 dual-head KVM extender

The Draco ultra DisplayPort 1.1 dual-head KVM extender enables visually lossless extension of two high-resolution DisplayPort signals, a keyboard and mouse connected over a single duplex fiber optic or Cat X cable. This simplifies installations and lowers costs by reducing cable requirements and matrix ports. Fully digital video signals can be transmitted in 4K resolutions up to 4096x2160 and UHD resolutions to 3840x2160, while embedded audio signals are directly reproduced by connected displays with integrated speakers. In combination with optional analog or digital audio modules, the stereo signal can be extracted and output separately.

Contact for pricing

<https://www.ihse.com/draco-vario-displayport-1-1-dh/>

IHSE USA

Draco vario ultra HDMI 2.0 extender

The Draco ultra DisplayPort 1.1 dual-head KVM extender enables visually lossless extension of two high-resolution DisplayPort signals, a keyboard and mouse connected over a single duplex fiber optic or Cat X cable. This simplifies installations and lowers costs by reducing cable requirements and matrix ports. Fully digital video signals can be transmitted in 4K resolutions up to 4096x2160 and UHD resolutions to 3840x2160, while embedded audio signals are directly reproduced by connected displays with integrated speakers. In combination with optional analog or digital audio modules, the stereo signal can be extracted and output separately.

Contact for pricing

<https://www.ihse.com/draco-vario-ultra-hdmi-2-0/>

ProControl

iPro.8 Remote Control

The iPro.8 is an ideal secondary remote for any ProControl system. With its programmable hard-button control, this affordable remote delivers reliable control throughout the home. The iPro.8 also adds an extra layer of convenience as a companion remote for Pro Control users who rely mostly on the ProPanel app running on their iPhone or iPad.

<https://procontrol.com/products/ipro-8/>

ProControl

Pro.ire.1 IR Emitter

The Pro.ire.1 infrared emitter can be easily mounted directly over your components' IR sensor window and plugged into any available ProLink processor IR port. Attachable to any infrared-compatible device, the Pro.ire.1 enables ProLink processor control for countless electronic components.

<https://procontrol.com/products/pro-ire-1/>

ProControl

Pro.relay.4 Relay Control Module

The Pro.relay.4 Relay Control Module can be powered over Ethernet (PoE) and provides four addressable relays for controlling everything from amplifiers to window coverings. Control the Pro.relay.4 via Ethernet, or via discrete infrared control.

<https://procontrol.com/products/pro-relay-4/>

ProControl

Pro.rfz Transceiver Module

The Pro.rfz transceiver module provides bi-directional communication between two-way enabled Pro.24z remote control and ProLink.z control processor utilizing ZigBee® wireless communication. Multiple modules can be added to create an ultra-reliable network.

<https://procontrol.com/products/pro-rfz/>

ProControl

Pro24.r Plus Kit

This kit solution makes it easier to deliver powerful single-room control. The Pro24.r Plus kit pairs the Pro24.r handheld touchscreen remote with the Pro24.Dock remote control cradle, making it easier than ever to ensure that remotes are always charged.

<https://procontrol.com>

ProControl

Pro24.z Remote Control

When used with the ProLink.z or an RTI XP central processor, the Pro24.z offers comprehensive bi-directional control of AV receivers, lighting, HVAC, security and more. A dazzling, high-resolution LCD touchscreen, programmable 5-way joystick and backlit hard buttons take entertainment to new heights, providing intuitive operation, even in darkened rooms.

<https://procontrol.com/products/pro24-z/>

ProControl

ProControl Studio

Available on the Pro Control dealer site, Pro Control Studio guides integrators through the process of setting up single-room or whole-home systems, making them as easy to install as they are for users to enjoy. The extensive Pro Control IR library works with virtually every AV device – auto-programmed to enable system set-up in minutes – and continuously grows with support for new ones.

<https://procontrol.com>

ProControl

ProLink.r Plus Kit

This kit solution makes it easier to deliver powerful single-room control. The ProLink.r Plus kit includes the ProLink.r processor and four Pro.ire.1 infrared (IR) emitters, allowing dealers to take full advantage of the processor's IR capabilities.

<https://procontrol.com>

ProControl

ProLink.z Control Processor

ProControl's ultimate processor delivers comprehensive control over your environment when partnered with the Pro24.z or iPro.8 remotes. Also compatible with our Pro Panel App for iOS.

<https://procontrol.com/products/prolink-z/>

ProControl

ProPanel iOS App

ProPanel provides secure local or remote access to a Pro Control control processor from any local area network or Internet connection. User can control their music and video, view and adjust thermostats, monitor security systems and turn lights on and off – all from the home, the office, on vacation, or anywhere in between!

<https://procontrol.com/products/ios/>

PTZOptics

PTZOptics PT-JOY-G4

The PTZOptics PT-JOY-G4 is a camera control joystick designed to integrate into any production configuration. The PT-JOY-G4 supports serial or network-based camera control for a wide array of manufacturers, including PTZOptics, Sony, and more. The joystick allows users to efficiently set up cameras for control, program and call presets, and fine-tune settings.

\$604

<https://ptzoptics.com/pt-joy-g4/>

PTZOptics

PTZOptics PT-SuperJoy-G1 Joystick

Basic Listing (50 word description) The PTZOptics PT-SuperJoy-G1 Joystick Controller is a comprehensive solution that supports serial and network-based camera control. Putting sophisticated multicamera production control at the fingertips of users of any ability level, the SuperJoy has fully featured control over any PTZOptics, HuddleCamHD, Sony, Birddog, Newtek and other PTZ cameras for select settings.

\$989

<https://ptzoptics.com/superjoy/>

Show Sage LLC

Medialon Show Control Solutions

Medialon show control solutions fit every presentation. Manager is a software-based solution that can control any AV equipment using any protocol and network. Showmaster are a range of hardware-based control devices for controlling and synchronizing dimmers, lighting desks, projectors, video servers, audio processors, and special effects.

<https://showsage.com/medialon/>

Show Sage LLC

PIXILAB Blocks

Blocks is software for producing and managing experiences for museums, exhibitions, visitor centers and corporate presentations. It features a unique mix of content and display management, control system capabilities, interactive presentation and mobile guide functions. Blocks is also integrated to work with WATCHOUT to start servers, projectors, and auxiliary timelines.

<https://showsage.com/pixilab-blocks>

UNIFIED COMMUNICATIONS



Crestron Electronics, Inc. AirMedia® Wireless Presentation System



The next generation of AirMedia® Wireless Presentation Systems seamlessly connect presentation, collaboration, and display capabilities together for the enterprise workspace on the Crestron Flex digital workplace platform. AirMedia supports wireless content sharing and conferencing from any device, whether BYOD or on in-room displays, and between either internal teams or guests.

<https://www.crestron.com/Products/Featured-Solutions/AirMedia>



Crestron Electronics, Inc. Crestron Flex



Crestron Flex is the single platform for all digital workplace technology needs. Meetings are more efficient and effective because Flex provides purpose-built devices for every space and application, while delivering a consistent user experience throughout your organization. Rooms are now easier to use, limiting stress on employees and IT resources.

<https://www.crestron.com/Products/Featured-Solutions/Flex-Homepage>



Crestron Electronics, Inc. Room Scheduling



Crestron Flex room scheduling enables you to find and book the right space with the right technology quickly and efficiently. You can easily identify and book open spaces for scheduled meetings, book a desk for the day, and easily see available spaces for ad hoc meetings or independent work sessions.

<https://www.crestron.com/Products/Featured-Solutions/Room-SchedulingHomepage>



Middle Atlantic Products Hub



Designed to maximize equipment storage and cable management, Hub is a technology-ready, all-in-one furniture solution for UC&C environments including huddle, active learning, and videoconferencing spaces. Available in numerous colors and configurations, each Hub consists of a TechPed™ Technology Pedestal featuring rackmounting space, an integrated power strip and Lever Lock™ accessories for small device mounting, a tabletop that includes an InteGreat™ table box with two HDMI cable retractors, and a display wall mount with power strip.

Check with distributor for pricing

<https://www.middleatlantic.com/hub.aspx>



Blustream AMF41W

The AMF41W is an advanced 4K multi-format presentation switch featuring four HDMI, AirPlay and Miracast inputs to a single HDMI output that supports resolutions up to 4K UHD 60Hz 4:2:0/4K 30Hz 4:4:4. It features localized 2.4/5GHz Wi-Fi hotspot, seamless switching, multiview presentation, video scaling, and a web GUI for simple control and configuration. The AMF41W includes auto display control via RS-232, manual, or automated source selection, and control via front panel, RS-232, and TCP/IP.

<https://www.blustream.co.uk/amf41w>



RTI VXP-82 8x2 All-in-One Presentation Switcher & Control Processor

The VXP-82 combines a robust control processor with a built-in Audio/Video presentation switcher to deliver a single-box solution for conference rooms, classrooms, and lecture halls. VXP-82 enables control from any RTI touch panels, keypads, remote controls, or mobile apps, while the 8x2 switcher distributes Audio/Video signals over HDMI and HDBaseT simultaneously to up to two rooms. Existing in-room USB web conferencing cameras, microphones and speakers can be connected and switched as well as traditional analog or digital audio and video sources such as computers / laptops, document cameras, media servers and streamers, DVD players, and microphones.

Thus, the VXP-82 is ideal for BYOD settings and social distancing office configurations. KVM control over USB allows for multiple presentation control options using USB keyboards and mice in different spots in the same or secondary room. Additional features include a 4K video scaler and an audio mixer.

<https://www.rticontrol.com/vxp-82-8x2-all-in-one-control-processor-av-presentation-switcher.html>



RTI

VXU-SC Video Conferencing & Collaboration System

The VXU-SC Video Conferencing & Collaboration System is the perfect solution for simple, cost-effective media sharing and collaboration in classrooms and meeting spaces. The transmitter and receiver pair, provide AV switching, video and USB extension, allowing multiple users to easily interact with software-based conferencing solutions such as Zoom®, Microsoft Teams®, Microsoft Skype®, Cisco WebEx® and Citrix GoToMeeting®.

The VXU-SC transmitter is equipped with HDMI, Display Port, VGA and USB-C inputs, enabling a wide range of devices to share video content. Built-in USB inputs allow shared mouse and keyboard control from all connected devices including PCs, laptops, and interactive displays. The kit also extends USB, allowing inexpensive USB webcams and microphones to be utilized. To eliminate cable clutter, all audio, video, data, control, USB, and Ethernet transmission between the VXU-SC transmitter and receiver is carried over a single HDBaseT link up to 328 feet (100 meters).

<https://www.rticontrol.com/vxu-sc.html>

BenQ

CP8601K DuoBoard

BenQ's DuoBoard features everything meeting participants need: HD camera, speakers, a six-microphone array, video conferencing, and cloud-based screen sharing, and annotation. This all-in-one 4K UHD premium IFP accesses files from any software service. For unparalleled multitasking, two DuoBoards can be synced to create a large immersive uninterrupted interactive surface.

\$11,999

<https://www.benq.com/en-us/business/ifp/cp8601k.html>

BenQ

InstaShow S Wireless Presentation System

InstaShow S WDC20 wireless presentation system is built for network-free, software-free collaboration. The InstaShow S button can connect to nearly any device using an HDMI port and is the most affordable system to securely mirror up to four screens or sources simultaneously at 4K resolution and with up to 32 users to connect.

\$1,499

<https://www.benq.com/en-us/wireless-presentation/instashow/wdc20.html>

Biamp

Devio™ SCX

Biamp's Devio™ SCX conference room signal processors deliver extraordinary audio with groundbreaking deployment ease and speed. Leveraging Biamp Launch, they automatically identify every device in the system, measuring acoustic characteristics and applying signal processing, AEC, speaker tuning, and noise reduction. Devio SCX supports Biamp Parlé™ microphones and other network peripherals.

<https://www.biamp.com/products/product-families/devio/medium-large-room-solutions#devio-scx-400>

Biamp

Tesira TEC-X AV control

Tesira TEC-X AV control pads provide cost-effective, intuitive interfaces for presentation spaces and conference rooms. Equipped with an LCD, the TEC-X 2000 is PoE powered (IEEE 802.3at Class 2, 7W), wall-mountable, and daisy chainable. TEC-X 2000 supports all TTP commands and can be quickly programmed and customized within Tesira software.

<https://www.biamp.com/products/tesira-controls>

Biamp

TesiraFORTÉ™ X Series

The TesiraFORTÉ™ X Series is a range of premium meeting room processors that combine advanced signal processing with streamlined network connectivity in a compact design. The TesiraFORTÉ X Series supports both Dante™ and AVB out of the box. There are three models in the series: four, eight or 16 channels

<https://www.biamp.com/products/tesira-compact-audio-dsp>

C2G

Conference Room Video Hub

C2G's Conference Room Video Hub enables up to four users to share 4K content from up to four laptops and tablets over a single HDMI cable. Easy to install, CEC control connects the Video Hub to the correct TV input. Completely plug-and-play, no software, app, or driver is necessary.

<https://www.cablestogo.com/product/29974/conference-room-video-hub-hdmi-and-usb-c>

C2G

Retractable Universal 4K HDMI Dongle Adapter Ring

Attachable to any flat surface, C2G's Retractable Universal Mount 4K HDMI Dongle Adapter Ring includes the adapters to connect nearly any device to an in-room display, while supporting video resolutions up to 4K. The adapter ring features color-coded HDMI-to-DisplayPort, Mini DisplayPort, and USB-C dongle adapters, saving users time and frustration.

<https://www.cablestogo.com/tech/hdmi-adapter-rings>

Hall Technologies

EMCEE200

A multiview presentation switcher with Picture-in-Picture (PIP) and Picture-Over-Picture (POP) capabilities. It can process up to four 4K@60 video sources with zero latency and gives "CONFIDENCE" and "PRESENT" HDMI outputs in different window layouts. With a built-in dual MIC mixer and a wide range of Audio Embedding and DeEmbedding options.

<https://halltechav.com/product/emcee200/>

Yamaha Unified Communications

ADECIA

ADECIA, a family of communication products designed to work together seamlessly to provide a complete and customizable audio solution for any classroom or meeting space. Comprising the brand-new multi-beamforming RM-CG ceiling microphone and RM-CR audio processor, as well as Yamaha's long-trusted PoE switches and VXL Series line array speakers.

<https://uc.yamaha.com/products/microphone-systems/adecia/>

Yamaha Unified Communications

ESB-1090 Sound Bar

The ESB-1090 solves common challenges and limitations in sound output to create a rich, premium audio experience for remote conferencing, classrooms, hotel guest rooms, lobbies, or meeting rooms. Optimizing the audio for each of these environments, the ESB-1090 features three modes, allowing users to opt between Conference, Education, and Hotel.

<https://uc.yamaha.com/products/video-sound-bar/esb-1090/>

VIDEO CONFERENCING



RTI

VXU-SC Video Conferencing & Collaboration System

The VXU-SC Video Conferencing & Collaboration System is the perfect solution for simple, cost-effective media sharing and collaboration in classrooms and meeting spaces. The transmitter and receiver pair, provide AV switching, video and USB extension, allowing multiple users to easily interact with software-based conferencing solutions such as Zoom®, Microsoft Teams®, Microsoft Skype®, Cisco WebEx® and Citrix GoToMeeting®.

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<https://www.rticontrol.com/vxu-sc.html>

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<https://www.biamp.com/products/tesira-compact-audio-dsp>

Comprehensive Connectivity Company

4K HDMI to USB 3.0 Capture Device

Capture meetings, presentations, and security footage directly to your computer with the CSD-4KCD150 HDMI video capture device. The CSD-4KCD150 allows you to capture up to a UHD 4K60 HDMI video signal and send it to your computer over a USB 3.0 interface, automatically downscaled to 1080p60 for easy video streaming.

\$120.99

<https://comprehensiveco.com/products/4k-hdmi-to-usb-3-0-capture-device.html>

Comprehensive Connectivity Company

Pro AV/IT Active USB 3.0 A Extension Cables

Comprehensive's USB 3.0 active extension cable is a bus powered extension cable that is used to increase the extended distance of USB 3.0 up to 50ft. Perfect for All USB 3.0 Extension Applications including Video Conferencing. It extends webcams, PTZ cameras, Oculus rift sensors, USB Hubs and other digital devices.

\$119.99

<https://comprehensiveco.com/active-usb-cables.html>

VIDEO CONFERENCING

Comprehensive Connectivity Company SimpliShare 4K Presentation Adapter Cable

Comprehensive's SimpliShare™ SSH-500T 4K Presentation Adapter Cable is the perfect solution for office, huddle space and conference room applications. It allows connection for various devices that come with USB-C, HDMI or Mini DP video output to any HDMI 4K display or projector that delivers resolutions up to 4K@60 18G.

\$139.99

<https://comprehensiveco.com/products/simplishare-4k-presentation-adapter-cable.html>

EPOS EPOS EXPAND Vision 3T

Certified for Microsoft Teams Rooms, the EXPAND Vision 3T all-in-one video bar is designed specifically for focus and small meeting rooms of up to 7 participants. With intelligent picture framing, enhanced PTZ, voice tracking and EPOS AI™ noise cancellation technology, the experience is as good as being there in person.

\$1,549.00

<https://www.eposaudio.com/en/us/enterprise/products/expand-vision-3t-bluetooth-collaboration-bar-1000927>

EPOS EPOS EXPAND Vision 3T

Certified for Microsoft Teams Rooms, the EXPAND Vision 3T all-in-one video bar is designed specifically for focus and small meeting rooms of up to 7 participants. With intelligent picture framing, enhanced PTZ, voice tracking and EPOS AI™ noise cancellation technology, the experience is as good as being there in person.

\$1,549.00

<https://www.eposaudio.com/en/us/enterprise/products/expand-vision-3t-bluetooth-collaboration-bar-1000927>

HuddleCamHD HuddleCamHD Pro

The HuddleCamHD Pro is a webcam that takes video conferencing and live streaming to the next level. The electronic pan, tilt, zoom webcam captures beautiful video in 4k and can zoom just like a broadcast PTZ camera with lossless digital zoom. The camera includes an IR remote perfect for video framing.

\$329

<https://huddlecamed.com/pro/>

HuddleCamHD HuddleCamHD Pro IP

The HuddleCamHD Pro IP is a 4K NDI® webcam that brings IP video to any live stream or video conferencing project. The camera features EPTZ controls that work inside most NDI-compatible applications to capture and control the camera from anywhere on the network. For easy in-room control, the camera also includes an IR remote.

\$549

<https://huddlecamed.com/ndi-webcam/>

VIDEO CONFERENCING

Magewell **USB Capture family**

Magewell's plug-and-play USB Capture devices are the easiest and most reliable way to bring wired screen shares or higher-quality cameras into Zoom™, Skype®, Teams®, GoToMeeting® and other popular conferencing software. Available with HDMI or SDI inputs, they capture AV signals over USB 3.0 into Windows, Mac or Linux software.

Pricing on request

<http://www.magewell.com/capture/usb-capture>

PTZOptics **PTZOptics PT-20X-SDI**

The PTZOptics PT-20X-SDI camera was designed for professional video productions. This robotic camera features simultaneous SDI and HDMI outputs at 1080p 60Hz. The PT-20X-SDI's game-changing optics and variety of control options, including both serial and IP, offers video professionals the quality and flexibility they need.

\$1,869

<https://ptzoptics.com/sdi/>

PTZOptics **PTZOptics PT-30X-NDI**

The PTZOptics PT-30X-NDI camera supports power, video/audio, and control over a single Ethernet cable, simplifying the installation and setup of live streaming systems. With an optical zoom lens of up to 30X, the PTZ camera features broadcast frame rates and NDI® video output favored by video production professionals.

\$2,419

<https://ptzoptics.com/ndi/>

PTZOptics **PTZOptics PT-EPTZ-ZCam**

The PTZOptics PT-EPTZ-ZCam is an electronic pan, tilt, and zoom camera. Instead of robotic movement, the built-in EPTZ functionality stimulates pan, tilt, and zoom operations inside of a large resolution pixel space. With two unique SDI outputs, your production can effectively cut between wide and tight camera views from the same camera.

\$549

<https://ptzoptics.com/eptz/>

VIDEO DISTRIBUTION

Extron.

Extron

Quantum Ultra II



Quantum® Ultra II is the next generation of Extron videowall processors, providing advanced, future-ready connectivity and throughput capabilities. The expanded HyperLane® video bus delivers unmatched real time performance with a throughput of up to 500 Gbps while the Extron-exclusive Vector 4K scaling engine delivers best-in-class image upscaling and downscaling. The 18 Gbps HDMI connections on the 4K input and output cards support resolutions up to 4K/60 at 4:4:4 with full HDCP 2.3 compliance. Embedded HDMI audio from any source can be routed to each active canvas. The processor can support multiple videowalls with mixed resolutions and screen orientations. Flexible features include portrait and landscape

output support, output overlap, and custom output resolutions. For operation, RS-232, USB, and Ethernet interfaces provide direct connection to your control system. These features, capabilities, and much more ensure compatibility with today's displays for any size videowall.

<https://www.extron.com/quantumultra2>

Just Add Power

Just Add Power 3G 708POE transmitter



Just Add Power's 3G 708POE transmitter not only distributes video resolutions up to 4K Ultra HD with no latency over a single Cat 5e cable, it also features audio extraction from sources, allowing integrators to cost-effectively add a stereo analog audio output to their 3G Ultra HD over IP systems.

Contact for pricing

www.justaddpower.com

Just Add Power

Just Add Power 3G+ 767DSS Dante Sound System Transmitter



In addition to distributing Ultra HD and 4K video over a single Cat-5e cable, the 3G+ 767DSS transmitter adds compatibility with Dante and AES67 audio networks, with separate switching of audio and video. The transmitter is the first to support the Dante 7.1 chipset for the delivery of 8x8 channels.

Contact for pricing

www.justaddpower.com

VIDEO DISTRIBUTION

Just Add
Power

Just Add Power MaxColor™ 4K60 Series



Just Add Power's new MaxColor™ 4K60 series natively supports 4K60 in and out, allowing end-users to play 4K Ultra HD video from their growing number of 4K sources and devices. It leverages the existing network infrastructure for a fast, affordable 4K upgrade path and limitless matrix.

Contact for pricing

www.justaddpower.com

Just Add
Power

Just Add Power VBS-HDIP-3G 509POE daisy-chain receiver



Every installation can be highly customized with the Just Add Power VBS-HDIP-3G 509POE daisy-chain receiver. Leveraging legacy networks, installers can add multiple network devices at the endpoint or more receivers without Wi-Fi or pulling additional cabling while passing power to connected devices and distributing 4K video over a single Cat-5 cable.

Contact for pricing

www.justaddpower.com

Just Add
Power

Just Add Power Warp Engine Transmitter/Receiver



Just Add Power's Warp Engine transmitter/receiver lets installers venture beyond traditional grids and design eye-catching video walls with mixed and matched displays mounted at any angle. Unlike other such products, which are limited to custom graphics or static signage, Warp Engine works with any HDMI source for ultimate flexibility.

Contact for pricing

www.justaddpower.com

VIDEO DISTRIBUTION



Blustream Contractor Series IP50HD

The Blustream Contractor HD Video over IP distribution platform delivers AV and control signals over a 1Gb network. Using the industry-leading Blustream ACM200 control module, the IP50HD boasts simplified integration with third-party control platforms and uses the company's Drag and Drop TV visual control application, ensuring a seamless experience during installation and for the end user. The IP50HD-TX 1080p HDMI transmitter and the IP50HD-RX 1080p HDMI video scaling receiver use H.265 compression technology to deliver HDMI, as well as bidirectional IR, RS-232, and USB/KVM up to 100 meters over a standard network architecture. The transmitter includes a HDMI loop-out for cascading to multiple devices. Both devices can be powered via PoE from the network switch or locally should the switch not support PoE. With multiple configuration options available, the multicast HD solution is ideal for both residential and commercial installations.

<https://www.blustream-us.com/contractor-1080p-video-over-ip-hardware>



Blustream HEX18G-KIT

For installations requiring the highest video quality possible, the HEX18G-KIT delivers 4K 60Hz 4:4:4 UHD, HDR10/10+, and Dolby Vision up to 328 feet over a single Cat6A cable.

The HEX18G-KIT supports the HDMI 2.0 18Gbps specification, including 4K 60Hz 4:4:4 UHD video, and HDCP 2.3/2.2. The HEX18G-TX transmitter and HEX18G-RX receiver support uncompressed distribution of the latest HDR resolutions – including HDR10/10+ and Dolby Vision – for the ultimate in picture quality. HDMI re-clocking on the HDBaseT receiver helps to resolve HDMI HDCP, compatibility, and handshaking issues. The extender set supports all known HDMI audio formats – including Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, and DTS-HD Master Audio transmission – in addition to bi-directional IR, RS-232, and power over cable (PoC).

<https://www.blustream.co.uk/hex18gkit>



Blustream HEX70ARC-KIT

The new HEX70ARC-KIT extender provides enhanced HDBaseT integration with the latest AV receivers and soundbars. Purpose-built for integrators requiring reliable ARC delivery via both HDMI and optical sources, the device distributes HDMI, ARC, optical audio return, bi-directional IR, and bi-directional power over cable (PoC) up to 40 meters at 4K 60Hz 4:2:0 and 70 meters at 1080p.

<https://www.blustream-us.com/hex70arckit>

VIDEO DISTRIBUTION



Blustream HMXL66ARC and HMXL88ARC

Using color space conversion (CSC) technology, the 6x6 HMXL66ARC and 8x8 HMXL88ARC HDBaseT matrixes support 4K 60Hz 4:4:4 resolutions over distances of 40 meters via a single CAT-6 cable. Both devices offer advanced audio features designed specifically for integrating all AV sources in the system. Each features an integrated audio matrix for enhanced audio routing, and via ARC, enables the audio from displays and all other sources to be embedded and routed through the system at the user's discretion.

<https://www.blustream-us.com/8x8-hdbaset-matrix>



Blustream IP250UHD

The IP250UHD video-over-IP platform distributes AV and control signals over a 1Gb network, using visually lossless compression technology to deliver HDMI, Dante, bi-directional IR, RS-232, and USB/KVM signals up to 328 feet over a standard network architecture, or further when using the units' fiber SFP port. The IP250UHD-TX and IP250UHD-RX support independent or combined HDMI and/or Dante signal distribution to work with any network configuration. The IP250UHD-TX includes an HDMI loop-out for integrating local displays or cascading to multiple devices. Both the transmitter and receiver can be powered via PoE from the network switch or locally should the switch not support PoE. With multiple configuration options available – including matrix distribution, video wall presentation, one-to-one HDMI extender, and one-to-many HDMI extender – the multicast platform is ideal for both residential and commercial installations.

<https://www.blustream.co.uk/ip250uhdtx>



Blustream RX70CS

Designed to work in conjunction with the new matrixes, the RX70CS HDBaseT CSC receiver extends HDMI, bi-directional IR, and RS-232 signals up to 40 meters at 4K 18Gbps and up to 70 meters at 1080p. The device supports HDMI 2.0 and enables ARC control when used with the HMXL66ARC, HMXL88ARC, or other compatible Blustream solutions. In addition, the RX70CS supports simultaneous analog stereo and optical TOSLINK audio breakout.

<https://www.blustream-us.com/rx70cs>



Blustream SW41HDBT

The SW41HDBT four-way HDMI 2.0 4K 60Hz 4:4:4 HDBaseT switch is ideal for boardrooms, classrooms, and huddle spaces. Using CSC technology, the device delivers HDMI and HDBaseT inputs to simultaneous HDMI/HDBaseT outputs. The versatile SW41HDBT provides enhanced features, including PoC to power-connected Blustream transmitter and receiver products; a web GUI for configuration and source and display control via CEC; manual or automated source selection; RS-232 pass-through; and control via the front panel, IR, RS-232, and TCP/IP.

<https://www.blustream-us.com/sw41hdbt>

VIDEO DISTRIBUTION



RTI

VX88-18G-8 8 x 8 4K HDBaseT™ Matrix

The 8x8 HDBaseT™ Matrix combines exceptional performance with outstanding value for custom integrators world-wide. The VX88-18G is a HDMI 2.0 4K 60Hz 4:4:4 HDCP 2.2 matrix using Color Space Conversion (CSC) technology to deliver HDMI, Bi-directional IR and PoC up to lengths of 70m over a single CAT cable. The Matrix delivers advanced features including simultaneous HDBaseT™/HDMI on output 1, video down-conversion on HDBaseT™ outputs and a web browser interface module for simple configuration of the Matrix. The 8x8 HDBaseT™ Matrix combines exceptional performance with outstanding value for custom integrators world-wide. The VX88-18G is a HDMI 2.0 4K 60Hz 4:4:4 HDCP 2.2 matrix using Color Space Conversion (CSC) technology to deliver HDMI, Bi-directional IR and PoC up to lengths of 70m over a single CAT cable. The Matrix delivers advanced features including simultaneous HDBaseT™/HDMI on output 1, video down-conversion on HDBaseT™ outputs and a web browser interface module for simple configuration of the Matrix.

<https://www.rticontrol.com/vx88-18g-8-x-8-4k-hdbaset-matrix-switcher.html>



RTI

VXP-82 8x2 All-in-One Presentation Switcher & Control Processor

The VXP-82 combines a robust control processor with a built-in Audio/Video presentation switcher to deliver a single-box solution for conference rooms, classrooms, and lecture halls. VXP-82 enables control from any RTI touch panels, keypads, remote controls, or mobile apps, while the 8x2 switcher distributes Audio/Video signals over HDMI and HDBaseT simultaneously to up to two rooms. Existing in-room USB web conferencing cameras, microphones and speakers can be connected and switched as well as traditional analog or digital audio and video sources such as computers/laptops, document cameras, media servers and streamers, DVD players, and microphones. Thus, the VXP-82 is ideal for BYOD settings and social distancing office configurations. KVM control over USB allows for multiple presentation control options using USB keyboards and mice in different spots in the same or secondary room. Additional features include a 4K video scaler and an audio mixer.

<https://www.rticontrol.com/vxp-82-8x2-all-in-one-control-processor-av-presentation-switcher.html>

C2G

HDMI® HDBaseT Extenders

Supporting resolutions up to 4K at 60Hz, C2G's family of HDMI® HDBaseT Extenders delivers uncompressed HDMI video and audio signals – in addition to VGA, IR, RS232, USB-C, USB 2.0, and analog audio – up to 328 feet over a single network patch cable to displays in conference rooms, classrooms, and more.

<https://www.cablestogo.com/category/hdmi/hdmi-extendere>

VIDEO DISTRIBUTION

Comprehensive Connectivity Company **MicroFlex Pro AV/IT 4K60 18G HDMI Cables**

Comprehensive's MicroFlex Pro AV/IT 4K60 18G HDMI cables were designed specifically for the tight spaces encountered by commercial and residential system integrators as well as technology professionals. They support 4K@60Hz 4:4:4 18Gbps and feature SureLength Indicators, ProGrip Connectors, 7 colors, a zero bend radius and lengths up to 35ft.

\$17.99

<https://comprehensiveco.com/microflex-4k60-18g-hdmi-cables.html>

Comprehensive Connectivity Company **Pro AV/IT HDBaseT 4K60 HDMI, USB-C, USB 2.0, Audio over CATx Single Gang Wall Plate Extender TX/RX Kit up to 230ft**

Extend 4K HDMI, Audio and USB 2.0 High Speed Signals over a Single UTP Cable up to 230ft. Comprehensive's CHE-HDBTWP125MC is a 2x1 4K@60Hz Wall Plate Extender with HDMI and USB-C inputs. The USB-C input provides an ideal AV interface for connecting Apple® notebooks, Windows® PC's, smartphones and tablets.

\$699.99

<https://comprehensiveco.com/products/pro-av-it-hdbaset-4k60-hdmi-usb-c-usb-2-0-audio-over-catx-single-gang-wall-plate-extender-tx-rx-kit-up-to-230ft.html>

KLIKBoks, Inc. **KLIK Knkt USB-C (KB460)**

KLIK is leading the way in wireless presentation systems with the broadest available offering. The KB460 adds wireless streaming from any Win/Mac PC with its single-cable USB-C connector. Plug in, push one button, and stream full-HD content to any KLIK receiver from the impossibly small KLIKStik to the incredible HUB.

The KB460 is available as an add-on to any existing KLIK system or as part of a bundle with one or more KB460 and a KLIK receiver of your choice.

Contact us for pricing.

<https://www.klikboks.com/klik-knkt-usb-c>

KLIKBoks, Inc. **KLIKBoks HUB (KB1200)**

KLIK is leading the way in digital collaboration and wireless screen sharing for Business, Education & Government. Offering quad split-screen 4K display output, onboard Live Streaming capability, Guest Hotspot, Google Cast & AirPlay support, and over 20 class-leading features, KLIKBoks HUB is the category leader in flexibility, performance and value! KLIKBoks HUB is the value leader in sophisticated wireless collaboration systems and is available in various configurations including with hardware transmitters as needed.

Contact us for pricing information.

<https://www.klikboks.com/klik-boks-hub>

VIDEO DISTRIBUTION

KLIKBoks, Inc. **KLIKStik (KB301)**

Add wireless presentation capability to any screen with the industry's most capable and affordable wireless HDMI adapter, the KLIKStik. Works with Windows, Mac, iOS, Android & Chromebooks and supports AirPlay and Miracast for broad compatibility. The KLIKStik connects in seconds and sets up in under 5 minutes with KLIKWizard app.

\$149

<https://www.klikboks.com/klik-stik>

Magewell **Magewell Cloud**

The Magewell Cloud software provides centralized configuration and control of multiple Magewell streaming and IP conversion solutions plus powerful stream management features including protocol conversion and SRT relay. Magewell Cloud makes it easy for integrators, administrators, and IT staff to manage any number of encoders and decoders across multiple sites.

Free

<http://www.magewell.com/magewell-cloud>

Magewell **Pro Convert 12G SDI Plus**

Magewell's Pro Convert encoders let users easily and reliably bring traditional video signals into AV-over-IP infrastructures using NDI technology. The Pro Convert 12G SDI Plus converts single-link, 12G-SDI input signals up to 4K at 60 frames per second with embedded audio into full NDI streams with extremely low latency.

Pricing on request

<https://www.magewell.com/products/pro-convert-12g-sdi-4k-plus>

Magewell **Pro Convert for NDI to HDMI 4K**

The Pro Convert for NDI to HDMI 4K decodes NDI®, H.264 or H.265 streams up to 4K/60fps into high-quality HDMI outputs for connection to monitors, projectors and legacy equipment. It simplifies using AV-over-IP and internet streams (including SRT and RTMP) in multi-site video distribution, IMAG, video walls and digital signage.

Pricing on request

<http://www.magewell.com/products/pro-convert-for-ndi-to-hdmi-4k>

Magewell **Pro Convert for NDI to SDI**

Pro Convert decoders simplify the use of NDI® AV-over-IP technology in applications including multi-site video distribution, IMAG, video walls, digital signage and remote production. The Pro Convert for NDI to SDI transforms IP streams up to 1080p60 for output via SDI, and also decodes standard streaming protocols including SRT.

Pricing on request

<http://www.magewell.com/products/pro-convert-for-ndi-to-sdi>

VIDEO DISTRIBUTION

Magewell

Pro Convert HDMI 4K Plus

Magewell's Pro Convert encoders seamlessly bridge traditional AV signals with NDI-based AV-over-IP infrastructures. The Pro Convert HDMI 4K Plus supports inputs up to 4K at 60fps over its HDMI 2.0 interface, transforming them into NDI streams with extremely low latency. Automatic input format detection and DHCP-based networking enable plug-and-play operation.

Pricing on request

<http://www.magewell.com/products/pro-convert-for-ndi-to-hdmi-4k>

Magewell

Ultra Encode family

Supporting multiple encoding formats – including H.264, H.265, and NDI®|HX – and a wide array of delivery protocols, Ultra Encode universal live media encoders offer integrators and AV professionals a flexible and affordable encoding solution for applications ranging from live streaming over the internet to multi-site video distribution and AV over IP.

Pricing on request

<http://www.magewell.com/ultra-encode>

Mauell Corporation

Xomnium

Xomnium is a software-based AV over IP solution designed for flexibility and expandability. Integrators can choose the appropriate hardware for each video destination based on needs. Content can easily be sent to video walls, conference room or digital signage displays, or user workstations. Contact Mauell for a personalized Xomnium demonstration.

<https://www.mauell.com/technologies/xomnium/>

NewTek

3Play® 3P2

The NewTek 3Play® 3P2 video replay and telestration system delivers instant replays for sports productions and ensures unparalleled connectivity and efficiency across the production workflow. New features include increased inputs, shareable playlists, pan-and-scan areas of interest, built-in NewTek NDI® Telestrator capabilities, clip publishing and more in pristine 4K.

<https://www.newtek.com/3play/3p2/>

NewTek

NewTek NC2 Studio Input/Output Module

The NewTek NC2 Studio Input/Output Module delivers connectivity solutions for media production professionals. The NC2 Studio I/O Module breaks down barriers to visual storytelling, uniting SDI equipment and infrastructure with the flexibility of IP networks. The module connects multiple video and audio formats, including NDI® and SDI.

<https://www.newtek.com/connect/nc2-io/>

VIDEO DISTRIBUTION

NewTek

TriCaster® 2 Elite

TriCaster® 2 Elite provides visual storytellers with 'better than broadcast' functionality and uncompromised flexibility. In addition to cutting-edge video production capabilities, TriCaster 2 Elite enables studios, broadcasters, large scale campuses, and enterprise facilities to harness nearly every major video calling application, delivering a myriad of creative options.

<https://www.newtek.com/tricaster/2-elite/>

Vanco International

Evolution 4K 8x8 HDBaseT™ Audio and Video Matrix Switcher

The Vanco Evolution 4K 8x8 HDBaseT™ Audio and Video Matrix sends up to 8 HDMI signals to up to 8 HDBaseT outputs, with mirrored HDMI outputs. It transmits 4K@60Hz, 4:4:4, and HDR up to 131 feet/40m over Cat6. It can also send audio to up to 8 zones.

Contact for pricing

<https://www.vanco1.com/product/4k-hdbaset-8x8-matrix-with-arc-ir-ip-and-rs-232/>

Vanco International

Evolution 4K HDR Extender with Digital Audio Breakout, HDMI Loop-out, IR, and PoE

Vanco Evolution 4K HDR Extender delivers HDMI signals at 4K@60Hz up to 70m over Cat6 with zero latency. Bi-directional PoE allows both transmitter and receiver to use a single power supply. Features an HDMI loop-out and digital optical audio output, and bi-directional IR control.

Contact for pricing

<https://www.vanco1.com/product/4k-hdmi-extender-with-digital-audio-breakout-hdmi-loop-out-ir-and-poe/>

Vanco International

Evolution HDvMI® Extender over Fiber with KVM USB Pass-through

The Evolution by Vanco EVEXFBRK1 extends 4K HDR video and audio signals up to 984ft/300M over multi-mode fiber optic cables, and 6.2mi/10km over single mode fiber optic cables and modules. Bi-directional IR pass-through allows for source and/or display control. The EVEXFBRK1 also features RS-232 pass-through for additional control.

Contact for pricing

<https://www.vanco1.com/product/hdmi-extender-over-fiber-with-kvm-usb-pass-through/>

Vanco International

Vanco 4K HDMI® to USB Video Capture Device with Audio Embedding and De-embedding

The Vanco CAPT4K1 allows an HDMI source to be streamed or recorded, resulting in converted content that can be viewed on computers and other capture software locally and/or remotely. The CAPT4K1 can embed and de-embed audio and connect to an HDMI display for recording and editing.

Contact for pricing

<https://www.vanco1.com/product/4k-hdmi-to-usb-video-capture-device-with-audio-embedding-and-de-embedding/>

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