

CANADIAN VERSION

AMAZING AV EXPERIENCES

eMagazine

THE FUTURE OF EDUCATION

MANAGE CLASSROOM POWER REMOTELY PG 30

Livestreaming Your
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LECTURE CAPTURE &
RECORDING FOR FLEXIBILITY
PG 24

CONNECTING TEACHERS AND STUDENTS

FROM ANYWHERE

Solving challenges with hybrid learning solutions.

We are continually awed by educators at the nation's schools and universities who rise every day to face new challenges with creative lesson plans and unwavering grit.

AV solutions are vital in connecting classrooms by equipping teachers with easy-to-use tools that boost engagement. Flexible, budget-friendly technology furnishes multi-use spaces and hybrid classrooms so educators can focus on what they do best – teaching and inspiring students.

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THE FUTURE OF EDUCATION

Letter from the Editor

Steve Durkee
President of Legrand | AV

Throughout this time of immense change, the education system has provided us with countless examples of resilience, finding ways to connect and engage within the challenging circumstances brought by the pandemic. We can all learn a lot from the examples set by schools.

Here at Legrand | AV, we want to give back to the educators, administrators and technologists who have worked so hard to keep classrooms connected. With the resources shared in this issue of Amazing AV Experiences, and through the ongoing efforts of our Solutions Engineering and Consultant Teams, we want to provide support and expansive ideas on how educational institutions can transform temporary modes of connection into the next wave of interactive classrooms.

We have heard countless stories from the field of education as adjustments were improvised across various phases of closing and reopening. Across this multitude of experiences, we have learned that agility is key because each classroom is different. Every student and educator brings their own perspective and needs, and to meet those requirements, we have seen remarkable innovations that humanize the technology we depend on for remote and socially distanced learning.

Much of the knowledge gained from this rapid evolution can inform how we build the classroom of the future. With so many institutions providing a mix of live instruction and recorded course material over the past year, expectations have changed. Now there is a new baseline for increased flexibility in how educational content is shared and reviewed.

Because of this new media-centric expectation, there will be an enhanced need for cameras, video recording and sharing systems, multi-touch displays and larger projection screens for better remote and in-person viewing. And portable options, mobile carts outfitted with video streaming equipment and other digital learning tools, are also adding new capabilities to immersive and active learning environments. Even extracurricular activities will be more connected, with the ability to capture and stream sports, school concerts and theater productions.

In many ways, this crisis has brought the classroom of the future into the present, accelerated by the need to provide instruction across a multitude of hybrid in-person and remote scenarios. But rather than seeing these technology implementations as a temporary stop-gap, we hope that Legrand | AV and its network of professional AV systems integrators can help design and install solutions that will ready classrooms and learning facilities for a future of enhanced connectivity.

Throughout this time of challenge and change, we have been listening and learning. The situation in K-12 and higher-education is still evolving, but we are hearing that the need for technology in classrooms will continue to expand. Our intention moving forward is to be flexible, capable and provide a conduit for the best experiences in education. By sharing knowledge and resources to address the specific requirements that make individual schools successful, we hope to inspire and support the educators and technology experts who make high-tech learning more human.

“Now there is a new baseline for increased flexibility in how educational content is shared and reviewed.”

Steve Durkee

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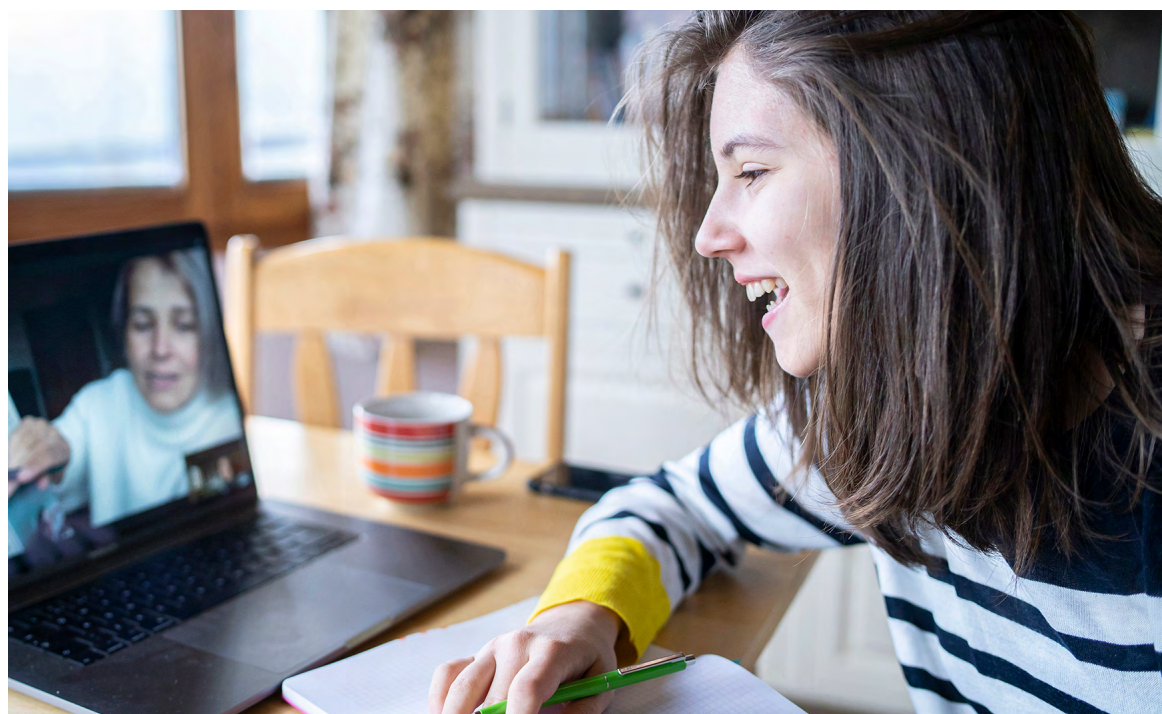
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EDUCATION FUNDAMENTALS

FUNDAMENTALS FOR THE CONNECTED CLASSROOM

For so many of us, an abundance of new technology suddenly became a part of everyday life when remote learning became a necessity. Cameras, livestreaming equipment, interactive tools and countless other cables, mounts and accessories have been combined in a big connectivity puzzle. And in many cases, these tools are here to stay, as hybrid and hyflex solutions continue to support a variety of learning needs.

Adapting to these tools has sparked much innovation and creativity in how educators connect with students, especially as they navigate the distance between in-classroom students and those who are learning from home. Lots of clever camera work, enhanced interactive access to content and plenty of screen sharing help to make everyone feel included. And when a complete AV solution is tailored to fit your classroom, whether it's in a school or in your home, it's as if the technology disappears and you can focus on teaching.

In the fullest commitment to education, we're all still learning, hearing stories about which tools work for what application, and what other additions might make it easier to manage a room full of students while more watch on screens at home. There are camera presets, picture-in-picture options, room microphones, rolling carts, cabling and power solutions that help extend the use just a little bit farther.

Keep reading for our best tips and techniques for connecting technology with a human touch.

HOW SCHOOLS ARE PREPARING FOR HYBRID LEARNING

As industries slowly return to normal, they're looking toward AV to find a balance between social distancing and resuming operations. This is especially relevant in education, as schools find a balance for a range of in-classroom and remote learning modalities. Hybrid learning looks like it's here to stay, with the extra flexibility and accessibility it provides.

As administrators consider different ways to re-open, it's vital to understand the three popular approaches many schools are taking to distance learning: Synchronous, Asynchronous and Hybrid solutions. Read on for information on these three different learning solutions.





It's important to keep RTMP and RTSP streaming in mind when integrating hardware. Luckily, Vaddio makes it simple as products like the RoboSHOT 40 UHD camera and the AV Bridge Mini Audio/Video Encoder support both RTMP and RTSP. For more information on RTMP and RTSP streaming, [click here](#).

HYBRID

Of course, the choice isn't exclusive. Many institutions are choosing a hybrid solution that uses both synchronous and asynchronous distance learning. This may take the form of shorter synchronous lessons supplemented with recorded mini-lectures, or a primary asynchronous environment with teachers routinely checking in via livestream. Facilities taking a hybrid approach will require equipment for both lecture capture and livestreaming needs.

Distance learning has never been more important, and integrators will have a vital role to play when education institutions open up in the fall. Keep your eye on the Legrand | AV website for additional marketing resources for the education sector.

ASYNCHRONOUS LEARNING

An asynchronous approach to distance learning sees students learning at their own pace using content that has been pre-recorded separately by a teacher. With the amount of disruption children's lives have received in the wake of COVID-19, allowing them to learn on a schedule that works for their family can be a major advantage. This format can also allow educators to break their lectures up into shorter videos, which can help keep students engaged with the content.

Facilities using asynchronous distance learning should be outfitted with lecture capture technology, PTZ cameras and software to record their lessons for later viewing.


SYNCHRONOUS LEARNING

With synchronous learning, students and teachers meet and learn together in real time, usually through videoconferencing platforms like Teams or Zoom. This allows students to ask questions and receive instant feedback from their teachers. It can also help educators ensure that students are engaging with the content.

Facilities adapting to a synchronous distance learning strategy should be outfitted with livestreaming technology that will facilitate two-way communication.

Synchronous distance learning plans also have to consider using RTMP (Real-Time Messaging Protocol) or RTSP (Real-Time Streaming Protocol) for streaming purposes. Both are application layer protocols used to control media streams and are likely to be used in synchronous distance learning environments. What protocol is right for end-users is dependent on their use, as certain software may work better with a specific protocol. Furthermore, hardware may only work with RTMP or RTSP streaming.

3 TYPES OF DISTANCE LEARNING

	 1 Synchronous Learning	 2 Asynchronous Learning	 3 Hybrid or Hyflex Learning
Definition	Teachers & students learn together – sharing ideas and interacting at the same time	Students learn at their own pace on their own time	A combination of students learning online and face to face with a teacher.
Tools	Videoconferencing, webinars, phone calls, chat rooms	Online courses, email, blogs, recorded videos, recorded webinars	Videoconferencing with supplementary online courses or recorded webinars, or vice versa
Timing	Timing depends on teacher's schedule	Students login anytime to download assignments or to send messages to teachers or peers	Students are expected to both adhere to a teacher's schedule and interact with materials on their own time

CLASSROOM TECHNOLOGY IS EVOLVING

FROM WHAT'S NEW TO WHAT'S RELEVANT

Educators everywhere work tirelessly to overcome challenges with creative lesson plans that engage and inspire. We can help them in their mission to simplify distance and hybrid learning with innovative AV solutions.

Legrand | AV helps ensure students can hear and see the lesson no matter where they are while providing teachers with easy-to-use tools that enhance learning. Budget-friendly options allow AV resources to be shared between classrooms for superior efficiency. Legrand | AV's broad portfolio of brands provides one source for most education applications, and our stellar team is ready to assist at any stage of planning to deployment.

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FUNDAMENTALS VIDEOCONFERENCING & LIVESTREAMING



VIDEOCONFERENCING VS LIVESTREAMING



Connecting remotely starts with understanding the basics. Let's explore the difference between videoconferencing and livestreaming. They each use different equipment and serve different purposes; understanding which one suits your needs will help you find the right AV solution.

WHAT'S THE DIFFERENCE BETWEEN VIDEOCONFERENCING & LIVESTREAMING?

Videoconferencing refers to a multi-directional video communication between a small group of people. An office Zoom meeting, telehealth checkup, or remote visit with your family can all be considered videoconferencing. All of these allow multiple people to share their video with each other and communicate through this medium. If you're looking for ways to collaborate live with a handful of people, videoconferencing is the solution for you.

Livestreaming, on the other hand, sends one video stream to tens of thousands of viewers, sometimes even more. Livestreaming is used when there is one central speaker or video the audience can focus on. E-Sports events, distance learning, product launch reveals, and house of worship services are all likely to use livestreaming solutions. Livestreaming is the ideal solution if you are looking to speak to an audience rather than engage in a dialogue with a group.

NEW TO VIDEOCONFERENCING? HERE'S HOW YOU CAN IMPROVE YOUR SKILLS FROM ANYWHERE.

In the past year, we've seen multiple countries put on lockdown to slow the spread of coronavirus (COVID-19). Universities cancelled in-person classes. Airlines suspended flights to certain destinations. Large conferences were cancelled.

It's times like this that AV can be a helpful tool in maintaining productivity at work and school. Commercial Integrator has some good tips on how to adjust to working from home where new distractions and routines abound. However, we'd like to provide another resource to customers who may be slow to adjust to working remotely.



Nothing can beat a face to face meeting, but in times like these, videoconferencing becomes a necessity. Check out these tips from our expert team to make videoconferencing seamless from anywhere:



How to Set Up for Livestreaming for Online Training or Distance Learning

TIP 1

TURN THE VIDEO ON

If you aren't visually impaired, you rely on sight as a huge part of human to human interaction. Be brave, turn that camera on and encourage others in the class to do the same. Everyone will feel more connected and engaged when they can see their teacher and peers.

TIP 2

CHECK AUDIO QUALITY

In general – Opt for a headset microphone (or anything closer to your face) over your built-in laptop microphone. When using a built-in microphone, the click of your keyboard keys will be a distraction.

From home – Plan accordingly. Make sure Fluffy won't be barking or that the local garbage truck has already made their rounds. Use the mute button when you are listening.

TIP 3

MANAGE YOUR BACKGROUND/ SURROUNDINGS

Especially critical from home – consider the background your camera will pick up before you join any class. Also, did you remember to lock the door? Don't park yourself in front of a bright window if using laptop cameras – you will look like a shadow as built-in cameras are bad at correcting for this bright light shining at it.

TIP 4

TEST YOUR SET-UP

Don't wait until the class has started to find out you don't have the updated program, a working mic, or a bad connection. Test out the program you'll be using ahead of time with a colleague and play with the settings to ensure everything is optimal and your voice is coming through.

TIP 5

GET THE RIGHT HARDWARE MINUS THE 'HARD'

We're partial to Vaddio, of course, but in times like this, you use what you have. Most laptops come equipped with cameras. Headphones with a mic are nice to keep meeting audio from disturbing others in the home.



USE A VIRTUAL BACKGROUND



DRESS FOR ONLINE SUCCESS



RECOGNIZE THAT YOU MAY NOT BE ALONE



VIDEOCONFERENCING

3 TIPS FOR CAMERA SHY BEGINNERS

BUELLER? BUELLER?

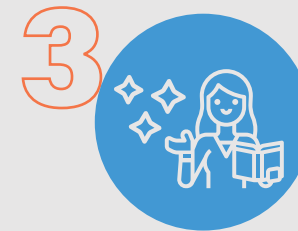
6 TIPS TO BOOST STUDENT ENGAGEMENT



1 BE PATIENT WITH TECHNOLOGY



2 EXPLORE FREE RESOURCES



3 EXTRA CREDIT FOR ENTHUSIASM



4 GET A HELPER FROM CLASS



5 CALL STUDENTS BY NAME



6 PRACTICE WITH AUDIO AND VIDEO

ONLINE TEACHING TIPS TO ENSURE A CONNECTED WORLD FOR INSTRUCTORS AND STUDENTS

Millions of students and instructors are still finding new ways to expand education offerings online. We're here to help. We have a long history in ensuring a connected world to help teachers and students keep learning.

Online distance learning programs have actually been growing in the last few years as higher-resolution video technology became more affordable. Instructors can reach a wider audience without losing the live interaction often necessary for learning.

Major cloud-based conferencing applications, including Zoom, Microsoft Teams and others, can help keep studies on schedule. If you are new to online teaching, here are some tips from our education and videoconferencing experts.



1

PATIENCE IS A VIRTUE

Be patient with technology. There may be bumps along the way. Your first day might just be getting the system up and running for students. Day two might be trying to figure out how to achieve certain tasks in the software. You'll get there.

2

EXPLORE FREE RESOURCES

Locate free services. Zoom has removed limits from the free version so affected K-12 schools are able to use more features. Microsoft has put together a helpful guide for remote teaching if you are new to the practice. Tech & Learning published a terrific list of resources.

3

EXTRA CREDIT FOR PIZZAZZ

Keep up engagement. Your in-class presence may not translate as well to computer screens. It's a hurdle to remember as you adjust your teaching style to sitting still in one place and are trying to work through a technical program while also speaking and interacting with students (see tip four). Enthusiasm helps. In a world of bloggers vying for attention, check out YouTube or TikTok personalities – see what they are doing well with your students and see what you might borrow.

4

TWO IS BETTER THAN ONE

It's a real challenge to teach, bring up your PowerPoint, switch to your doc cam, post polls, AND monitor the chat and respond all at once. Don't go it alone! Find a grad student or willing undergrad to be your helper (while maintaining social distance). Even if they just monitor the chat window, that's a great help.

5

CALL STUDENTS BY NAME

Keep your students on the edge of their seats. Call 'em out! And use those polls and emoticons. Have them use the agree and disagree icons, the applause and laughter emoticons. Keep broad-based questions such as, "What do you think?" or "Does everyone get it?" to a minimum.

6

CHANGE YOUR PERSPECTIVE

If you have another computer or laptop, login as a student so you can make sure what you're seeing, is what they're seeing. This saves time and confusion. You can also use picture-in-picture functions if you are sharing a presentation. Picture-in-Picture features help share your presentation and have your video on the screen at the same time.

WHAT DO I NEED TO KEEP MY VIDEO INTERACTIVE?

VADDIO AV BRIDGE 2X1

The AV Bridge 2x1 is a powerful presentation switcher that not only switches between two HDMI sources, but can combine those sources in multiple layouts for richer experiences. Those combinations are outlined in the examples below.

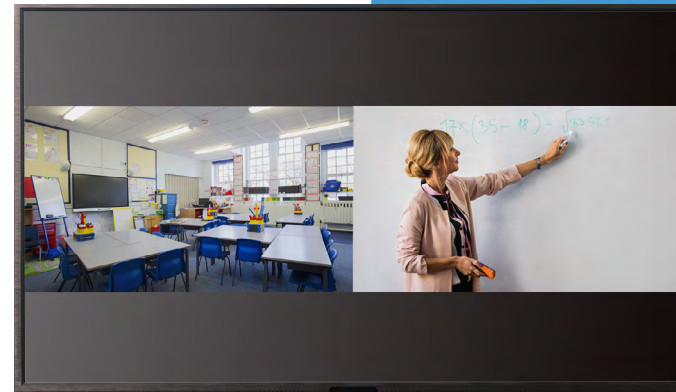
On screen graphics are an easy way to brand your video content or provide additional information to your audience. The AV Bridge 2x1 can save dozens of frequently used graphics for easy retrieval through the Vaddio Device Controller touch screen or other control system. Graphics can be placed anywhere on the screen. Some frequently used graphics are outlined in the examples below.



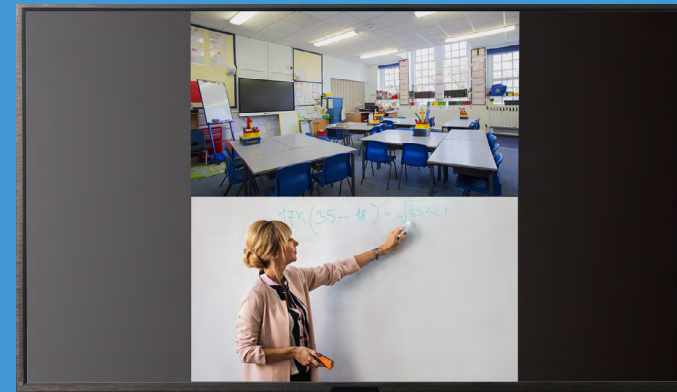
LAYOUT OPTIONS GALORE



FULL SCREEN



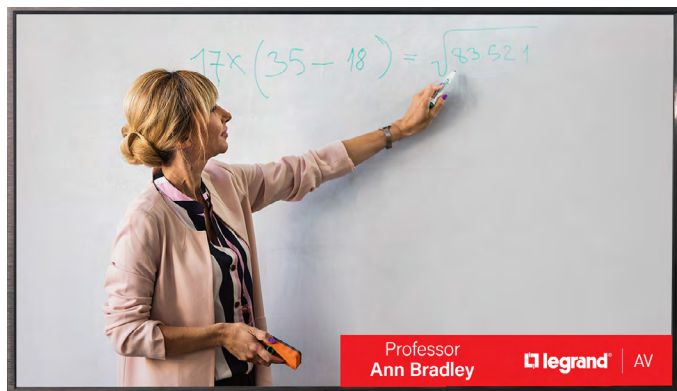
SIDE BY SIDE



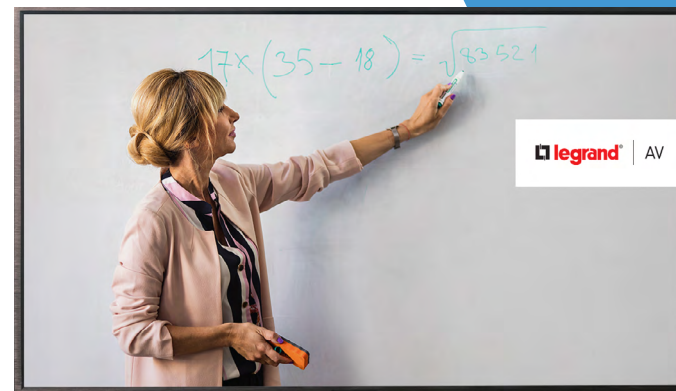
TOP & BOTTOM



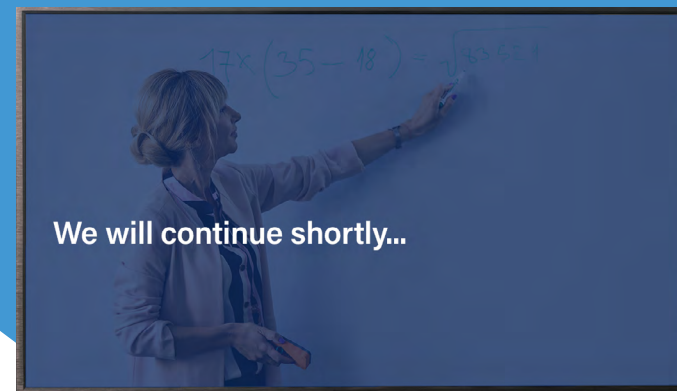
FOUR CORNER
(CHOOSE WHICH CORNER YOU WOULD LIKE THE INSET)



PRESENTER NAMES



LOGOS



TRANSPARENT FULL SCREEN



FULL SCREEN

HOW DO I MAKE SURE MY STUDENTS LOVE MY LESSONS?

With the challenges brought on by the pandemic, most educators had to move to distance learning for the first time. Legrand | AV has some tips on how teachers & professors can keep their students engaged. Keep reading or watch the video below to discover how.



1 USE PROFESSIONAL AUDIO

If you're new to remote teaching, odds are you're going to start by using your computer's internal microphone. While this is the simplest audio solution, it isn't the best solution. If you want to move to a whiteboard or flip chart, the internal microphone won't be able to pick up the audio from a distance. Instead, consider a professional quality microphone.

A Vaddio CeilingMIC allows you to be mobile and will pick up audio all around your room. You can use it in conjunction with your laptop, you can stand up, walk over to a whiteboard, and you'll be heard with great fidelity. If you're working from a home office and not thrilled about installing something in the ceiling, there are options like the Vaddio TableMIC that will provide a similar capability. While the product is stationary, it's designed to pick up audio from 15 feet away, unlike your laptop.

2 USE A PROFESSIONAL CAMERA

Similar to your microphone, beginners are likely to use the computer's internal webcam or worse, no camera at all. We've all heard the terminology "death by PowerPoint." Students need to see your face and body language to really keep them connected. And while these webcams will get the job done, they often adjust poorly to unique lighting conditions in a home environment.

Professional cameras like the ConferenceSHOT AV automatically adjust for lighting and ensure everyone can see clearly. In the remote learning context, this is especially important to ensure everyone can see visual aids, like whiteboards clearly. Mounting a professional camera at eye level will allow your lectures to feel more like a one-on-one conversation too.

3 PLACE CAMERA AT EYE LEVEL

This is the most realistic positioning to mimic a real face to face in person conversation. Make sure the camera angle isn't too low or too high, it can be distracting. Speak directly to your camera, talk to your audience!

4 USE PAN/TILT/ZOOM (PTZ) CAMERA FUNCTIONALITY

PTZ cameras like the ConferenceSHOT AV allow you to use camera presets or a remote control to pan, tilt, and zoom at appropriate times during distance learning sessions.

For educators, this allows for more dynamic lectures as you control the camera to keep your audience engaged. A stagnant shot can make it difficult to make lessons seem exciting, but a moving camera can create a more exciting experience and improve the quality of your lectures from home.

By following these four tips and downloading the system diagram, you can turn your at-home lectures into a more engaging, more professional presentation. Vaddio products are designed and manufactured in Minnesota, so they are in stock and ready to go for any of your needs. Just visit www.legrandav.com when you're ready to incorporate professional video and audio products into your next remote learning session.

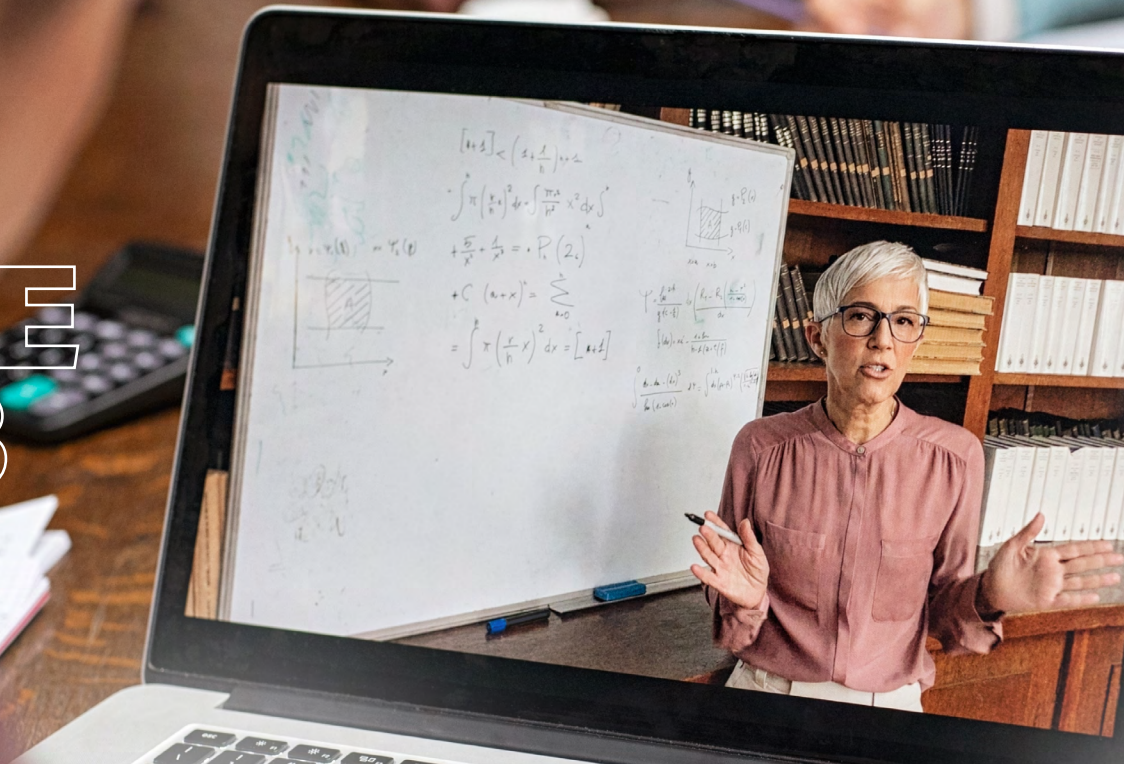
4

DO'S AND DON'TS FOR DISTANCE LEARNING

	 USE A PROFESSIONAL MIC	 PLACE CAMERA AT EYE LEVEL
	 USE PROFESSIONAL PTZ CAMERA	 USE PRESETS FOR WHITEBOARDS
	 USE INTERNAL PC MIC	 MOVE YOUR CAMERA
	 USE INTERNAL PC CAMERA	 MAKE YOUR AUDIENCE SQUINT

THE RULE OF 3

AT-HOME LEARNING



1 SET UP A DESIGNATED WORK SPACE

- Stay "face-to-face" while social distancing: videoconferencing makes all the difference, so take advantage of that built-in web cam on your laptop!
- Be aware of your surroundings: take note of light sources in the room when videoconferencing. The video is only as good as what others are able to see!
- Mute is your best pal: when not actively speaking, reduce the noise volume by utilizing your mute button
- Resolution of your camera determines the image your congregation sees



2 STICK TO A SCHEDULE

- Simplify, simplify, simplify: increase your mobility without all the cables and connectors in tow by using a dock
- Find your zen: create a designated space to focus – whether that is a home office or your kitchen table
- Stick to a schedule: Its difficult to separate physical distance between work and home. Designate your online working hours to specific times and stick to it!



3 STAY ACTIVE

- Meet and greet: get comfortable with virtual meeting applications, like Zoom, to utilize even once back in the office
- Stay up to date: upgrade your technology regularly to use the latest and greatest when it comes to accessories and software
- Be prepared: log into your meetings early to check that your video, audio and screensharing abilities are working properly

LEARNING FROM HOME

A STUDENT'S WORKSPACE

Distance learning isn't anything new. For years, people have enjoyed the benefits of remotely attending higher education classes held onsite at a campus located hundreds or even thousands of miles away. Now, amid today's threat of the coronavirus, K-12 districts are joining the remote learning ranks, quickly needing to create an at-home learning environment. This presents an even newer challenge: parents are also working or learning at home; everyone in the house needs a space to work and learn.

Although this is a temporary setup, a separate learning space will keep the student focused and create a better learning environment. Not only does the student need the space, we as professionals may also be continuing our education to pass the time and take this situation as an opportunity to pick up some **classes.**

Remote learning has become the new normal, we want to all make the switch as easily and smooth as possible, but we all may not know what we need to create the best space. With so many people in the same location having to connect digitally, it may get hectic. We want to help, Legrand | AV has multiple solutions that can help optimize the learning space.

OPTIMIZE YOUR SETUP



THE GREAT DEBATE

WEBCAM VS PROFESSIONAL PAN/TILT/ZOOM (PTZ) CAMERA

Why shouldn't educators use the built-in, free camera on their laptop for engaging K-12 students?

The temptation is very real...those low cost or even free webcams are out there. So why spend the extra dollars on a camera upgrade? Keeping students engaged is key to their success and a quality video camera will provide a realistic, face-to-face interaction for both teacher and student, ensuring a successful experience no matter if they are in the classroom or at home.



ONE PRESETS - CHANGE THE VIEW WITHOUT FUMBLING WITH THE TECHNOLOGY

Sitting behind a static webcam is sure to bore your students and make learning less fun. Make your lessons more interesting with different views of the classroom. Freely move around the room to engage students while using simple preset controls to keep you in the picture. Switch between a view of the podium and the whiteboard during lectures or to a view of students in the room for engagement with off-site students for a seminar-style class.

TWO HIGH QUALITY IMAGE - CREATE A MORE LIFE-LIKE EXPERIENCE TO VIEWERS

Professional cameras capture more detail than a webcam to provide a more life-like image to viewers. With high contrast image sensors, text and other important details will be much more visible. Windows are key to a classroom's design, but bright light will overpower a webcam making your picture appear washed out.

PTZ cameras are designed with better light-gathering capabilities to manage poor lighting conditions and provide a clearer image.

THREE ZOOM - CAPTURE THE DETAILS THAT MATTER MOST

It's no longer just about the student in the back of the room. There's now the overflow room and students at home. Don't let anyone miss out on the details that matter most. Give everyone a front row seat when you zoom in to text on a white board, get a close up of your science lab experiment or when examining artwork or other documents. Most webcams feature digital zoom and use electronic cropping to get closer to the subject, resulting in fuzzy images. Professional cameras use an optical zoom to get you closer without distortion

FOUR INSTALL FLEXIBILITY - FREEDOM TO PLACE THE CAMERA ANYWHERE IN THE ROOM

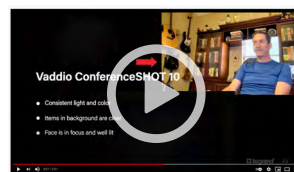
Place the camera anywhere in the room with a single network cable providing power and connection. Set up a tripod or cart for easy movement of the camera between rooms or a home office. Install in the ceiling or wall to meet ADA compliance or for a permanent and clutter-free solution. Freedom to place the camera anywhere in the room allows educators the flexibility to design their classroom how they choose.

FIVE PROFESSIONAL AUDIO - GET FULL COVERAGE WHEN YOU NEED TO MOVE AROUND YOUR SPACE

Pair your professional camera with professional audio components for the ultimate virtual classroom experience. Most laptops have built-in microphones that can provide okay audio pickup at close range, but what happens when you move around the classroom? Professional microphones offer features such as 360-degree coverage and echo cancellation for crystal-clear audio free from annoying feedback issues common with inexpensive audio devices. A professional speaker system provides better audio throughout the classroom so remote participants can be heard by students in the room. Consider ceiling microphones for a touch-free experience and clean room design.

SIX SYSTEM CONTROL - PROFESSIONAL SYSTEMS CAN BE CONTROLLED BY TOUCH PANELS

No need to disrupt learning to adjust your camera or audio, simply pair a touch screen device designed for easy control of your system. For example, pair a Vaddio PTZ camera with the Vaddio Device Controller for selecting presets and fine-tuning volume without interrupting content being shared from your PC screen. Custom preset names allow you to tailor-make areas like Whiteboard, science desk, reading corner without needing to remember "what was preset 1 again?!"



Discover how a professional camera can make a difference

TOP CAMERA PICKS FOR K-12

EXPLORE THESE TOP PICKS DESIGNED FOR K-12 ENVIRONMENTS

DID YOU KNOW?

Vaddio PTZ cameras are designed, manufactured and assembled in Minnesota, making them TAA and BAA compliant.

A QUICKSTART GUIDE



FOR LECTURE CAPTURE TECHNOLOGY

The pace of class slows as the instructor scrawls out definitions and key phrases across the board so students can copy it down before advancing onto the next topic. Students are half in, half out -- meaning, they're listening to the instructor about half the time but dedicating the rest of their attention to jotting down notes in a legible manner.

The result? Students miss out on important aspects of the lecture or don't retain quite as much as they'd like, while professors continue to slow the pace down to accommodate the students. By the end of the semester, students and instructors, both, are cramming for exams.

Recurring situations like this have added to the appeal and necessity of having a reliable lecture capture solution in place on the modern college campus. What's more, students and instructors have come to expect technology like this in the classroom. A University of Wisconsin-Madison study found that 83 percent of students said that they prefer classes that offer online lectures over classes that don't. With that in mind, this quickstart guide is designed to give you a crash course on the need-to-know information related to lecture capture.

WHAT IS LECTURE CAPTURE?

Lecture capture is the means for recording the audio, video and presentation material of a keynote, lecture or an address with the intention of making it available via livestreaming or on-demand for later consumption.

Today, what's common at many colleges is an instructor prerecording lectures for students, making them available on a learning management solution (LMS) -- like Blackboard, Canvas or Moodle -- and then assigning students to view it ahead of time, so the in-person class session can be dedicated to discussion and group work.

Or, instructors will record a lesson during normal class hours in person. Students will show up to class normally. The class is held as it would be in a traditional setting. But a lecture capture system is running in the background to ensure the class session can be made available to those students who missed that day or, in the case of livestreaming, those students who are watching remotely.

HOW TO MAKE LECTURE CAPTURE WORK

Making lecture capture happen is split between a few main courses of action - technologically speaking. There is the hardware route and the software route, and then there is a blended route. While there are many considerations to take into account when deciding which route is best for your university, it's important to know that to make lecture capture happen, you'll need to be able to record high-quality audio and video, make it available to students via livestreaming and on-demand, and store that data in a reliable way.

Taking the hardware route will require cameras, switchers, microphones, smart boards and displays, and more. The software route takes some of this away, but instructors must have a means for recording, whether that be their computers or a portable setup that's easy to use and travel with.

What seems to be most common is a blend of the two, using a hardware-based system in some situations, while also allowing for software-based capture as needed. Both ways demand storing the data so students can easily access it on-demand.



LECTURE CAPTURE BASICS

LECTURE CAPTURE UPGRADED

CONNECTIVITY

EVERYTHING

YOU NEED TO KNOW ABOUT PROJECTION SCREENS FOR SCHOOLS

Finding the right projection screen solution for K-12 and higher education spaces can be daunting with so many options. We thought putting all our favorite picks and resources on one page would be helpful. Going too fast? Still not sure how to even begin selecting a screen given a room's size, lighting, and other challenges? Visit our **Screen and Surface Selection Tools** page for resources galore.

Still here? Good. There's a lot to get through, so we're just going to dive into K-12 first.



Da-Lite's favorite electric screen solution for K-12 is the **Contour® Electrol®**. Down when you need it, tucked away when you don't. The Contour Electrol is ridiculously easy to mount to the ceiling or wall and comes in a variety of finishes.

Want an electric motorized screen option without having to re-route power or altering a historical building? We have a battery motor option for the **Tensioned Designer Contour Electrol**. The standard battery motor is available for sizes up to 110" diagonal in 16:9 format or 113" in 16:10 format. The battery lasts over 200 cycles and charges via micro USB port and comes with wireless remote. With no wiring to deal with, this solution can be rolled out across sites quickly.

Our third solution for the K-12 crowd is our **IDEA™ Screen**, a surface that can be used as a touch screen for interactive projectors as well as a whiteboard with dry-erase markers. Hot-spot free under projection and rigid enough to ensure a superior interactive experience, IDEA screens are also magnetic.

For a cost-effective solution, look to the **Model C with CSR**, a manual wall- or ceiling-mounted screen for larger rooms with a controlled screen return that ensures a quiet, controlled return to the case. For more K-12 ideas, including whole room diagrams using solutions from across Legrand | AV, check out our **AV Solutions for K-12 Learning Spaces guide**.

DA-LITE.

TOP HIGHER EDUCATION SOLUTIONS

Campuses are already discovering new projection needs with the switch to distance learning or hybrid learning. Help keep students in the back of the room on the same page with solutions big enough to see all the details.

For higher ed, we strongly recommend tensioned electric screens to provide perfectly flat surfaces for a superior high-resolution experience. They can also tuck away when not in use. A tensioned screen will keep the projection surface under constant vertical and horizontal tensioning. The new TruGuide™ Electric Screen Tensioning System keeps the surface flat and prevents waves, edge-curling and ripples that can degrade image quality. Learn more about **maximizing image quality here**.

The Tensioned Advantage® ceiling recessed electric screen series comes with ceiling trim in place. The two-stage installation allows the screen case to be installed during the rough-in construction stage, followed by the screen surface during the finishing stage.

The Tensioned Contour Electrol offers simple installation and a variety of finishes to make it a seamless addition to any room.

Choosing the product is only part of the equation. We need to talk about high resolution screen surfaces. Make sure you get the most out of your projector with high-resolution surfaces that feature a smooth surface free of microscopic peaks and valleys. This ensures every pixel of 4K, 8K and even 16K resolution (yeah, we're ready for that!) remain completely intact and visible to the viewer.

As we forge ahead towards an era of 8K and 16K resolution, there is a way to ensure you will remain satisfied with image quality for years to come. When choosing the latest and greatest high-resolution projector, the best way to guarantee return on investment is pairing it with a projection surface designed to enhance the image as much as the projector.

Learn more about lost pixels **here**.

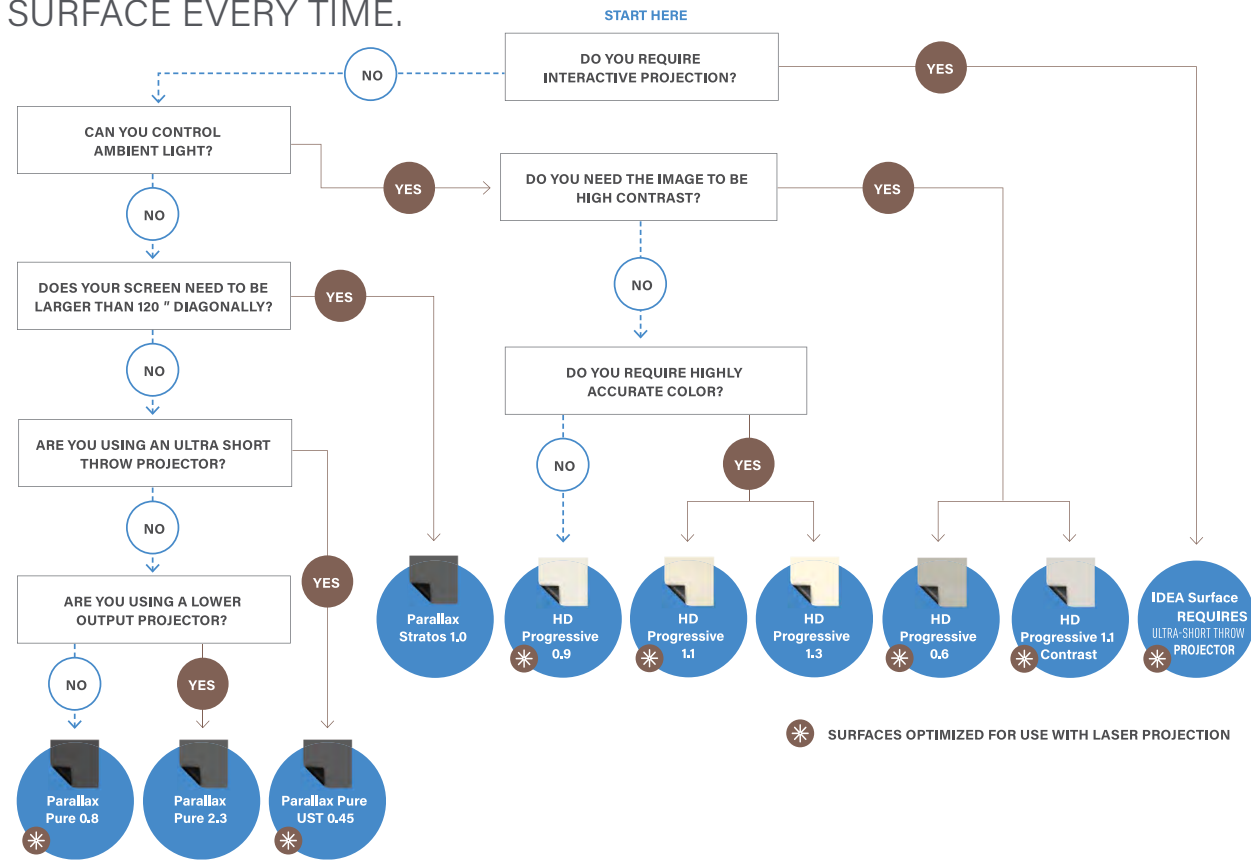
Da-Lite high-resolution surfaces, like HD Progressive ensure an even distribution of projected light for ideal image uniformity. The projected light will look evenly bright on any area of the projection screen to create a well-illuminated and detailed image for the audience. We also test and color measure each surface to preserve the true color of the projector.

SEE OUR HD PROGRESSIVE SCREEN SURFACES HERE:

TOP K-12 PROJECTION SCREENS



GET THE RIGHT SCREEN SURFACE EVERY TIME.



* SURFACES OPTIMIZED FOR USE WITH LASER PROJECTION

Take this quick **quiz** to discover the perfect pairing to maximize the viewing experience.

- Legrand | AV Screen Calculator
- Screen Surface Technology Chart
- Screen Selection Guide
- Maximizing Multipurpose Spaces

LOOKING TO MANAGE THE SCREENS REMOTELY ON A WIRED NETWORK?

Da-Lite's new RS-232 Interface is an adapter for low voltage controls used on Da-Lite motorized screens and projector lifts. This **RS-232 Interface** allows wired remote control of a screen or lift. The Ethernet Adapter for the RS-232 allows the freedom of wired remote control through a TCP/IP connection. The Ethernet Adapter supports the suite of RS-232 commands developed under the RS-232 Interface and allows those commands to be issued by an Ethernet enabled computer or third-party controller.

Worried about product longevity? We've got your back with our 5-Year Warranty. Read more [here](#).

Like K-12, higher ed campuses can benefit from an **IDEA Screen**, or consider the **IDEA Panoramic** for larger rooms with multiple projectors or need for writeable space. Its thin frame ensures minimum interference and maximum surface area for interactivity with ultra short throw projectors. What are some other good options?

WHAT ARE SOME OTHER GOOD OPTIONS?

Campuses can preserve the architectural aesthetics of impressive spaces with **Wireline™ Advantage®**. It uses thin steel cables up to 29 feet instead of black drop to lower the screen to an appropriate viewing height for an aesthetically pleasing presentation.

For always ready projection, the **Cinema Contour®** fixed frame screen features a wider, more substantial frame as well as the latest projection surface for 4K and Ultra HD. The black frame enhances contrast.



You don't have to take our word for it. Take a look at these case studies for real-world applications of Da-Lite.

Find more fall-ready solutions for your campus [here](#). Or take the **AV Campus Tour** to see what's trending from all our brands at Legrand | AV.

One last note about your options with Da-Lite. Many places of learning are converting underutilized building spaces to accommodate large groups while remaining socially distant. Large projection screens allow visual content to be viewed from anywhere in the room while ensuring a great AV experience for all. Check it out.



INTELLIGENT POWER

FOR THE SMART CLASSROOM

More and more educational technologies are living on the network, especially now that remote learning has moved classrooms online. Not only are the classes themselves hosted on video platforms, but more educational materials are also being stored in the cloud. So it follows that there has been a network migration of many of the AV technologies that enable capture, delivery and collaborative sharing of learning content.

As many of these devices are connected on the network, they are often integrated together within an AV over IP framework to maximize flexibility and remote management of the tools that enhance the learning experience. The ability to control and monitor the status of equipment from a central location has been a key benefit to ed-tech managers and IT personnel in K-12 and higher-education.

One essential area that evolved to take greater advantage of network capabilities is energy management and power distribution. On a device level, many pieces of AV technology operate with Power over Ethernet (PoE), and expanding outward across the network of connected devices, there are numerous safety and economic reasons to add intelligent power to educational AV systems.

NEED A FLEXIBLE INSTALLATION?

Power over Ethernet (PoE) allows for flexible installation, as network-connected devices can operate without being plugged into standard outlets. Vaddio has several PoE products in its roster, including its EasyIP systems, professional cameras like **ConferenceSHOT AV**, **HuddleSHOT**, **RoboSHOT**, and **RoboFLIP**, **AV Bridges** and more.

Another Legrand | AV brand, **Luxul**, also adds benefits via PoE. Pairing PoE devices with Luxul Managed Switches allows for use of their “self-healing” features. The switch pings the PoE device at defined intervals, and if the device becomes unresponsive, the switch can remotely restart it.

This also means that you can schedule your touch screens, cameras or any PoE connected devices to reboot regularly. We all know the IT mantra “Did you try powering it off and on?” The same principle applies with AV devices — reboots are good practice, and even better if you can reboot remotely at a time when no one is in the classroom.

Middle Atlantic’s RackLink Premium+ Application provides secure 24/7 access to devices via mobile devices and desktops for a top notch customer experience.



ENERGY MANAGEMENT

REMOTE POWER CONTROL

REACT TO POWER ISSUES BEFORE IT'S TOO LATE

The next-generation power distribution with RackLink™ technology gives teachers and IT support staff the ability to monitor and react to power issues (i.e. frozen devices). Monitor for future problems with voltage, temperature, current monitoring etc., with notifications via email, third party control systems, cloud, SNMP, etc.

RackLink enables ed-tech managers, IT personnel and AV technicians to remotely troubleshoot issues and be proactive without having to travel around campus to reboot devices. Also, with Premium+ you get enterprise-level network security, which is becoming more and more vital on campuses.

RackLink also features AutoPing, which proactively monitors the network status of connected devices, knows when they are no longer responding, resets them automatically, and prevents teachers from calling the help desk.

QUICK TIP

Use power distribution to help with energy management for computer labs! Gather the analytics on how much energy the lab is costing to analyze if the computers should be shut down at night or at certain times during the day that are less busy.



PROWATCH

Expectations are supremely high for seamless operation of networked devices. 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.

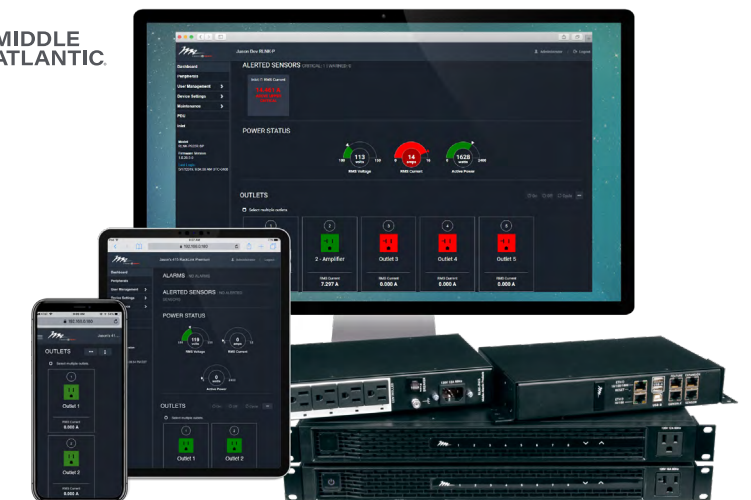
ProWatch allows AV managers at universities and K-12 schools a free way to manage hundreds of IP devices without needing to purchase service contracts.

This is a great benefit when you have networks of devices spread across entire campuses, because tech managers can get in and do remote management of anything on those networks:

- Receive notifications when devices fall offline
- Perform firmware updates on select Luxul routers and access points
- Customizable alerts
- Site-level status indicators for offline devices and firmware updates
- Access sites in map or list views
- Configure devices remotely via web user interfaces
- Remotely cycle power distribution units (PDU) and PoE switches

Additionally, Luxul switches are ideal to create networked solutions partitioned from the main IT infrastructure, so you get a somewhat closed off system that leaves the main network less susceptible from a security standpoint. Further, Luxul's switches have brand-new additional security hardware installed to add an extra layer of protection.

MIDDLE ATLANTIC



ADAPTING K-12



CLASSROOMS FOR FLEXIBLE LEARNING

The K-12 classroom experience is expanding. Launched by necessity, the ever-present cameras and streaming solutions of remote learning continue to present challenges. Now, after a year spent adjusting to a blended virtual and in-person educational experience, it's time to work out the technical kinks and discover a more connected classroom. Particularly because hybrid learning technologies will continue to provide valuable flexibility, especially as many students will be participating in additional coursework after school and through the summer to catch up to their grade level after a difficult year.

We can create a more direct connection between educators' creativity and passion with more flexible AV media tools for sharing and collaborating. The classroom innovations we saw when many teachers only had a single camera to work with across in-person and remote learning have been inspiring.

Astounding ingenuity and a great deal of commitment led to new discoveries of how audiovisual tools, cables and infrastructure can open new doors. Indoor and outdoor spaces were re-purposed to allow for social distancing. Cafeterias became auditoriums. Gymnasiums added livestreaming capabilities for sports.

Now that those systems are in place, it's time to think about what's next for those technological solutions. Now it's possible to bring in more guest speakers via video, collaborate on art projects with remote participants, and use pan-tilt-zoom cameras and ceiling microphones to create a genuine feeling of connection.

Once the ideas start formulating, it really can be an invigorating process.

Especially since educators already have a great knack for making the four walls of their own room into a unique and special place. Often though, the questions of which pieces of technology, and how to connect them, can seem like an overwhelming challenge. Especially at a time when so much is already in flux.

That's why Legrand | AV has a Solutions Engineering team — to answer questions directly. You're connected to a real human when you click on the "Contact Us" button on any of the Solutions Diagrams, and that human is ready to explore ideas with you.

Brian Retzlaff is the Solutions Engineer who will receive your email, and in addition to being an AV systems designer, he's also had experience teaching, so you can trust he'll ask the right questions and provide answers that match your needs.

To help with the technical overwhelm that can happen in these situations, Brian can help make the needs analysis more productive and human-centric. When it seems like the first question should be, which camera do I need? How big a screen should I get? How many microphones do I need to make sure the whole class can hear and be heard? There's actually a better way to discover what you need, by starting with how you actually use your classroom and what you want to recreate with AV technology.

"Let's step back and figure out the real thing you're trying to do, and then we might come up with some really creative ways to solve that," Brian says.

Starting with the basics like the size of the room, the number of students who will be using it and a quick assessment of existing pieces of AV equipment, Brian can help reconfigure or augment a setup so everything is used to its fullest capabilities. Whether it's helping to integrate existing infrastructure into a new remote classroom setup, or finding ways to make all those technologies portable and sharable among numerous instructors, the Solutions Engineering process can help make things easier.

Now, with more stimulus funding becoming available and with ed-tech expanding the classroom experience in countless new ways, we can start building the classroom of the future today.



"Let's step back and figure out the real thing you're trying to do, and then we might come up with some really creative ways to solve that."

Brian Retzlaff
Solutions Engineer of Legrand | AV





BACK ON TRACK WITH K-12

PORTABLE VIDEOCONFERENCING

Looking for a way to help remote students feel closer to what's happening in the classroom? But maybe the budget isn't there for adding a camera to each and every room in the school. Consider adding a portable option to the mix. By putting a complete videoconferencing setup on a durable cart that is purpose-built to hold each piece of equipment securely, you create a shareable technology resource that boosts immersion in synchronous learning and makes it easy to create recordings for asynchronous material.

Built with safety in mind, this equipment cart has lockable wheels that prevent movement and possible injury from a rolling cart. Cable management has also been provided, so that wires and connectors can be secured and tucked away.

With a PTZ camera and microphone connected to a display (make sure it has speakers built in, so you can have sound output) via a docking station, you can roll in the big-screen version of a video call. See

all your students up on the screen, and easily move the display to the back of the classroom so those students can all see a view of their classmates and the material on the whiteboard at the front of the room. The PTZ camera allows you to look directly at remote students while you face in-person students, and you can use a remote to recall saved presets or zoom in where needed to make sure everyone can see what's happening. A power strip or network power solutions work alongside your connected laptop, which can be used for conferencing with remote students and sharing content.

This is a convenient and easily repeatable setup that can be used for distance learning, lecture capture and videoconferencing wherever it's needed. With a few of these portable videoconference carts in rotation, resources can be shared to create more connection options for everyone.



WHY WE LOVE IT

- Easily portable to share with other rooms and staff
- Quick alternative to a less permanent install
- A repeatable setup to utilize in multiple locations
- Asynchronous or Synchronous **learning solutions**
- For distance learning, lecture capture, streaming and videoconferencing

KICK IT UP A NOTCH

DYNAMIC HEIGHT ADJUST

WHY: Allow for people of all abilities to have easy access to the screen.

INVEST IN MORE AUDIO

WHY: Cover a larger room with an extra microphone.

CONSIDER MORE STORAGE

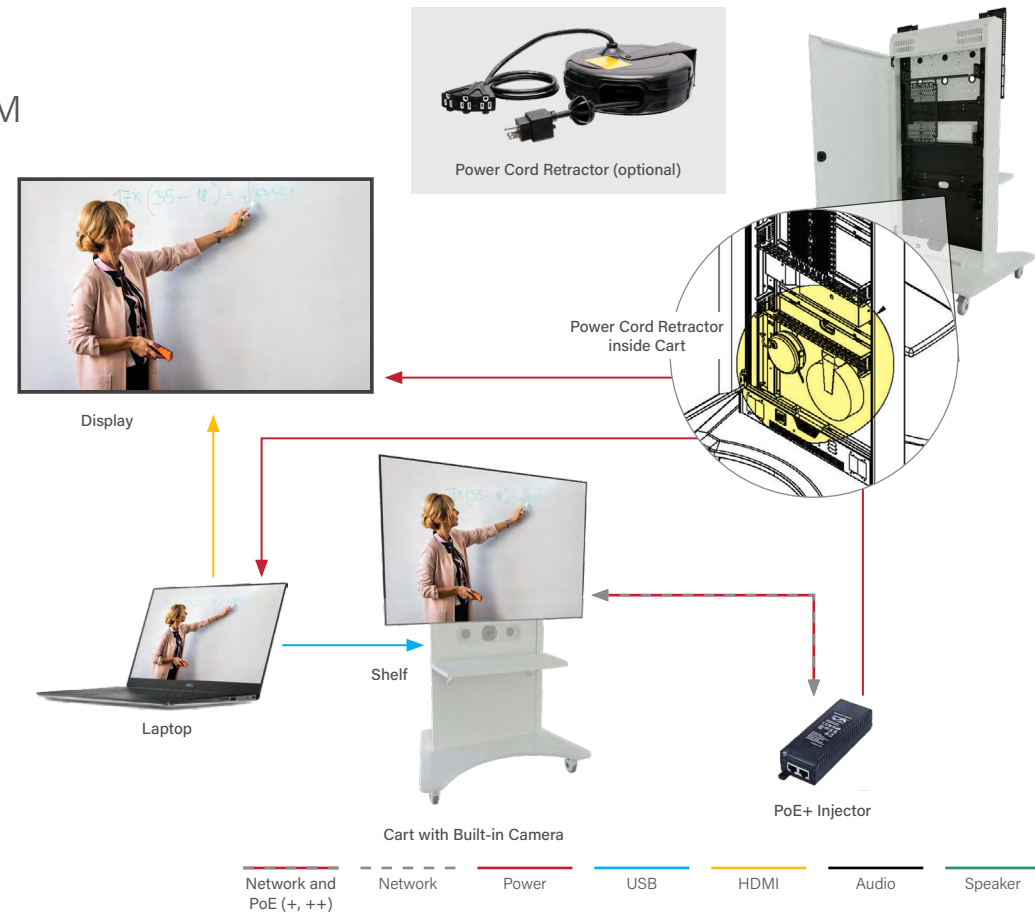
WHY: Store all those little parts & pieces behind the monitor.

PART NUMBERS

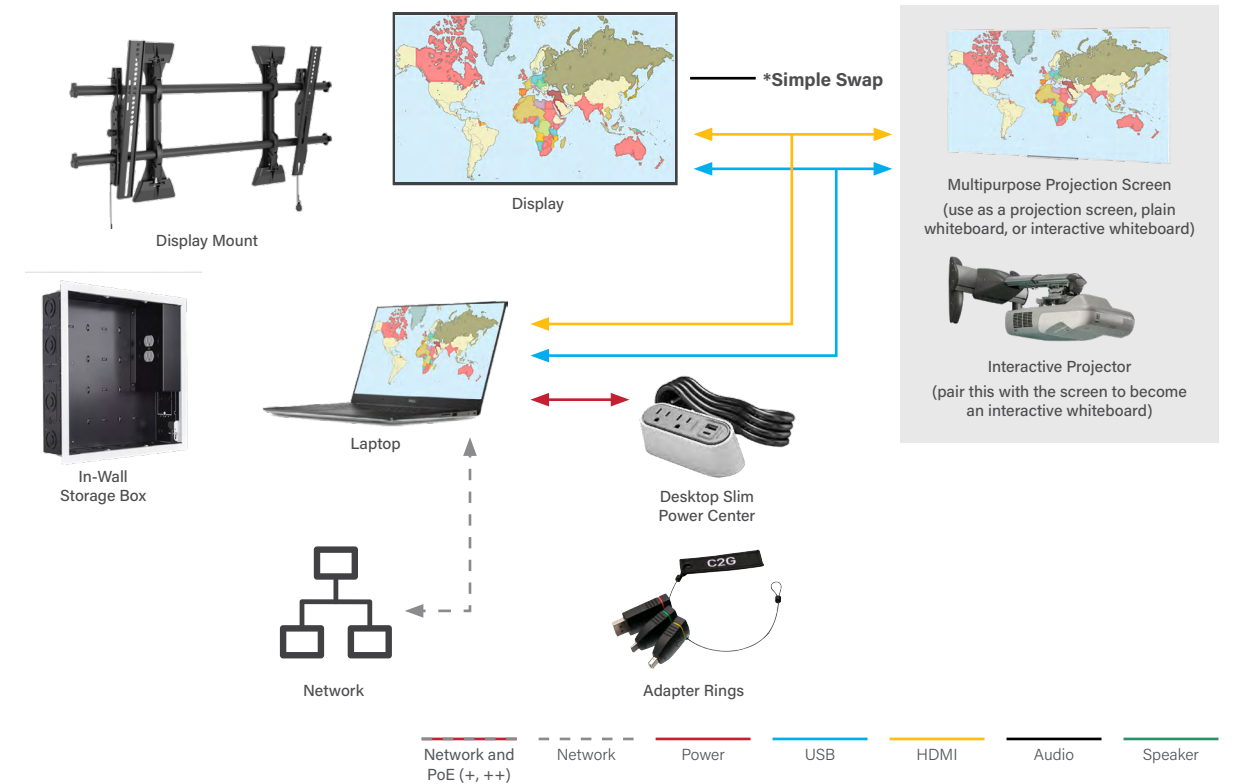
- Vaddio ConferenceSHOT AV Bundle - TableMIC 1 **999-99950-501W** (White)
- Chief Mobile AV Cart **LPAUB**
- Chief Accessory Shelf **FCA613B**
- Chief CPU Holder **FCA650B**
- Chief Shelf **FCA810**
- Middle Atlantic Slim Power Strip, 8 Outlet **PD-815SC-20**
- C2G 10' CAT6 Snagless Cable (qty 4) **00817**
- C2G 10' HDMI 4K Cable **56784**
- C2G 10' USB 3.0 Cable **54175**
- C2G Docking Station **54439**
- C2G 4K HDMI Adapter Ring **29878**

This solution can help support: social distancing, hybrid classrooms, summer & after school programs & extended day/year learning.

FLEXIBLE CLASSROOM



INTERACTIVE CLASSROOM



WHY WE LOVE IT

- Just add a display (or interactive display) and a laptop—and teach anywhere
- Optional shelf and cable retractors allow customization and convenience
- All-in-one design makes deployment quick and easy for multiple classrooms or sharing the technology
- Roll it off the crate and into a classroom in minutes
- Video and audio are built into the cart, allowing for worry-free tampering of interrupting the setup

KICK IT UP A NOTCH

ADD A POWER CORD RETRACTOR

WHY: Added flexibility—move the cart up to 15 feet from the outlet.

ADD CABLE RETRACTOR FOR NETWORK

WHY: Keep those high bandwidth connections high quality— and move up to 20 feet away from the ethernet jack.

ADD A DOCKING STATION

WHY: Makes it easy to use your own device for collaboration.

ADD A VADDIO TABLEMIC

WHY: Extend the pickup range so everyone can be heard.

This solution can help support social distancing, hybrid classrooms, summer & after school programs & extended day/year learning.

PART NUMBERS

Middle Atlantic FlexView Conferencing Cart with HuddleSHOT FC **FVS-HSFC-800SC-WH**

Middle Atlantic Power Strip (not shown) **PD-815SC-20**

Middle Atlantic Shelf **FVS-HS-FRTSHLF-WH**

C2G 12' HDMI Cable **50185**

OPTIONS

Middle Atlantic Power Cord Retractor Kit

FVS-800-RET15F

Middle Atlantic Cat6 Cord Retractor **FVS-800-CAT6-20F**

Middle Atlantic RackLINK Power **RLNK-P415**

Luxul 4 Port PoE+ Network Switch **SW-100-04P**

C2G USB-C Docking Station **C2G54457**

C2G 6' USB Thunderbolt Cable **28842**

C2G 6' Cat6 Cable (Qty 3) **03967**

C2G 12' Cat6 Cable **03970**

WHY WE LOVE IT

- A repeatable setup to utilize in multiple locations
- Interactivity creates a better experience for student engagement
- Most classrooms have the ability to upgrade to an interactive solution
- The flexibility to choose an interactive display or an interactive whiteboard based on school preference

KICK IT UP A NOTCH

IN-CEILING STORAGE

WHY: Hide small equipment behind displays for a sneaky way to maximize space.

HEIGHT ADJUSTABLE MOUNT

WHY: Easily adjust the height to make the technology more accessible.

KEEP CONNECTIVITY SIMPLE

WHY: Use a docking station to connect devices to a laptop with just one cable.

This solution can help support social distancing, hybrid classrooms, summer & after school programs & extended day/year learning.

PART NUMBERS

Chief Display Mount **LTM1U**

Chief In-Wall Storage Box (only if using a display) **PAC526FWP2**

*Da-Lite IDEA Screen **28273**

C2G 10' CAT6 Snagless Cable (qty 2) **00817**

C2G 50' CAT6 Plenum Cable (qty 3) **15274**

C2G 50' HDMI Plenum Active Optical Cable **41415**

C2G Docking Station **54439**

C2G 4K HDMI Adapter Ring **29878**

Vaddio 20m (65.6') USB 3.0 Cable **440-1005-023**

Wiremold Desktop Power Center Slim

WSPC220CWH

*Simple Swap Options



BACK ON TRACK WITH K-12

SMALL CLASSROOM SOLUTION

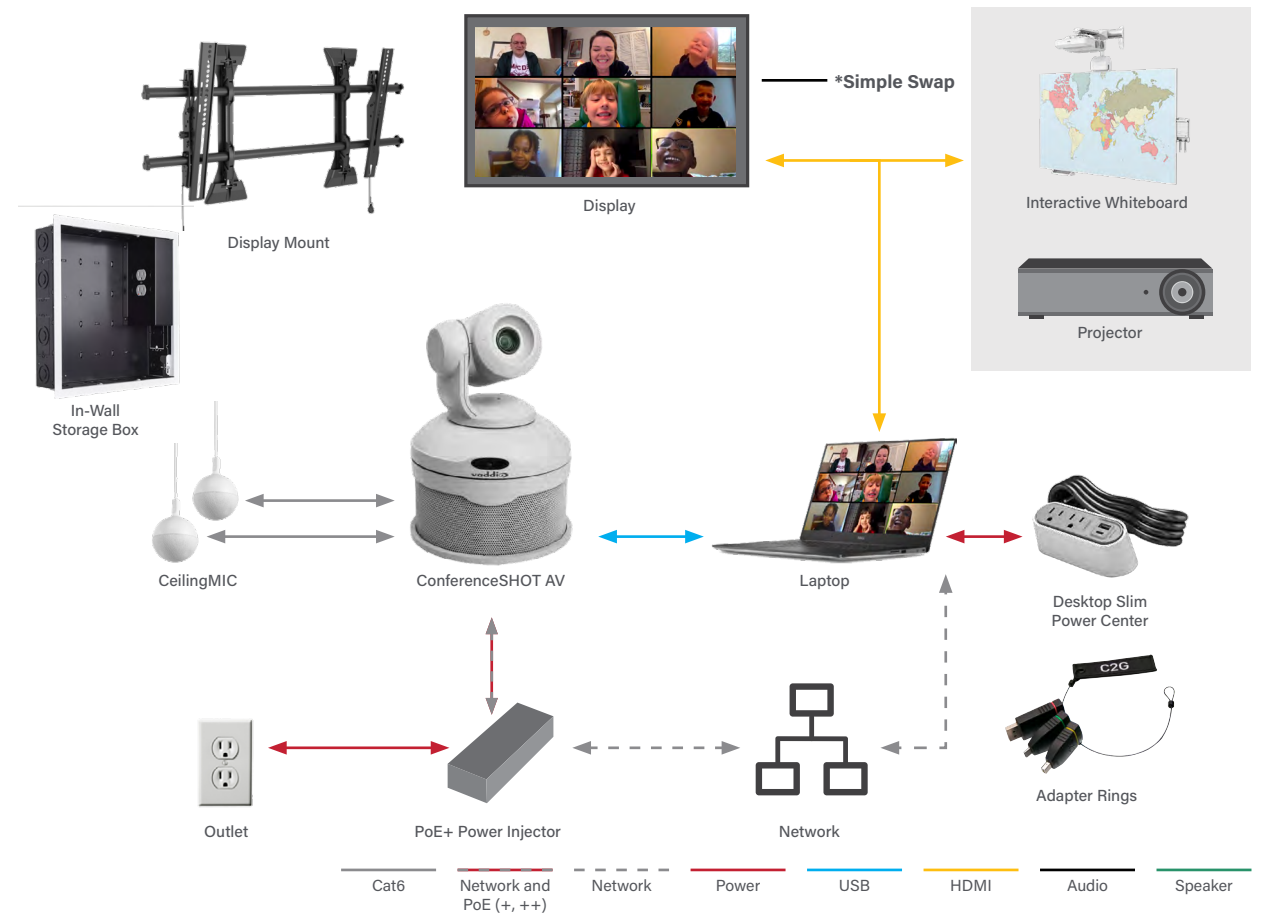
Classroom AV is all about efficiency and flexibility. Each tool provides many functions, maximizing space and investment. Now those workhorse projectors, displays and interactive whiteboards are getting an added boost of video connectivity to support hybrid learning.

As students and educators continue to connect via the synchronous and asynchronous modalities that suit their needs, hybrid and hyflex learning will continue to offer flexibility for a mix of in-person and remote classroom experiences. To be future-ready and ensure that students are seen and heard from near and far, add a PTZ camera with speakers and ceiling microphones to the core interactive classroom setup of wall-mounted displays and projection screens.

This hybrid learning solution is designed to maximize the use of small spaces with flexible tools that

support remote learning, lecture capture, streaming and videoconferencing. Use this easily repeatable setup to efficiently update multiple classrooms, or add the gear to a small office or meeting space to make it a teaching studio and communications hub.

Consider a few infrastructure updates to boost efficiency further. A projection screen can be a useful tool in a socially distanced classroom, providing a large-scale means of showing content that can be read from further away. Further, an upgrade to a new projection screen made with the latest advanced materials can produce a brighter image, even with lots of natural light in the room. That will be even more important when sharing on-screen content remotely via the camera. And don't forget the behind-the-scenes players that can help store and secure equipment on the surface or inside walls and add power and connectivity where it's needed most.



WHY WE LOVE IT

- A repeatable setup to utilize in multiple locations
- Maximize the use of small spaces
- Use this same system to convert small offices and meeting spaces
- Hybrid learning solution
- For distance learning, lecture capture, streaming and videoconferencing

KICK IT UP A NOTCH

IN-CEILING STORAGE

WHY: Hide small equipment behind displays for a sneaky way to maximize space.

UPGRADE THAT SCREEN

WHY: Screen technology has come a long way including new ways to combat natural light.

PART NUMBERS

Vaddio ConferenceSHOT AV Bundle - CeilingMIC 2 **999-99950-200W** (White)

Chief Display Mount **LTM1U**

Chief In-Wall Storage Box (only if using a display) **PAC526FWP2**

*Da-Lite Integrated Interactive System - Chief Mount + IDEA Screen **AN3WA100**

C2G 10' CAT6 Snagless Cable (qty 2) **00817**

C2G 50' CAT6 Plenum Cable (qty 3) **15274**

C2G 50' HDMI Plenum Active Optical Cable **41415**

C2G Docking Station **54439**

C2G 4K HDMI Adapter Ring **29878**

Vaddio 20m (65.6') USB 3.0 Cable **440-1005-023**

Wiremold Desktop Power Center Slim **WSPC220CWH**

*Simple Swap Options

This solution can help support: social distancing, hybrid classrooms, summer & after school programs & extended day/year learning.



BACK ON TRACK WITH K-12

AUDITORIUM / GYMNASIUM / CAFETORIUM SOLUTION

Built to be multipurpose, large-scale spaces like cafeterias, gymnasiums and auditoriums can support a whole range of programming. Many of these rooms are seeing new use as reopening schools rely on their expansive real estate to comply with social distancing standards. With a few technology upgrades, these rooms can serve all sorts of new functions, now and in the future.

Support a multi-functional space with multi-functional technology. The same AV tools that can create a mega classroom or lecture setup might also be used for show production. Music and theater performances, community meetings and/or athletic activities can all benefit from this multi-camera setup with full production, videoconferencing and streaming capabilities. Large projection screens can be used for image magnification or graphics and video, and all of the production technology can be stored in a portable lectern that rolls out when you need it.

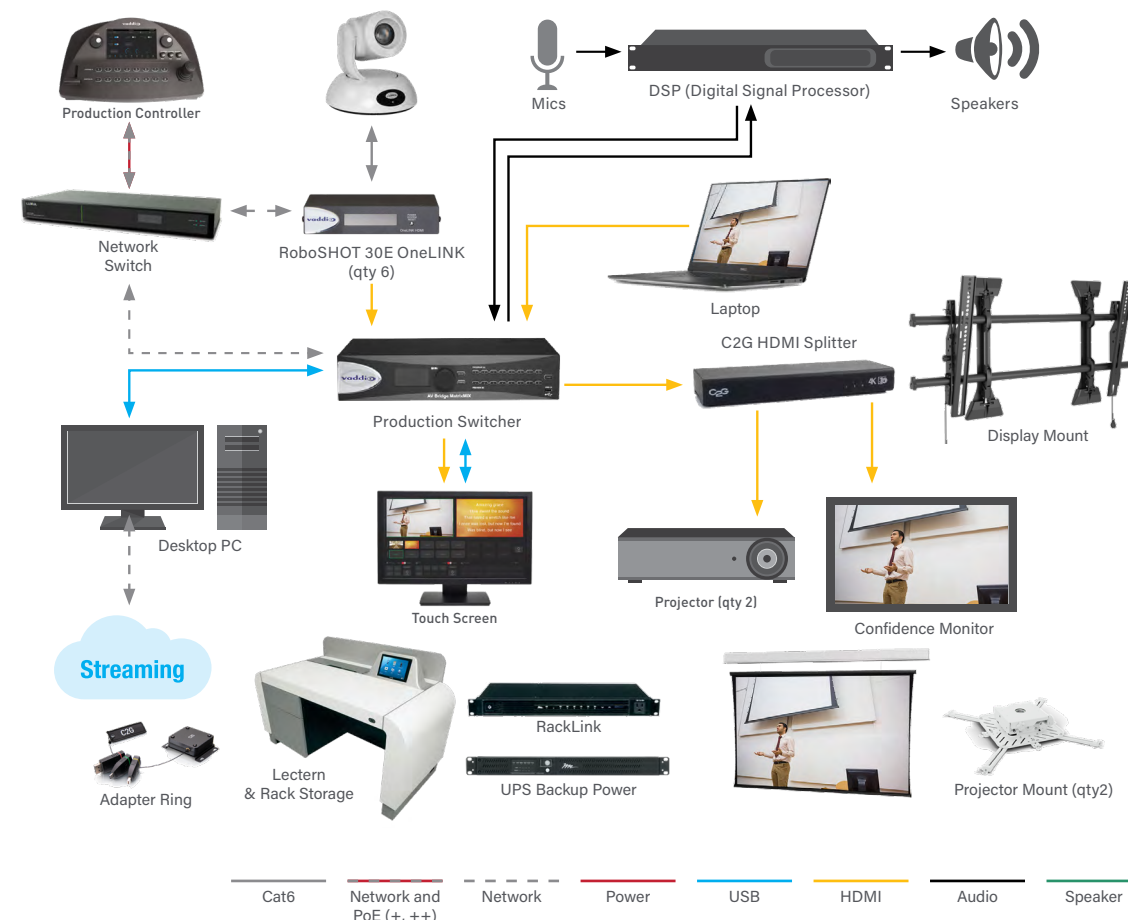
The camera control piece of this setup really takes it to another level. With multiple cameras comes the

ability to capture multiple angles, and you can create presets so the camera always goes to the shot that was pre-calibrated for each purpose. The production switcher also provides other automation features that promote audience engagement, with video overlays and triggers for show moments.

Go one step further, literally, by installing “no-touch” controls, so a presenter can use a step mat and sensor kit to automatically change a camera angle. This frees a speaker to move naturally while the camera effortlessly follows them.

The options for these spaces really are as various as their use, so we encourage you to contact the Legrand | AV Solutions Engineers to help explore the right technologies to fulfill your unique requirements. Maybe your ceiling height is an issue, or your built-in proscenium stage opens on both sides to two different rooms and has to be used in both directions. We can help you figure out a way to make it all work seamlessly together.

So when you’re planning new alternative event programming or audience overflow options, you’ll have the flexibility to make sure that everyone sees what’s happening on stage. Further, now that audiences are used to joining in for special occasions from afar, that option can continue to be offered. Really, this can be a community room that meets many needs.



WHY WE LOVE IT

- Multi-functional solutions combines switching, advanced camera control and graphics mixing
- Multiple cameras provide ability to set presets in several locations
- Creates automation for audience engagement with video overlays and triggers
- For large lecture halls, auditoriums, cafeterias, lecture capture, videoconferencing and livestreaming

KICK IT UP A NOTCH

‘NO-TOUCH’ CAMERA ANGLE CHANGES

WHY: Professors focus on the lecture not the tech with solutions like a step mat and sensor kit that automatically change the camera angle.

PRESENTER TRACKING

WHY: Gives you the ability to move around the room automatically while the camera follows you.

This solution can help support: social distancing, hybrid classrooms, summer & after school programs & extended day/year learning.

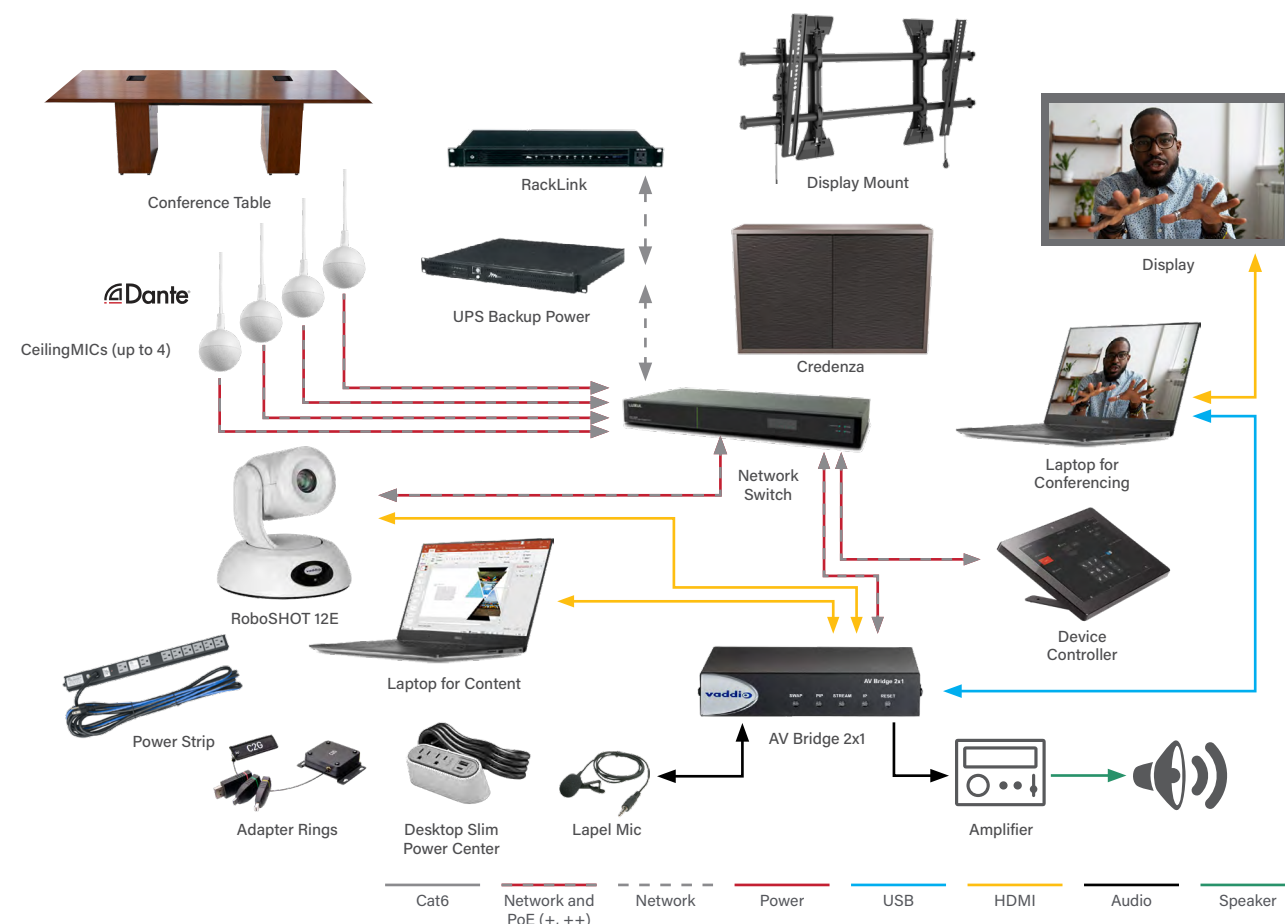
PART NUMBERS

- Vaddio AV Bridge MatrixMIX Production System (Includes PCC MatrixMIX and AV Bridge MatrixMIX) **999-5660-500**
- Vaddio RoboSHOT 30E HDBT OneLINK HDMI System (qty 6) **999-99630-100W**
- Vaddio TeleTouch 27" USB Touch-Screen **999-80000-027**
- Chief Display Mount **LTM1U**
- Chief Projector Mount (qty 2) **VCTUW**
- Chief Vibration Isolating Coupler (qty 2) **CMA348W**
- Da-Lite Wireline Advantage Screen (qty 2) **29875**
- Middle Atlantic Lectern L7 Series **L7-F61A-WD-SLHA7**
- Middle Atlantic Premium+ PDU with RackLink **RLNK-P915R**
- Middle Atlantic Premium Series UPS Backup Power **UPS-1000R**
- Middle Atlantic UPS Network Interface Card **UPS-IPCARD**
- Luxul Network Switch **AMS-2624P**
- C2G HDMI Splitter **41057**
- C2G 100' Cat 6 Plenum Cable (qty 3) **15276**
- C2G 50' Cat6 Plenum Cable (qty 3) **15274**
- C2G 15' Cat6 Cable (qty 8) **22016**
- C2G 35' HDMI Plenum Cable (qty2) **41414**
- C2G 10' HDMI Cable (qty 9) **56784**
- C2G 10' USB 3.0 Cable **54175**
- C2G 100' HDMI Plenum Cable **41369**
- C2G Retractable Table Box Mount **4K HDMI Adapter Ring 29880**



BACK ON TRACK WITH K-12

ADMINISTRATIVE
BOARDROOM /
CONFERENCE
ROOM SOLUTION



WHY WE LOVE IT

- High quality video and audio for videoconferencing with an upscale appearance and functionality
- Program camera presets for different locations within your office (whiteboard or flip chart)
- Create automation for better audience engagement with video overlays and triggers
- For videoconferencing and streaming

KICK IT UP A NOTCH

DOCK WITH EASE

WHY: Connect all desktop peripherals with a single cable, including dual displays, while also charging your laptop.

STORE GEAR LIKE A PRO

WHY: AV Racks protect the longevity of your investment by providing proper thermal and cable management.

'NO-TOUCH' CAMERA ANGLE CHANGES

WHY: Allows users to present from different areas like a whiteboard and provide optimal viewing for participants.

PART NUMBERS

- Vaddio RoboSHOT 12E HDMI **999-99400-000W** (White)
- Vaddio AV Bridge 2x1 **999-8250-000**
- Vaddio EasyIP CeilingMIC D Microphone (qty 4) **999-85810-000**
- Vaddio Device Controller **999-42300-000**
- Chief Display Mount **LTM1U**
- Luxul Network Switch **AMS-1208P**
- Middle Atlantic T5 Series Conference Table **(See Parts List)**
- Middle Atlantic C3 Credenza **(See Parts List)**
- Middle Atlantic Premium+ PDU with RackLink **RLNK-P915R**
- Middle Atlantic Select Series UPS Backup Power **UPS-S1000R**
- Middle Atlantic Slim Power Strip **PD-815SC-20**
- C2G 6' HDMI Cable **56783**
- C2G 10' Cat6 Cable (qty 2) **27153**
- C2G 10' USB 3.0 Cable **54175**
- C2G 50' Cat6 Plenum Cable (qty 3) **15274**
- C2G 50' HDMI Active Cable (qty 2) **10384**
- C2G Docking Station **54439**
- C2G Retractable Universal Mount
- 4K HDMI Adapter Ring **29879**
- Wiremold Desktop Power **WSPC220CWH**

CAMERAS

Teaching a remote K-12 class presents enough challenges without having to make a single camera work for every task, especially if that camera is in a laptop. An upgrade to a conferencing camera with pan-tilt-zoom features can really enhance the connection. And looking ahead to the hybrid and hyflex learning scenarios that will continue to provide flexibility for varying needs in the future, it might be time to consider a multi-camera solution.

Adding additional cameras can help to create a more immersive classroom experience for students who are participating remotely. Use dedicated cameras to capture presenters, classroom conversations and learning materials for more effective comprehension and engagement. Plugging the cameras into an existing AV system or even creating a new solution is made easier with AV bridges, IP connection devices and video mixers, all built for easy use with your conferencing platform of choice.

For larger classrooms, labs and collaborative environments, the addition of more cameras will enable close-ups of equipment, discussion groups and other specific functions of each space. Customize your learning experience with camera presets and the addition of graphics and video effects.

CAMERA SYSTEMS FOR K-12 CLASSROOMS

THE DISTANCE LEARNING STUDIO

The EasyIP Mixer Base Kit is an AV-over-IP classroom system in a box that is ideal for large hybrid classrooms and creating your own distance learning studio with multiple cameras. The EasyIP Mixer combines Dante audio sources and four Vaddio EasyIP cameras to deliver our easiest production system to date. The flexibility to change the use of different conferencing platforms makes this system very easy to use. Base kit includes one EasyIP Mixer, one EasyIP Switch, and one EasyIP 10 Camera. The EasyIP system is compatible with nearly every conferencing platform.



EASY-TO-USE CONFERENCING SYSTEM

ConferenceSHOT AV integrates a 10X zoom PTZ camera and audio conferencing mixer into a single USB 3.0 device, so you can easily connect microphone and external speaker to the camera. This solution provides best in class video combined with audio everyone can clearly hear - both in the classroom and at home. Easy to use and easy to install. Bundle includes one ConferenceSHOT AV camera, one ConferenceSHOT AV Speaker and one CeilingMIC microphone. The ConferenceSHOT AV camera is compatible with nearly every conferencing platform.



MULTI-CAMERA SOLUTIONS FOR K-12

		SYSTEM UPGRADE	MOST POPULAR NEW INSTALL	ADDING CAMERAS TO AUDIO SYSTEM
PRODUCT		AV Bridge 2x1	EasyIP Decoder	EasyIP Mixer
# OF CAMERAS		1-2 Cameras	1-4 Cameras	1-4 Cameras
ZOOM		Pair with any HDMI camera	10x or 20x	10x or 20x
AUDIO		Audio I/O	Pair up to two TableMICs or CeilingMICs	Pair up to four Dante Audio sources and/or use analog audio I/O
BUILT-IN ECHO CANCELLATION		✓	✓	✓
STREAMING	RTSP/RTMP	✓		
	USB 3.0	✓	✓	✓
COOL FACTOR		Integrates with existing AV	Double up decoders to make rooms BYOD and Zoom/Teams rooms	Allow up to 4 cameras and flexible audio through its Dante support into any room
		Simultaneous streaming to cloud platforms and videoconferencing software	Easy installation over Cat5 cabling and PoE+ powered devices	Picture in Picture and On Screen Graphics features for enhanced production value
		Connect two cameras or one camera & PC content for engaging Picture in Picture views	EasyMICs provide exceptional audio coverage and simple installation	HDMI out for confidence monitor or overflow room display
PRICE		\$	\$-\$\$	\$-\$\$\$
PART #		999-8250-000	999-60210-000	999-60320-000

TOP 3 CAMERAS FOR K-12

		SMALL ROOM	MOST POPULAR MEDIUM ROOM	LARGE ROOM
PRODUCT		HuddleSHOT	ConferenceSHOT AV	RoboSHOT 12E HDBT with OneLINK Bridge
ZOOM		3x	10x	12x
AUDIO		Built-in microphone and speaker; ability to add more mics	Add up to two table or ceiling mics or select a bundle with built-ins	A professional audio interface (I/O); replaces need for separate audio system
STREAMING	RTSP/RTMP	✓	✓	
	USB 3.0	✓	✓	✓
COOL FACTOR		Widest angle - sees the entire space	Choose from a variety of bundles perfect for your classroom	Highest image quality
		Controlled over the network (using an iPad or phone)	Save preset views to keep presentations engaging	Ultimate installation flexibility
		An all-in-one system	Convenient hand-held remote control for easy operation	The 'IT' team favorite
PRICE		\$	\$\$	\$\$\$
PART #		999-50707-000	Choose your bundle	999-99600-200

CARTS




Expand your technology options easily and efficiently with a portable cart. Your investment can go farther when it's on wheels, making it a shareable resource among educators and departments.

Flexibility is built right in to these mobile options, which can transform any space into a big-screen viewing area, videoconferencing and livestreaming studio, or any of a wide range of customizable uses to meet your needs. Displays and AV equipment can be mounted securely to these quality-engineered, ADA-compliant carts. Safety and security is enhanced with robust cable management and storage solutions designed to keep your equipment out of harm's way.

The carts are adjustable as well, either manually or with motorized lifts, to get the perfect fit for a classroom, gymnasium, cafeteria, auditorium or any open space that might be repurposed to meet social distancing guidelines.

A cart is a great solution for any impromptu space that can use some added interactivity and engaging content.

TOP AV CARTS FOR K-12

		MOST POPULAR		
		BASIC	STANDARD	PREMIUM
		CHIEF 	CHIEF 	CHIEF 
PRODUCT		Large Flat Panel Mobile Cart	Large Manual Height Adjust Mobile Cart	Large Capacity Electric Height Adjust Flat Panel Cart
WEIGHT CAPACITY		200 lbs. (90kg)	200 lbs. (90kg)	200 lbs. (90kg)
STORAGE		Pair with any HDMI camera	10x or 20x	10x or 20x
HEIGHT ADJUSTABILITY		Audio I/O	Pair up to two TableMICs or CeilingMICs	Pair up to four Dante Audio sources and/or use analog audio I/O
ACCESSORIZE YOUR CART	CPU STORAGE	✓	✓	✓
	DUAL MONITOR ADAPTER	✓		
	PADLOCK	✓	✓	✓
	SHELVES (CAMERA, AV ACCESSORIES)	✓	✓	✓
	SPEAKER ADAPTERS	✓	✓	✓
PRICE		\$	\$\$	\$\$\$
PART #		PFCUB	LPAUB	LPEIU

DISPLAY MOUNTS AND PROJECTOR MOUNTS

INTERACTIVE DRY ERASE SCREEN AND INTERACTIVE PROJECTOR

The Integrated Interactive System (AN3) was designed as an all-in-one screen technology and mount solution paired with the Epson BrightLink and BrightLink Pro. This technology allows teachers and students to share content and interact to transform the presentation from static to engaging.



LEARN MORE

EXTRA-LARGE HEIGHT ADJUSTABLE CART & FLOOR SUPPORT MOUNT

Ideal for interactive applications, mounts with electric height adjustable capability create better accessibility to technology in the classroom. The height adjustable solution provides 26" (660 mm) of vertical lift.

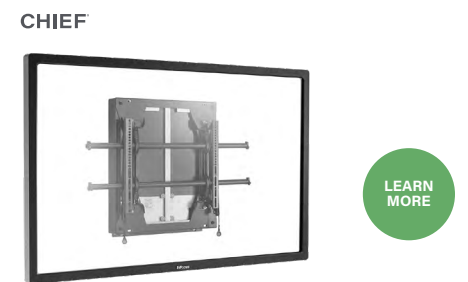


CART
LEARN MORE

FLOOR SUPPORT
LEARN MORE

FUSION DYNAMIC HEIGHT ADJUSTABLE WALL MOUNT

Easily move the Fusion™ up and down with the touch of a fingertip. Provides ultra-smooth and fast vertical travel with almost no effort. Ships fully assembled with the LSM1U mount to make this a complete aesthetic solution.



LEARN MORE

INSTALL DISPLAYS OVER EXISTING CHALKBOARDS OR WHITEBOARDS

The OB1U, Over-the-Whiteboard Interactive Display Mount allows for easy installation and adjustment of displays over existing chalkboards or whiteboards. A no-stress quick fix to upgrading your classroom without having to redesign the entire room.



LEARN MORE

PROJECTION SCREENS



EASY AS 1, 2, 3

Serving up three new ways for you to think about Da-Lite products and screen surfaces – no matter what the need.

LARGE SCREENS FOR SOCIAL DISTANCING STUDENTS

The Model C with CSR is a manual wall- or ceiling-mounted screen for larger rooms that ensures a quiet, controlled return to the case.

DA-LITE



LEARN MORE

DISCOVER OUR DOUBLE-DUTY PROJECTION SCREEN AND WHITEBOARD

The IDEA™ Screen can be used as an interactive projection screen AND as a whiteboard with dry-erase markers. Featuring upgraded durability, surface uniformity and rigidity to ensure a superior interactive experience, all IDEA Screens are also magnetic and easy to clean. Its thin frame ensures minimum interference and maximum surface area for interactivity with ultra-short throw projectors. The erasable surface is hotspot-free under projection. A tray for storing markers, erasers and interactive tools makes it the ideal classroom partner.

DA-LITE



LEARN MORE

DRAMATIC AND CINEMATIC

The Cinema Contour® fixed frame screen features a wider, more substantial frame – plus the latest technology in projection surfaces designed for up to 16K resolution to maximize the technology of your projector. The black frame gives the eye a point of reference and enhances contrast.

DA-LITE



LEARN MORE



WORKSPACE
ACCESSORIES
AND POWER



CABLES
AND
CONNECTIVITY

**FLEXIBLE WORKSPACE
ACCESSORIES**

The Koncis™ Monitor Arm Mounts are designed to meet the needs for your classroom desk space or home office. With enhanced ergonomics, productivity is sure to be optimal, no matter where you are.

CHIEF



LEARN
MORE

EXPLORE

DECLUTTER YOUR DESKSPACE

Add power and charging wherever it's needed with the Wiremold Desktop Power Centers. They offer an easy install that mounts directly onto surfaces to minimize cord clutter.

WIREMOLD



BEST-IN-CLASS POWER STRIPS

Reliable, accessible and safe power distribution for all your technology. U.S. engineered and designed to meet the needs of any classroom or computer lab. Available in different sizes ranging from 8 outlets to 24 outlets.

**MIDDLE
ATLANTIC**



LEARN
MORE

CONTROL YOUR CLASSROOM

The AV Controller allows for full control of all your classroom equipment. It's the perfect addition to making teaching easier with everything right at your fingertips.

C2G.



**EXTEND USB DEVICES WITH
EASE**

The 1-Port USB 2.0 Over Cat6 Wall Plate to Box Extender is a simple, yet powerful solution for extending USB signals beyond their native 16.4 foot length limitation. Extends USB 2.0 signals for a single USB device up to 150 feet (45.7 m) over a single Cat6 cable. TAA compliant.

C2G.



**THE PERFECT HYBRID DOCKING
STATION FOR LEARNING**

The USB-C® 7-in-1 Dual Display Docking Station supports connected devices, such as keyboards, mice, portable hard drives, and other peripherals, all while supporting up to 65W of power delivery to charge and power a laptop. Connect a USB-C laptop or tablet to two additional displays and USB devices for data transfer while simultaneously charging.

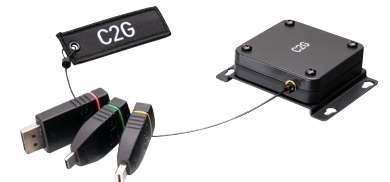
C2G.



**THE EASY WAY FOR EVERYONE
TO CONNECT**

The Retractable Universal Mount 4K HDMI Adapter Ring is the perfect addition to classrooms and ensures that anyone can connect. Standard configuration includes color coded HDMI to DisplayPort, Mini DisplayPort, or USB-C adapters that has an integrated pull tab so adapters can be easily reached when they're tucked away.

C2G.



24% US SCHOOLS DECLARING HYPRID LEARNING FOR FALL

Hybrid (or HyFlex) courses are delivered both in person and online at the same time by the same faculty member. See how it works. >

BYE OFFICE, HELLO RECORDING STUDIO

Presidents, deans, & staff can record and live stream messages from AV studios on campus. Explore solutions for the ultimate mini broadcast setups. > LEARN MORE

TOP 3 REASONS FOR ON-CAMPUS DIGITAL SIGNAGE

1. Wayfinding
2. Informational
3. Emergency Notification

HYBRID MEETING ROOMS

Small meeting rooms are ideal for studying, tutoring, working on a small group project or interviewing and collaborating via video conference calls. > LEARN MORE

WHEN IN DOUBT, LEND IT OUT

Equip mobile carts with PTZ cameras to provide a flexible live streaming solution that travels anywhere on campus. > LEARN MORE

HOME OF THE BRAVE

Did you know... Vaddio PTZ cameras are designed and assembled in Minnesota, making them TAA compliant. > LEARN MORE

REAL SPORTS ON HOLD, MAE WAY FOR ESPORTS

Market expected to surpass \$1.1B with 79% of fans under 35. Expect this 'trend' to become a major recruiting tool in the near future.

ORDER UP!

Digital signage for foodservice, departmental news and special events with floor and wall-mounted kiosks. > LEARN MORE

MEET ME AT THE UNION

Connect on and off campus students in group study spaces, each equipped with a display monitor and PTZ camera. Consider a mobile solution > LEARN MORE

LABS ON CAMPUS

Record & stream lab work with overhead PTZ cameras and monitors so that both in-person and online students get a clear view of the lab work. > LEARN MORE

BIOLOGY
CHEMISTRY
PHYSICS
CULINARY

VIRTUAL TOURS UP OVER 200%

Virtual visits via live stream tours and recordings are available to help prospective students and parents capture the essence of the campus vibe. Static options like YouVisit say inquiries increase by 18% by offering an engaging virtual alternative.

HIGHER ED

DISCOVERING NEW CONNECTIONS ON CAMPUS

Technology was a big part of campus life even before the pandemic made remote learning ubiquitous. AV systems made it slightly more manageable when the world shut down and many higher-education institutions were able to transition their distance learning, lecture capture, collaboration tools and digital signage to enable safe learning solutions.

Still, the demand on remote learning infrastructure was massive, and a lot was learned in a very short time about what worked and what didn't work. Infrastructure challenges were spotted, limitations in certain pieces of AV technology were evaluated, and maybe more importantly, everyone learned a little bit about what it felt like to be a remote participant.

Greater understanding of how it feels to be at the far end of a classroom video stream has prompted more immersive redesigns of AV systems. Now those far-flung classmates will feel like they're in the middle of the action, and instructors are more free to move around a classroom now that they've got a handle on pan-tilt-zoom camera presets and remote controls.

This new, more supported interactive AV experience produces more participation and engagement, which helps answer a need for creating greater equity of experience between in-classroom and remote students.

And as more federal stimulus funding is dispersed to higher-education to support hybrid and hyflex modalities of sharing educational content, there will be new opportunities to expand the campus experience with technologies that create more immersive engagement in the classroom and online.

Other essential campus safety communications tools, such as digital signage, will also be a part of the next wave of campus tech solutions. Kiosks and wall-mounted displays can help with arrival and wayfinding information, and on an extracurricular note, these and outdoor displays can do double duty and boost school spirit on game day.

The Legrand | AV Solutions Engineering team is here to help explore the list of improvements that can ready campuses for the next level of engagement. With so many possibilities, and so much excitement around certain technology buzzwords, sometimes there can be a tendency to approach the situation from a technology angle first. But ideally, explains Solutions Engineer Brian Retzlaff, "The first step is discovering what exactly an ed-tech manager, digital learning department, IT administrator or instructor is seeking. That's what we really want to be the starting point."

Once the challenge or idea is identified, the discovery process continues, Brian says, "We'll have a conversation about the problems or concerns you have, rather than starting with the technology piece of it. Because we have experience and knowledge to point you toward a lot of different solutions, maybe some of which you never considered as a potential answer to the problem that you are experiencing."

Like a professor with user-friendly online office hours, reaching out to Legrand | AV Solutions Engineering is easy. There is a "Contact Us" button on the Solutions Diagrams that will connect you directly with Brian (aka Legrand | AV's "Secret Weapon"), and he'll be happy to talk about how to add new pieces to help make existing technologies work even better.

"I can help you find those parts and pieces so that you can walk away with a solution," he explains. From there, he can help provide the materials you need to get funding, and even connect you with one Legrand | AV's network of professional AV integrators to install the equipment. "You can decide how much of that solution you need to deploy and what kind of help you need to get it done," he says.



HIGHER ED

PORTABLE VIDEOCONFERENCING SOLUTION

Just about anywhere on campus can become a studio with a portable videoconferencing cart. Ready for the next livestreaming session or a remote meeting, this roving setup makes it easy to share technology among student organizations and creative groups. Instructors and administrators will appreciate the added flexibility in recording for lecture capture and distance learning.

Everyone likes being plugged in to live or recorded video options, especially when all the equipment you need is mounted securely to this purpose-built cart. The PTZ camera provides an instant upgrade to the basic laptop or mobile phone camera, allowing for better images and more professional angles. A conference mic captures what's being said, but you'll want to add speakers to this kit to hear the other end of the connection.

Consider adding an adapter ring to make sure users can connect a device to log in for streaming and synchronous video platforms. A docking station links everything together, and PoE power supports camera and mic operation.

With so many livestreaming platforms and endless social media content creation connecting more and more organizations on campus today, this mobile solution can add instant tech capabilities anywhere they're needed.



WHY WE LOVE IT

- Easily portable to share with other rooms and staff
- Quick alternative to a less permanent install
- A repeatable setup to utilize in multiple locations
- Asynchronous or Synchronous **learning solutions**
- For distance learning, lecture capture, streaming and videoconferencing

KICK IT UP A NOTCH

DYNAMIC HEIGHT ADJUST

WHY: Allow for people of all abilities to have easy access to the screen.

INVEST IN MORE AUDIO

WHY: Cover a larger room with an extra microphone.

CONSIDER MORE STORAGE

WHY: Store all those little parts & pieces behind the monitor.

PART NUMBERS

Vaddio ConferenceSHOT AV Bundle - TableMIC 1
999-99950-501W (White)

Chief Mobile AV Cart **LPAUB**

Chief Accessory Shelf **FCA613B**

Chief CPU Holder **FCA650B**

Chief Shelf **FCA810**

Middle Atlantic Slim Power Strip,
8 Outlet **PD-815SC-20**

C2G 10' CAT6 Snagless Cable (qty 4) **00817**

C2G 10' HDMI 4K Cable **56784**

C2G 10' USB 3.0 Cable **54175**

C2G Docking Station **54439**

C2G 4K HDMI Adapter Ring **29878**



HIGHER ED

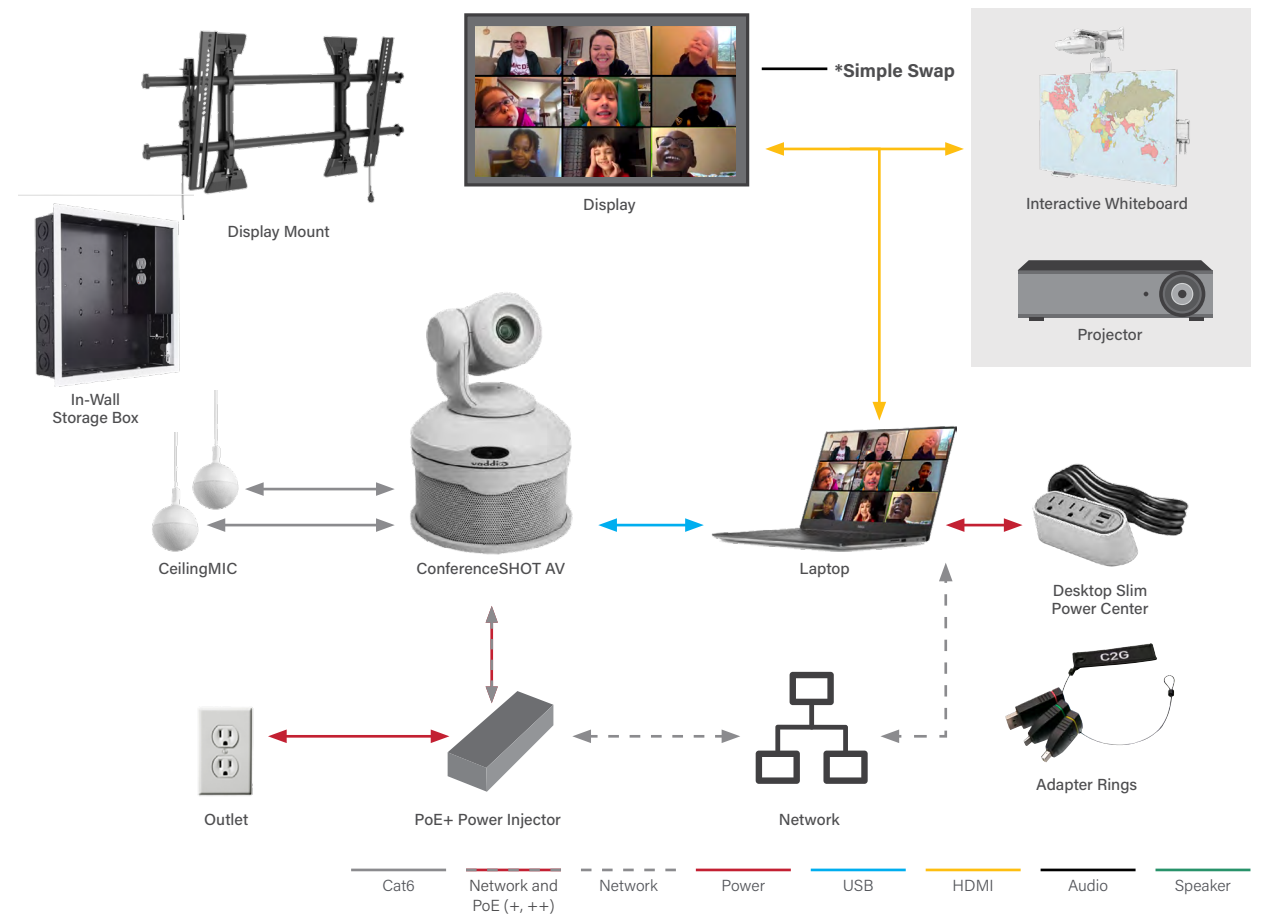
SMALL CLASSROOM SOLUTION

Outfit smaller classrooms or anywhere you need video recording or conferencing capabilities with this streamlined setup. Easily repeatable across a range of locations, this solution maximizes instructional spaces or offices and meeting spaces that need an easy-to-use video sharing solution.

Upgrading to a PTZ camera is the first step to more engaging hybrid learning experiences. Using a remote control, presenters can move the camera to follow them, or set presets for certain locations within the space, which allows for more natural movement around a room, freeing them from the small visual area of what a fixed camera or mobile device can capture. Using the zoom function to capture clearer images of course materials is also vital in sharing content remotely in live or recorded courses. Ceiling mics will ensure that students and room ambience are heard by their remote classmates or other guests on the far end of a lesson.

Add an adapter ring to ensure that any user can connect to the system, and this setup makes it easy for live synchronous collaboration or recorded lecture capture for asynchronous content.

While you're updating the classroom, don't forget the infrastructure upgrades that can maximize performance, save space and store equipment safely. Use an in-wall storage box to tuck equipment away behind a display, which itself can be securely mounted with any of a range of flexible solutions. Or if you're using a projection setup, consider updating your screen to take advantage of high-tech new screen materials that perform better in rooms with lots of natural light. And to top it all off, add some new desktop power centers to make it easy to plug in any type of mobile device.



WHY WE LOVE IT

- A repeatable setup to utilize in multiple locations
- Maximize the use of small spaces
- Use this same system to convert small offices and meeting spaces
- Hybrid **learning solution**
- For distance learning, lecture capture, streaming and videoconferencing

KICK IT UP A NOTCH

IN-CEILING STORAGE

WHY: Hide small equipment behind displays for a sneaky way to maximize space.

UPGRADE THAT SCREEN

WHY: Screen technology has come a long way including new ways to combat natural light.

PART NUMBERS

Vaddio ConferenceSHOT AV Bundle - CeilingMIC 2
999-99950-200W (White)

Chief Display Mount **LTM1U**

Chief In-Wall Storage Box (only if using a display)
PAC526FWP2

*Da-Lite Integrated Interactive System - Chief Mount + IDEA Screen **AN3WA100**

C2G 10' CAT6 Snagless Cable (qty 2) **00817**

C2G 50' CAT6 Plenum Cable (qty 3) **15274**

C2G 50' HDMI Plenum Active Optical Cable **41415**

C2G Docking Station **54439**

C2G 4K HDMI Adapter Ring **29878**

Vaddio 20m (65.6') USB 3.0 Cable **440-1005-023**

Wiremold Desktop Power Center Slim
WSPC220CWH



HIGHER ED

MEDIUM CLASSROOM SOLUTION

Add dimension to hybrid or distance learning by expanding the viewpoint. Capture more of the full classroom experience with AV systems that include students near and far, sharing interaction as it happens in real-time. This is a multipurpose classroom solution that optimizes the in-room experience for a variety of configurations, connecting an instructor and students on-site with students participating via a dedicated

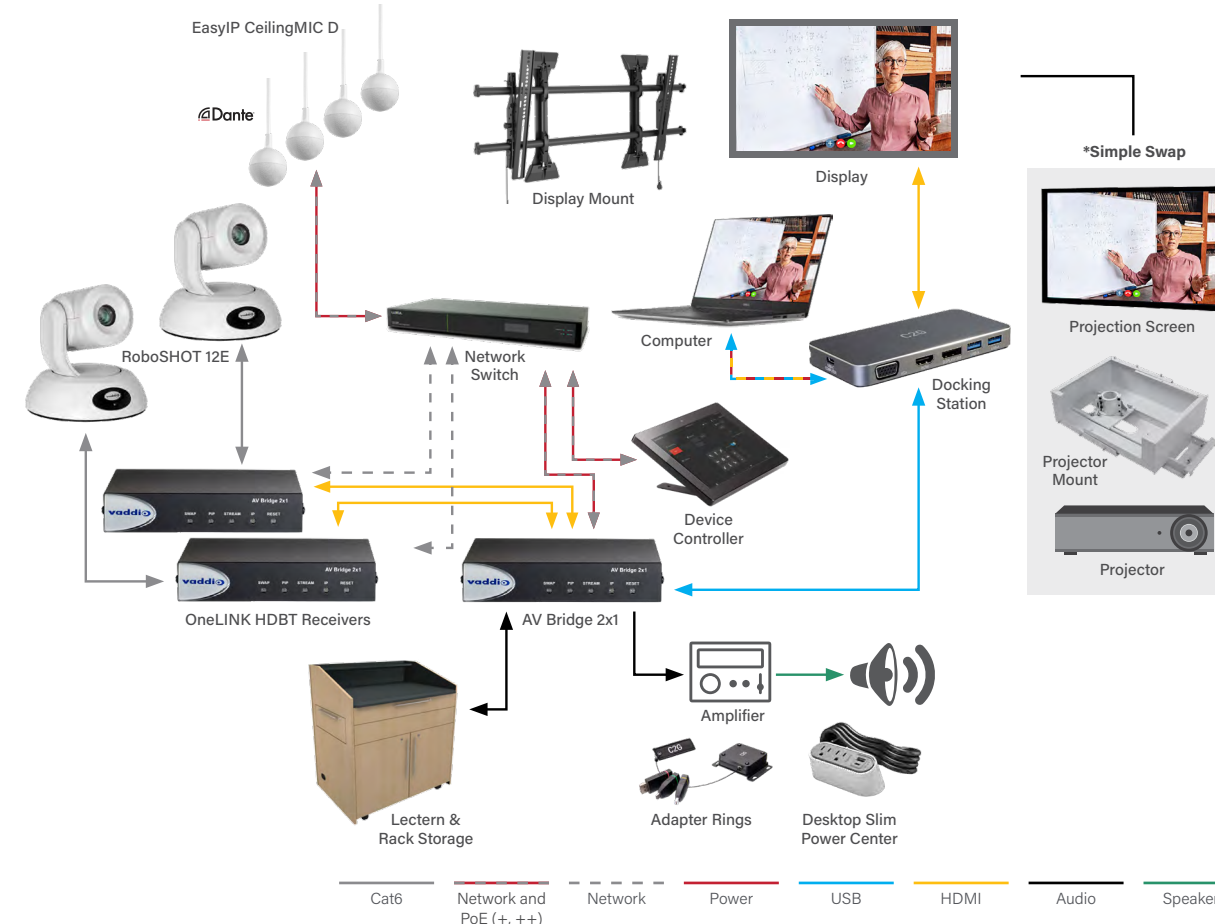
distance learning room, or for hybrid synchronous or asynchronous learning.

Students and instructors will feel more engaged across remote learning platforms with more layers of audiovisual content. Add cameras and create presets to go beyond a lectern-centric viewpoint and create new angles to show course materials and other students.

Make sure remote participants can hear what's happening and feel immersed in room ambience by distributing ceiling microphones across the classroom, both on the near end and in distance learning rooms on other campuses, so everyone can speak and be heard, no matter where they are sitting.

Video feeds from the remote rooms can be shared on more displays in the classrooms, and additional confidence monitors can be used to show presenters' slides and live video of remote participants, enhancing the feeling of connection across distance. Additional automation can be added for video overlays and triggers for content, boosting student engagement with real-time effects.

Network the whole system together for seamless streaming or recording of content, and consider adding intelligent power for remote management. On a local level, make sure the infrastructure is there to keep everyone connected, add desktop power centers and adapter rings.



WHY WE LOVE IT

- Multiple cameras provide ability to set presets in several locations
- Creates automation for student engagement with video overlays and triggers
- Plays well with third party equipment for ease of use
- Synchronous **learning solution**
- For distance learning and lecture capture

KICK IT UP A NOTCH

'NO-TOUCH' CAMERA ANGLE CHANGES

WHY: Allows users to present from different areas like a whiteboard and provide optimal viewing for participants.

ADD INTELLIGENT POWER

WHY: Provides remote management for ultimate power control.

MULTIPLY YOUR MONITORS

WHY: Give professors the ability to see content AND the faces of their virtual participants.

PART NUMBERS

- Vaddio RoboSHOT 12E HDBT OneLink HDMI System (qty 2) **999-99600-100W** (White)
- Vaddio AV Bridge 2x1 **999-8250-000**
- Vaddio EasyIP CeilingMIC D (up to qty 4) **999-85810-000**
- Vaddio Device Controller **999-42300-000**
- Chief Display Mount **LTM1U**
- *Chief Projector Mount **SYS474UW**
- *Da-Lite Cinema Contour Screen **21888V**
- Middle Atlantic L5 Series **L5-TURFR-33LDW**
- Luxul Network Switch **AMS-1208P**
- Wiremold Desktop Power Center **WSPC220CWH**
- C2G 50' HDMI Plenum Cable **41415**
- C2G 6' HDMI Cable (qty 2) **56783**
- C2G 50' Cat6 Plenum Cable (qty 2) **15274**
- C2G 15' Cat6 Cable (qty 2) **22016**
- C2G 10' Cat6 Cable (qty 4) **27153**
- C2G 10' USB 3.0 Cable **54175**
- C2G Docking Station **54439**
- C2G Retractable Universal Mount
- 4K HDMI Adapter Ring **29879**



HIGHER ED

LARGE CLASSROOM SOLUTION

Larger classrooms and learning spaces often require extra flexibility, whether because they are physically divisible or otherwise complex spaces, or because they might have even more hybrid and distance learning use cases. For these mega multipurpose spaces, a fully networked IP-enabled system will help deliver a long list of AV features.

Once a room goes IP-enabled, all video and power runs through a single switch, with cameras and other networked devices Powered over Ethernet (PoE). And the convenience of IP networking also allows for easily customizable combinations of AV sources and outputs. That can be a big help when there are more cameras, displays, microphones, video switchers and mixers in the room.

Those video switchers and mixers handle a lot of the functions that make the whole classroom capture and display experience easier to manage. Switch between multiple camera presets to capture angles that connect instructors and students. Automated camera angle changes can also be triggered by "no touch" sensors such as step mats, making it easy for a presenter to move freely and always stay in frame.

This solution design provides the full suite of hybrid and distance learning options, both synchronous and asynchronous, including lecture capture, streaming and videoconferencing. And the layout and operation of the room can be easily reconfigured to create more immersive learning scenarios or facilitate active learning discussion groups. Plenty of tabletop connections, various display mounts, large-scale projection, full-room microphone capture and inputs from instruction and collaboration tools can be handled and dispatched for in-room and far-end display.



WHY WE LOVE IT

- All video and power runs through a single switch
- IP enabled system (PoE powered)
- Flexible to be used for multiple spaces including divisible classrooms
- Hybrid learning solution
- For distance learning, lecture capture, streaming, and videoconferencing

KICK IT UP A NOTCH

ADD INTELLIGENT POWER

WHY: Provides remote management for ultimate power control.

CONSIDER IN-WALL STORAGE

WHY: Get stealthy storage for clean, short cable runs and organization.

'NO-TOUCH' CAMERA ANGLE CHANGES

WHY: Professors focus on the lecture not the tech with solutions like a step mat and sensor kit that automatically change the camera angle.

PART NUMBERS

- Vaddio EasyIP 10 Camera (up to qty 4) **999-30200-000W** (White)
- Vaddio EasyIP Mixer **999-60320-000**
- Vaddio EasyIP CeilingMIC D (up to qty 4) **999-85810-000**
- Vaddio Device Controller **999-42300-000**
- Chief Display Mount **LTM1U**
- *Chief Ceiling Projector Mount **SYS474UW**
- *Da-Lite Wireline Advantage Screen **29875**
- Middle Atlantic Lectern L7 Series **L7-F61A-WD-SLHA7**
- Middle Atlantic Select Series UPS Backup Power **UPS-1000R**
- Middle Atlantic UPS Network Interface Card **UPS-IPCARD**
- Middle Atlantic Slim Power Strip **PD-815SC-20**
- Luxul Network Switch **AMS-2624P**
- C2G 50' Cat6 Plenum (qty 4) **15274**
- C2G 15' Cat6 (qty2) **22016**
- C2G 50' HDMI Active Plenum Cable **41415**
- C2G 15' HDMI Cable **50612**
- C2G 10' USB 3.0 Cable **54175**
- C2G Retractable Table Box Mount
- 4K HDMI Adapter Ring **29880**



HIGHER ED

AUDITORIUM SOLUTION

The ease of automation can expand the use of auditorium spaces. Used in addition to a full-scale auxiliary camera setup with in-house AV technicians, or setup as an autonomous solution for lecture capture or remote learning, robotic cameras and video switchers can help maximize the use of a large-scale presentation space.

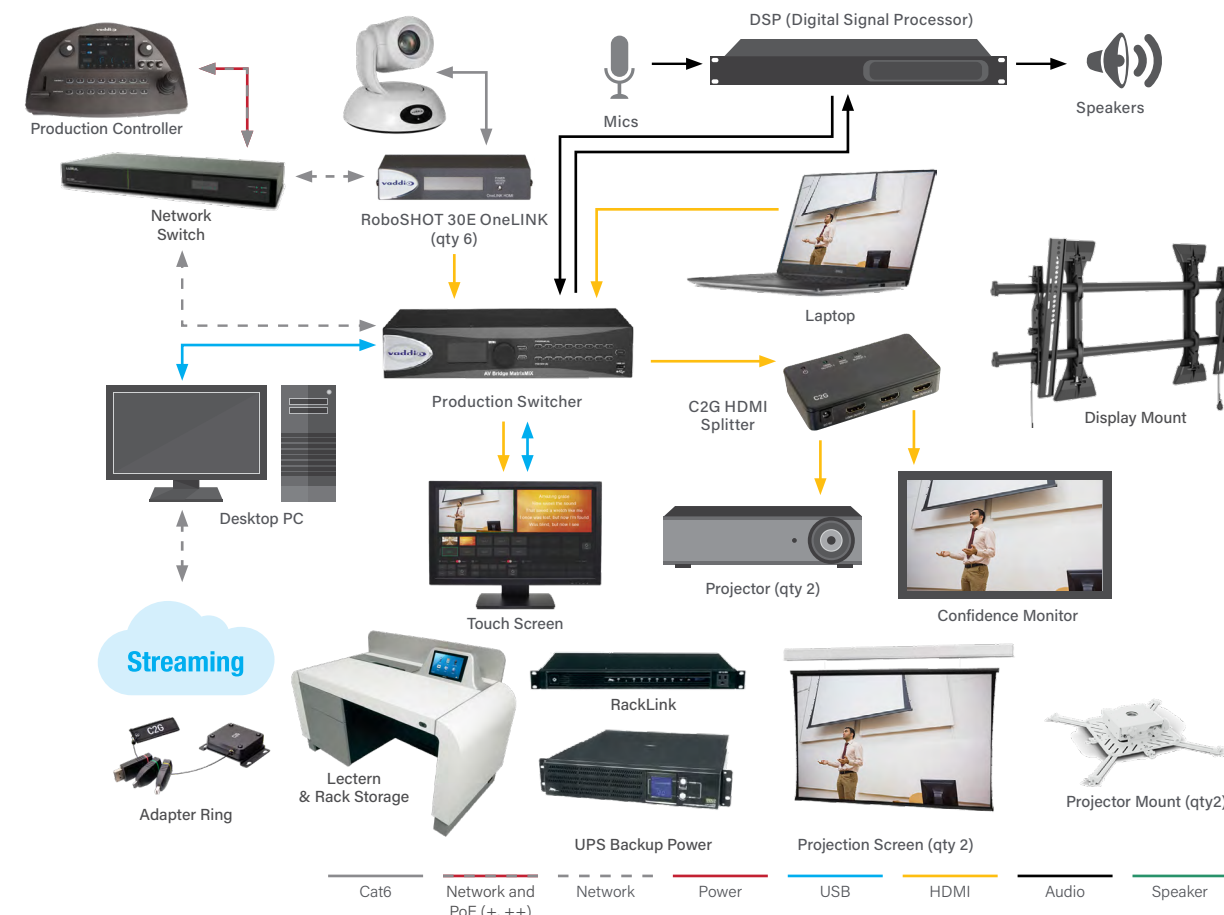
Advanced camera control allows for multiple viewpoints, and programmed presets will optimize the angle for specific capture needs. Camera switching can be automated through a variety of

means, including presenter tracking, which allows the person on stage to move freely while continually remaining in frame. Additional hands-free camera automation can be set up with technologies such as a sensor-driven step mat, which will trigger camera switching when stepped on while a presenter moves throughout the presentation area.

All of these technologies are designed to help the presenter or instructor focus on their material instead of worrying about how to make the system work. In addition to advanced camera control, the production switcher also handles graphics mixing. Automated video overlays can enhance content, and custom triggers can be set to react to audience engagement. Large projection screens can be used for image magnification or presentation content. And don't forget the confidence monitor for the presenter.

AV systems operators will also have plenty of capability and flexibility with a production controller designed for ease of use. The production switcher can be networked with a digital signal processor (DSP) to handle audio, and a HDMI splitter for visual displays. Full power management and an uninterruptible power supply (UPS) backup capabilities ensure failsafe operation for events.

To complete the solution, opt for robust hardware solutions designed to securely store and contain hardware. A rolling lectern with built-in rack storage can lock everything away when the room is not in use. Projector and display mounts make sure everything stays in place. And the ever handy adapter ring can help solve connectivity conundrums related to the presenter's laptop.



WHY WE LOVE IT

- Multi-functional solutions combines switching, advanced camera control and graphics mixing
- Multiple cameras provide ability to set presets in several locations
- Creates automation for audience engagement with video overlays and triggers
- For large lecture halls, auditoriums, executive board rooms, lecture capture, videoconferencing and livestreaming

KICK IT UP A NOTCH

'NO-TOUCH' CAMERA ANGLE CHANGES

WHY: Professors focus on the lecture not the tech with solutions like a step mat and sensor kit that automatically change the camera angle.

PRESENTER TRACKING

WHY: Gives you the ability to move around the room automatically while the camera follows you.

PART NUMBERS

Vaddio AV Bridge MatrixMIX Production System (Includes PCC MatrixMIX and AV Bridge MatrixMIX) **999-5660-500**
 Vaddio RoboSHOT 30E HDBT OneLINK HDMI System (qty 6) **999-99630-100W**
 Vaddio TeleTouch 27" USB Touch-Screen **999-80000-027**
 Chief Display Mount **LTM1U**
 Chief Projector Mount (qty 2) **VCTUW**
 Chief Vibration Isolating Coupler (qty 2) **CMA348W**
 Da-Lite Wireline Advantage Screen (qty 2) **29875**
 Middle Atlantic Lectern L7 Series **L7-F61A-WD-SLHA7**
 Middle Atlantic Premium+ PDU with RackLink **RLNK-P915R**
 Middle Atlantic Premium Series UPS Backup Power **UPS-1000R**
 Middle Atlantic UPS Network Interface Card **UPS-IPCARD**
 Luxul Network Switch **AMS-2624P**
 C2G HDMI Splitter **41057**
 C2G 100' Cat 6 Plenum Cable (qty 3) **15276**
 C2G 50' Cat6 Plenum Cable (qty 3) **15274**
 C2G 15' Cat6 Cable (qty 8) **22016**
 C2G 35' HDMI Plenum Cable (qty2) **41414**
 C2G 10' HDMI Cable (qty 9) **56784**
 C2G 10' USB 3.0 Cable **54175**
 C2G 100' HDMI Plenum Cable **41369**
 C2G Retractable Table Box Mount
 4K HDMI Adapter Ring **29880**



HIGHER ED

LECTURE CAPTURE SOLUTION

One of the fundamental tools that adds flexibility to education is lecture capture. Recorded either live in the classroom or asynchronously for sharing out to students, this mode of content delivery supports many styles of learning.

Lecture capture has made it significantly easier to distribute information and use class time in more dynamic ways. Some instructors pre-record their lectures and make them available to students ahead of class, so they can absorb the material on their own time. This allows use of in-person class time for group work and discussions that focus on material and concepts that are best learned in the classroom.

This lecture capture solution includes a high-quality robotic camera for better, more engaging video, and a connecting bridge that has inputs for audio and video, along with connections for the instructor's PC for sharing course materials or other desktop content, and an IP streaming output for delivery to the lecture capture platform.

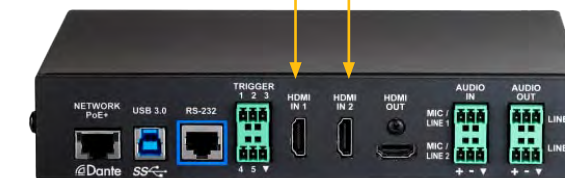
The setup is easy for instructors to use on their own. And it's also an efficient solution for AV technologists to operate from a lecture capture booth.



RoboSHOT 12E
HDMI

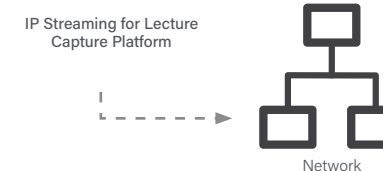


Computer for Content or
Lecture Capture



AV Bridge 2x1

USB 3.0 for
Lecture Capture



IP Streaming for Lecture
Capture Platform

Network



WHY WE LOVE IT

- Premium quality video with a fully featured audio processor provides best-in-class video and audio quality
- Record to nearly any platform with equipment that doesn't require driver downloads on the computer
- Stream directly to a cloud based lecture capture system using built-in streaming encoder

KICK IT UP A NOTCH

'NO-TOUCH' CAMERA ANGLE CHANGES

WHY: Use automated triggers to recall presets.

INTELLIGENT POWER

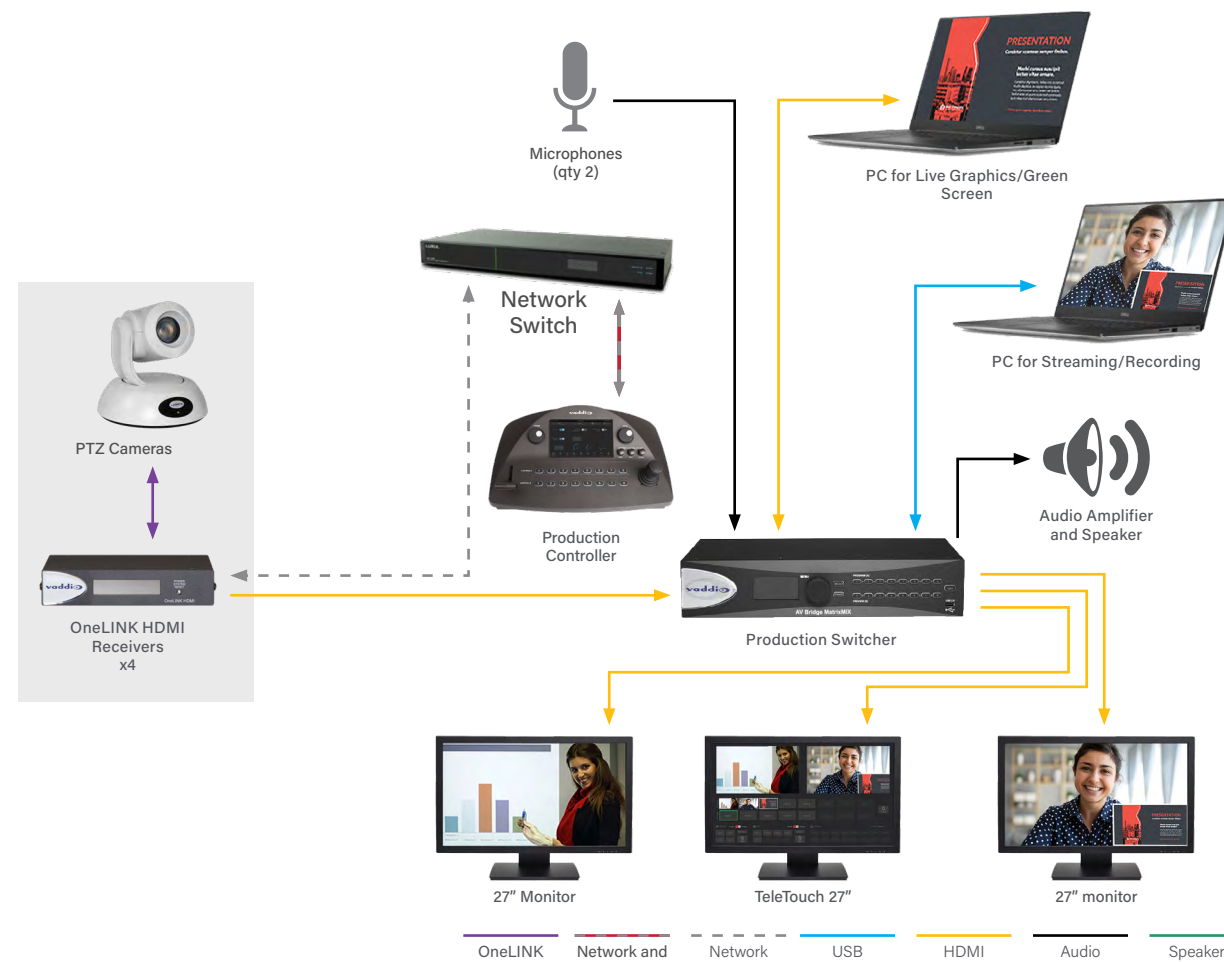
WHY: Provides remote management for ultimate power control.

MORE AUDIO, MORE COVERAGE

WHY: Add a Dante table microphone to allow for control over the network.

PART NUMBERS

- AV Bridge 2x1 **999-8250-000**
- RoboSHOT 12E HDMI (Black or White) **999-99400-000**
- 999 -99400-000W**
- C2G 6ft High Speed HDMI Cable **56783**
- C2G 10ft CAT6 Cable **27153**
- C2G 3M USB 3.0 Cable **54175**



HIGHER ED

RECORDING/ LIVESTREAMING STUDIO SOLUTION

Even before remote learning was a daily necessity, it was often said that we are all broadcasters now. The ability to produce content for streaming or sharing on education and social platforms has become a vital part of communications. This is particularly the case in education, where the production of video content supports coursework and also an expanding roster of events, gatherings of clubs and organizations, speaking engagements and fundraising efforts.

With so much content available today, expectations for quality have been raised. Fortunately, video technology has also upped its game, with more flexible, powerful and easy-to-use production tools available to suit a number of needs.

Setting up your own mini-broadcasting studio can be fairly streamlined with the selection of a few multipurpose tools. PTZ cameras will provide professional-quality video with the ability to move and zoom in smoothly. The video and audio inputs can be networked to a production and/or livestreaming setup via HDMI.

To get a polished look to your content, a production switcher can handle the video effects, transitions and AV distribution for local displays, producers' studios and confidence monitors. And a production controller makes capture, recording and live broadcasts easy to manage.

WHY WE LOVE IT

- Produce broadcast quality live events with ease
- Easy to use touchscreen functionality
- Advanced functions are accessed in the controller for graphic overlays, setting camera presets and more
- Advanced audio processor allows for echo cancellation of remote participants
- Dual purpose system, can use the touchscreen or the controller, or both, depending on skill levels

Ideal For: campus news channels and student run announcements

KICK IT UP A NOTCH

BACKUP POWER

WHY: When power goes out, your system won't. Ensure streaming and recording keep working no matter what.

OPERATE & STORE GEAR LIKE A PRO

WHY: An ergonomic desk will keep things neat and easily accessible while providing equipment storage.

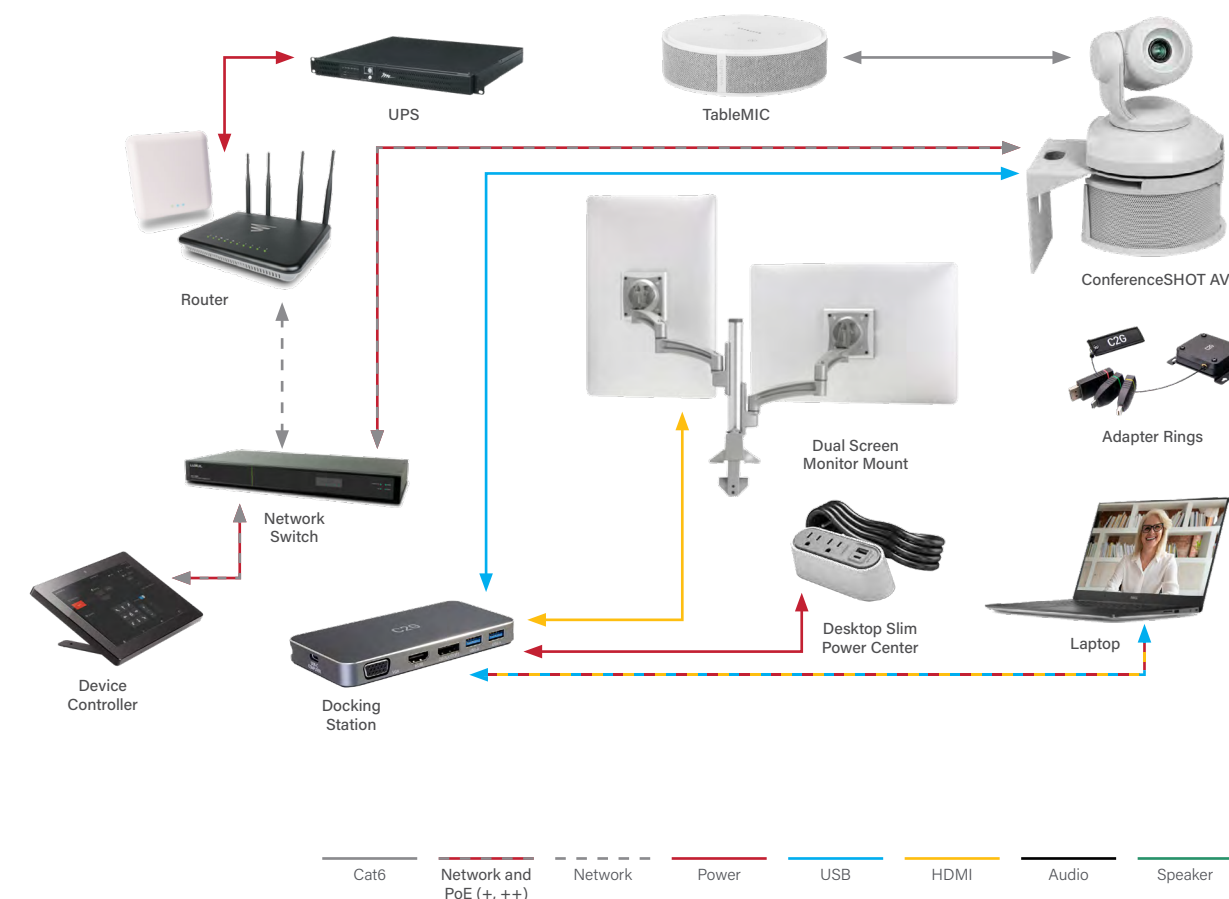
CONTROL FROM ANYWHERE

WHY: Add a router with ProWatch Plus to control your studio on or off campus.

PART NUMBERS

- Vaddio RoboSHOT 12E HDBT OneLINK HDMI System
999-99600-100 - Black
999-99600-100W - White
- Vaddio RoboSHOT 30E HDBT OneLINK HDMI System
999-99630-100 - Black
999-99630-100W - White
- Vaddio AV Bridge MatrixMIX Production System
999-5660-000
- Vaddio PCC MatrixMIX Live Production Controller
999-5755-000
- Vaddio TeleTouch 27" USB Touch-Screen Multiviewer
999-80000-027
- C2G 100' HDMI 4K Cable **41369**
- C2G 15' Cat6 Cable **22016**
- C2G 10' HDMI 4K Cable **56784**
- C2G 10' USB 3.0 Cable **54175**
- Luxul Network Switch **AMS-1208P**

↓ Get the Full List of Parts & Pricing (all prices are in US MSRP)



HIGHER ED

TEACHING/ LEARNING FROM HOME

At this point, we are all familiar with the limitations of a basic laptop setup when it comes to teaching and learning from home. Now that more flexible options for remote work are likely here to stay, it might be time to upgrade your setup. And if you need additional incentive, the technology pieces in this solution are the same ones that might be used to enhance the hybrid video and lecture capture capabilities of a classroom or

meeting room at school. So if circumstances change, this kit can easily be transported to a different location for professional video output capabilities.

First, consider a dual-screen monitor setup to help keep your eye on the video chat and also course materials or other desktop content. Also fundamental is a conference-ready PTZ camera that will capture higher-quality video and provide professional camera movement to follow you to a whiteboard and zoom in, as needed. Add a table microphone to make sure you're heard clearly, no matter where you move within the space. Together, these tools produce high-quality audio with built-in echo cancellation, so your voice won't be picked up and repeated.

Other pieces to this setup can really help free up your workspace and create tranquility. A docking station connects a laptop, camera and displays, using one cable, and it can also be connected to a desktop power center, so you can plug everything into one source.

Adding intelligent power can simplify operation with remote management, and an uninterruptible power supply (UPS) makes sure that you stay powered up. While you're looking at infrastructure, consider adding a professional equipment rack to store gear like a pro and protect the longevity of your investment with proper thermal and cable management.

WHY WE LOVE IT

- High quality audio with echo cancellation
- Frees up your workspace
- Synchronous **learning solution**
- For distance learning, lecture capture, streaming and videoconferencing

KICK IT UP A NOTCH

ADD INTELLIGENT POWER

WHY: Provides remote management for ultimate power control.

STORE GEAR LIKE A PRO

WHY: AV Racks protect the longevity of your investment by providing proper thermal and cable management.

INVEST IN MORE AUDIO

WHY: Make sure content and virtual participants can be heard from anywhere.

PART NUMBERS

Vaddio ConferenceSHOT AV Bundle - TableMIC 1 **999-99950-300W** (White)

Vaddio Device Controller **999-42300-000**

Vadido USB 3 Active Cable 26' **440-1005-008**

Luxul Network Switch **AMS-1208P**

Luxul Router **WS-250**

Chief Kontour Dual Screen Monitor Mount **K2C220S**

C2G Docking Station **54439**

C2G 10' Cat6 (qty 4) **00817**

C2G 10' HDMI **56784**

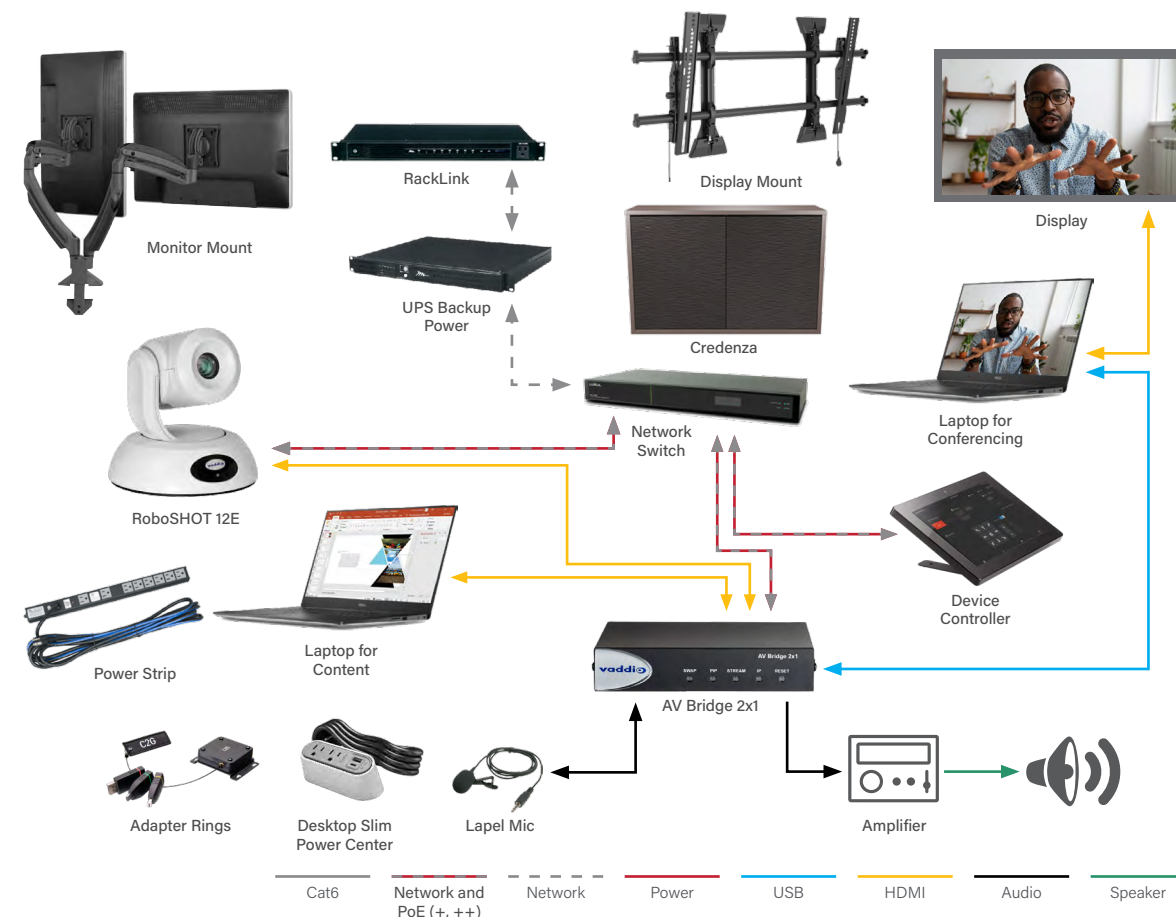
C2G 10' DP-HDMI **54327**

C2G Retractable Universal Mount

4K HDMI Adapter Ring **29879**

Middle Atlantic Select Series UPS Backup Power, 1RU, 500VA **UPS-S500R**

Wiremold Desktop Power Center Slim **WSPC220CWH**



HIGHER ED

EXECUTIVE HOME OFFICE/ ADMINISTRATIVE CONFERENCE ROOM

When the videoconferencing and streamed meetings you are hosting from home need to have a professional look and feel, the addition of robust technologies and higher-end mounting and storage solutions can provide a polished appearance. And this setup is equally suited to update conference rooms on campus, too. Now that more spaces will likely need to be video-ready for hybrid administrative meetings, presentations by the office of the dean, or K-12 district meetings or parent conferences, this solution can make it easier to focus on the conversation instead of the technology.

A robotic PTZ camera not only provides better image quality, but it can also be programmed with automated presets that position it for different locations within your office. When you move to a whiteboard or flipchart, the camera will follow you and capture what is written. You can also automate video overlays and graphics with triggers to help create engaging content.

Use a dual-monitor display mount to keep your video audience in view while you also have your notes and documents within your line of sight. A professional equipment rack housed within a sleek credenza makes sure everything is stored and powered properly. Throw in intelligent power and an uninterruptible power supply (UPS) backup to make sure you stay connected.

WHY WE LOVE IT

- Recreate the best office experience with high quality video and audio products right from your own home
- Program camera presets for different locations within your office (whiteboard or flip chart)
- Create automation for better audience engagement with video overlays and triggers
- For videoconferencing and streaming

KICK IT UP A NOTCH

DOCK WITH EASE

WHY: Connect all desktop peripherals with a single cable, including dual displays, while also charging your laptop.

STORE GEAR LIKE A PRO

WHY: AV Racks protect the longevity of your investment by providing proper thermal and cable management.

'NO-TOUCH' CAMERA ANGLE CHANGES

WHY: Allows users to present from different areas like a whiteboard and provide optimal viewing for participants.

PART NUMBERS

- Vaddio RoboSHOT 12E HDMI **999-99400-000W** (White)
- Vaddio AV Bridge 2x1 **999-8250-000**
- Vaddio Device Controller **999-42300-000**
- Chief Display Mount **LTM1U**
- Chief Kontour Monitor Mount Arms **K1D220B**
- Luxul Network Switch **AMS-1208P**
- Middle Atlantic C3 Credenza **C3C2D2M4HA3ZP001**
- Middle Atlantic **RLNK-P915R**
- Middle Atlantic Select Series UPS Backup Power **UPS-S1000R**
- Middle Atlantic Slim Power Strip **PD-815SC-20**
- C2G 6' HDMI Cable **56783**
- C2G 10' Cat6 Cable (qty 2) **27153**
- C2G 10' USB 3.0 Cable **54175**
- C2G 50' Cat6 Plenum Cable (qty 3) **15274**
- C2G 50' HDMI Active Cable (qty 2) **41415**
- C2G Docking Station **54439**
- C2G Retractable Universal Mount
- 4K HDMI Adapter Ring **29879**
- Wiremold Desktop Power **WSPC220CWH**

LIVESTREAMING & VIDEOCONFERENCING



AV BRIDGE 2X1

Makes it easy to record and stream high-definition video – ideal for lecture capture. Two HDMI inputs allow for switching between two cameras or a camera and computer. Select picture-in-picture options for more engaging live presentations and lectures.



LEARN MORE

EASYIP MIXER BASE KIT

This AV-over-IP classroom system in a box is ideal for large classrooms and multi-camera applications. The EasyIP Mixer combines Dante audio sources and four Vaddio EasyIP cameras to deliver our easiest production system to date. Base kit includes one EasyIP Mixer, one EasyIP Switch, and one EasyIP 10 Camera.



LEARN MORE

CONFERENCEHOT AV BUNDLE - CEILINGMIC 1

ConferenceSHOT AV integrates a 10X zoom PTZ camera and audio conferencing mixer into a single USB 3.0 device, so you can easily connect microphone and external speaker to the camera. Bundle includes one ConferenceSHOT AV camera, one ConferenceSHOT AV Speaker and one CeilingMIC microphone.



LEARN MORE

PROJECTION SCREENS

TENSIONED ADVANTAGE SERIES

The Tensioned Advantage® ceiling recessed electric screen series is designed with ceiling trim in place to conceal the rough opening—eliminating the need to complete additional trim work once the screen is installed.

Its two-stage installation option affords the screen case to be installed during the rough-in construction stage, and the screen surface assembly during the finishing stage. Sliding installation brackets allow mounting flexibility for easy attachment of the screen housing to the structure above the drop ceiling.

IDEA SCREEN

Can be used as a touch screen AND as a whiteboard with dry-erase markers. Featuring upgraded durability, surface uniformity and rigidity to ensure a superior interactive experience, all IDEA® Screens are also magnetic and easy to clean. Its thin frame ensures minimum interference and maximum surface area for interactivity with ultra-short throw projectors.

The erasable surface is hotspot-free under projection. A tray for storing markers, erasers and interactive tools makes it the ideal classroom partner.

CINEMA CONTOUR

Features a wider, more substantial frame – plus the latest technology in projection surfaces designed for 4K and Ultra HD to maximize the technology of your projector. The larger standard black frame gives the eye a point of reference and enhances contrast.

DA-LITE



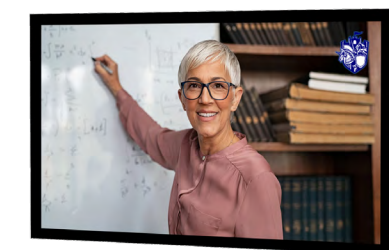
LEARN MORE

DA-LITE



LEARN MORE

DA-LITE



LEARN MORE

FURNITURE & POWER



L7 SERIES LECTERNS - IDEAL FOR HYBRID LEARNING

L7 Series Height Adjustable Lecterns are the faculty's new epicenter for hybrid learning. Provides a generous workspace plus room for equipment storage, power and connectivity. Offers touch screen cutouts that are intelligently designed to sit flush with the panel - fitting the Crestron 760 and 1060 touch screen. ADA compliant with rackmount storage and wireless charging. Made in the USA.

MIDDLE ATLANTIC



BEST-IN-CLASS POWER MANAGEMENT SOLUTION

The Premium+ PDU with RackLink™ provides enhanced control/logging at the individual outlet level, real-time system and environmental monitoring, and robust network security to remotely manage your AV systems.

MIDDLE ATLANTIC



CABLES & CONNECTIVITY

THE PERFECT CABLE FOR CLASSROOM PROJECTORS

The High-Speed HDMI® Active Optical Cable (AOC) 4K 60Hz plenum-rated cable extends HDMI signals over optical cable and supports the latest HDMI features including 4K at 60Hz, 3D video and deep color.

C2G.



LEARN MORE

THE EASY WAY TO EXTEND USB DEVICES

The 1-Port USB 2.0 Over Cat6 Wall Plate to Box Extender is a simple, yet powerful solution for extending USB signals beyond their native 16.4 ft. length limitation. Extends USB 2.0 signals for a single USB device up to 150 feet (45.7 m) over a single Cat6 cable. TAA compliant.

C2G.



LEARN MORE

THE PERFECT HYBRID DOCKING STATION FOR OFFICE DESKTOPS

The USB-C® Dual Display MST Docking Station supports connected devices, such as keyboards, mice, portable hard drives, and other peripherals, all while supporting up to 65W of power delivery to charge and power a laptop. Connect a USB-C laptop or tablet for video extending and data transfer while simultaneously charging.

C2G.



LEARN MORE

THE EASY WAY FOR EVERYONE TO CONNECT

The Retractable Universal Mount 4K HDMI Adapter Ring is the perfect addition to conference rooms, huddle spaces, lecture halls or classrooms to make sure that anyone can connect. Standard configuration includes color coded HDMI to DisplayPort, Mini DisplayPort, or USB-C adapters that has an integrated pull tab so adapters can be accessed quickly or easily reached when they're tucked away.

C2G.



LEARN MORE

WHY C2G?

- 7,000 readily available connectivity solutions with in-depth solutions for the workstation and attach to client devices
- Lifetime warranty on all cables
- Customized connectivity is ready and quickly deployable to meet customer need
- Heavily stocked in central location for quick shipments to all areas of the continental US

CAMERAS

Now that we're all familiar with how camera angles and image quality can make or break a video session, it might be time to consider a multi-camera solution. Whether you're adding cameras to an existing AV system, starting from scratch with a full suite of image capture options, or adding video to an audio setup, there are options to meet your needs.

Starting with a two-camera setup can undoubtedly enhance the options for a room. Focus one camera on the instructor and the other camera on the students so their remote classmates can see and hear what's happening. Or use the second camera to capture a whiteboard or tabletop in a collaborative laboratory or design environment.

For larger spaces or rooms where complex information will be presented, adding more cameras and well-placed ceiling microphones can help virtualize the classroom experience. Add a video mixer to integrate graphics and the extremely useful picture-in-picture function, which allows simultaneous viewing of the presenter and the content to create more engagement.

CAMERA SYSTEMS FOR HIGHER-ED CLASSROOMS

HUDDLESHOT ALL-IN-ONE CONFERENCE CAMERA

- Easy to use – plug and play simplicity
- Fixed camera with ultra-wide 125° horizontal FOV
- Two built-in microphones pick up participant's voices from up to 12ft away
- Attachable CeilingMIC to extend microphone pick up
- Compatible with all major collaboration software
- Lead time: <10 days, built in the USA.



CONFERENCEHOT AV BUNDLES

- Easy to use – plug and play simplicity
- HD PTZ Camera with 10X zoom, supporting up to 1080p/60 resolution
- Robust coordinating speaker to clearly hear remote student comments
- Built-in echo cancellation and 360 mic coverage
- Compatible with all major collaboration software
- Lead time: <10 days, built in the USA



EASYIP MIXER BASE KIT

- AV-over-IP classroom system in a box
- Ideal for large classrooms, divided multipurpose rooms and multi-camera applications
- Pair up to four HD PTZ cameras with 10x or 20x zoom
- Compatible with all major collaboration software
- Simultaneously record to a local PC and magnify the speaker video through a room projector
- Lead time is <10 days, built in the USA



MULTI-CAMERA SOLUTIONS FOR HIGHER-ED

		SYSTEM UPGRADE	MOST POPULAR	ADDING CAMERAS TO AUDIO SYSTEM
		VADDIO	VADDIO	VADDIO
PRODUCT		AV Bridge 2x1	EasyIP Decoder	EasyIP Mixer
# OF CAMERAS		1-2 Cameras	1-4 Cameras	1-4 Cameras
ZOOM		Pair with any HDMI camera	10x or 20x	10x or 20x
AUDIO		Audio I/O	Pair up to two TableMICs or CeilingMICs	Pair up to four Dante Audio sources and/or use analog audio I/O
BUILT-IN ECHO CANCELLATION		✓	✓	✓
STREAMING	RTSP/RTMP	✓		
	USB 3.0	✓	✓	✓
COOL FACTOR		Integrates with existing AV	Double up decoders to make rooms BYOD and Zoom/Teams rooms	Allow up to 4 cameras and flexible audio through its Dante support into any room
		Simultaneous streaming to cloud platforms and videoconferencing software	Easy installation over Cat5 cabling and PoE+ powered devices	Picture in Picture and On Screen Graphics features for enhanced production value
		Connect two cameras or one camera & PC content for engaging Picture in Picture views	EasyMICs provide exceptional audio coverage and simple installation	HDMI out for confidence monitor or overflow room display
PRICE		\$	\$-\$\$	\$-\$\$\$
PART #		999-8250-000	999-60210-000	999-60320-000

TOP 3 CAMERAS FOR HIGHER-ED

		BETTER	MOST POPULAR	PREMIUM
		VADDIO	VADDIO	VADDIO
PRODUCT		ConferenceSHOT AV	RoboSHOT 12E HDBT with OneLINK Bridge	EasyIP 20 Mixer Base Kit
ZOOM		10x	12x	20x
AUDIO		Add up to two table or ceiling mics or select a bundle with built-ins	A professional audio interface (I/O); replaces the need for separate audio system	Audio I/O via the EasyIP Mixer and optional EasyIP CeilingMICs
STREAMING	RTSP/RTMP	✓	✓	
	USB 3.0	✓	✓	✓
COOL FACTOR		Choose from a variety of bundles perfect for your classroom	Allows for external audio system integration	Allow up to 1-4 cameras and 1-6 microphones
		Save preset views to keep presentations engaging	Ultimate installation flexibility	Easy installation over Cat5 cabling and PoE+ powered devices
		Highly customizable for each space	Integrates with existing AV	The 'IT' team favorite
PRICE		\$	\$\$	\$\$\$
PART #		Choose your bundle	999-99600-200	999-30231-000W

CARTS



TOP AV CARTS FOR HIGHER-ED

		MOST POPULAR			
		BASIC	STANDARD	PREMIUM	DELUXE
		CHIEF 	CHIEF 	CHIEF 	CHIEF 
PRODUCT		Large Manual Height Adjust Mobile Cart	Large Capacity Electric Height Adjust Flat Panel Cart	XL Electric Height Adjust Cart	FlexView Series IFP Cart
WEIGHT CAPACITY		200 lbs. (90kg)	200 lbs. (90kg)	200 lbs. (90kg)	200 lbs. (90kg)
STORAGE		Pair with any HDMI camera	10x or 20x	10x or 20x	10x or 20x
HEIGHT ADJUSTABILITY		Manual	Electric	Electric	Electric
SECURE RACK UNIT STORAGE					✓
ACCESSORIZE YOUR CART	CPU STORAGE	✓	✓	✓	✓
	SHELVES (CAMERA, AV ACCESSORIES)	✓	✓	✓	✓
	SPEAKER ADAPTERS	✓	✓		✓
PRICE		\$	\$\$	\$\$\$	\$\$\$\$
PART #		LPAUB	LPEIU	XPD1U	Varied Options

*Each cart is ADA compliant. Learn more about ADA [here](#).

VADDIO



NEED A CAMERA?
LEARN ABOUT OUR MOST POPULAR HIGHER ED SOLUTIONS
EXPLORE NOW

DISPLAY MOUNTS AND PROJECTOR MOUNTS

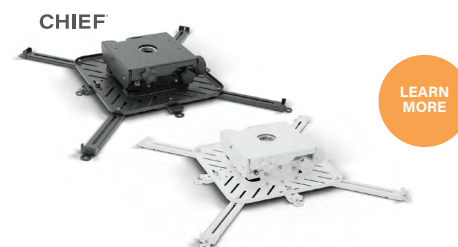
EXTRA-LARGE HEIGHT ADJUSTABLE CART & FLOOR SUPPORT MOUNT

Ideal for interactive applications, mounts with electric height adjustable capability create better accessibility to technology in the classroom. The height adjustable solution provides 26" (660 mm) of vertical lift.



SLEEK, SLIM, EASY-TO-INSTALL PROJECTOR MOUNT

The VCT Large Venue Projector Mount was designed to install quickly while maintaining a sleek aesthetic. Light and slim, the VCT works with projectors between 50 to 150 lbs (22.7 – 68 kg). Tool-free MicroZone adjustment ensures accurate and reliable image registration.



IDEAL FOR INTERACTIVE APPLICATIONS IN THE CLASSROOM

Fusion Dynamic Height Adjustable Wall Mounts with dynamic height adjustable capability create better accessibility to technology in the classroom. The height adjustable solution provides ultra-smooth and fast vertical travel with almost no effort. Ships fully assembled with the LSM1U mount to make this a complete aesthetic solution. Easy to install. Easy to adjust.



CHECK OUT THE MOBILE LIVESTREAMING CART

Here's a scalable stop-gap measure for creating e-learning on the fly: a mobile cart decked out with livestreaming equipment. It's flexible and mobile for easy transport and sharing between departments.

CHIEF

KEEPING CAMPUSES CONNECTED



TODAY'S DIGITAL SIGNAGE SOLUTIONS FOR YOUR CAMPUS

College campuses and universities around the world are embracing digital signage now more than ever as a key element of keeping students and staff feeling safe and informed when going back to campus.

Its proven ability to convey dynamic messaging where it's needed most has migrated Digital Signage from an experience solution to a true integral part of operations – expanding its role to include safety procedures, campus notifications, traffic control, scheduling and more.

THE NEW EVOLUTION OF DIGITAL SIGNAGE

Discover how Digital Signage is driving real time communication keeping our communities safe and operational

1



SAFETY PROTOCOLS

Place health and safety information where it's important messages with portable stands for digital signage.

2



REAL-TIME COMMUNICATIONS

Keep staff and students up-to-date.

3



CONTACTLESS COMMERCE

Quick and convenient, these curbside digital signage solutions inform personnel to keep operations running smoothly.

4



TRAFFIC CONTROL

Effectively communicate traffic and social distancing requirements to personnel with digital signage kiosks.



HIGHER ED

DIGITAL SIGNAGE SOLUTIONS

Digital signage serves an endless array of purposes throughout the campus environment. Taking all manner of shapes and sizes, these eye-catching video and messaging communications tools are springing up indoors and outdoors on more kiosks, on-wall displays and video wall solutions.

Visual messaging and wayfinding is essential to the constantly changing campus environment. The ability to provide up-to-the-minute protocols and systems for maintaining social distancing and other health and safety concerns is key. And these dynamic displays can also be updated with real-time information, such as campus notifications, traffic control, scheduling and events details. Beyond these important uses, creative digital signage content can also create a sense of familiarity and community as students return to campus.

This on-wall kiosk solution is one of the most versatile for higher education applications. First, it was built with easy maintenance in mind, with a mounting mechanism that makes it possible for a single technician to easily access and service a display. With the simple flip of a lever, the entire display swings out for repair. The cabling can extend with the display, so that HDMI connection will not be lost.

Protective glass adds an extra level of security. And behind the display, an in-wall storage box provides power filtering and a space to store small devices, which are easily mounted and secured with Proximity LeverLock hardware.





SAFE SPACES ON CAMPUS

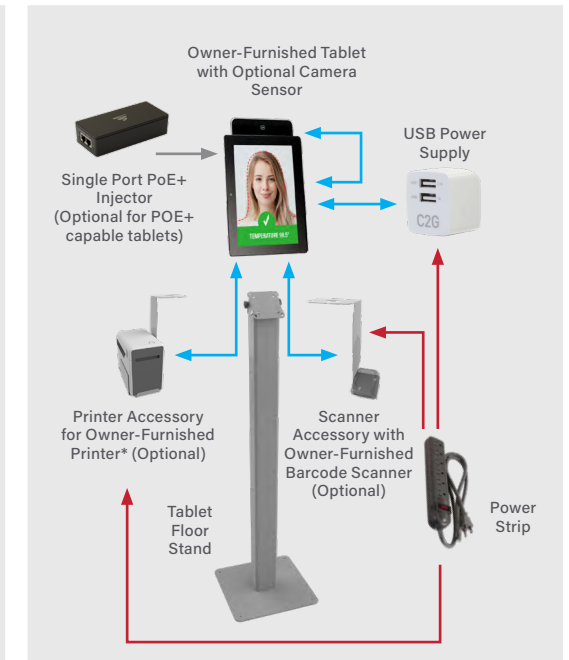
TABLET STAND SOLUTIONS



Tablet Tabletop Stand with Owner-Furnished Tablet



Tablet Floor Stand with Owner-Furnished Tablet for Temperature Sensing



Tablet Floor Stand with Owner-Furnished Tablet for Temperature Sensing + Admission Capabilities



WHY WE LOVE IT

- **Safe space solutions** bring peace of mind to students and staff
- Supports safe building or classroom access points within the campus for temperature sensing and admission

Ideal For: Campus welcome areas, administration offices, classrooms and large lecture hall entrances.

KICK IT UP A NOTCH

REMOTELY MANAGE ALL DEVICES

WHY: Provide uninterrupted uptime and reduce on-site service calls.

MAXIMIZE NETWORK QUALITY

WHY: Extend the reach of your wireless network to other customer areas.

PART NUMBERS

TABLET TABLETOP STAND, VESA:

Chief Tablet Tabletop Stand, VESA HTSVS

TABLET FLOOR STAND, VESA:

Chief Tablet Floor Stand, VESA HFSVS

C2G 2-Port USB Wall Charger - AC to USB Adapter **22322**

C2G 3' USB 2.0 USB-C to USB-A Cable **28870**

C2G 6-Outlet Power Strip with Surge Suppressor **29300**

OPTIONAL ACCESSORIES:

Chief Tablet Floor Stand Printer

Accessory for Brother TD2020 Printer (Sold Separately)

HVPS

Chief Tablet Floor Stand Scanner Accessory for Zebra DS457 Scanner (Sold Separately) **HPSS**

C2G 3' Cat6 Snagless Unshielded (UTP) Ethernet Network Patch Cable **27131**

C2G 3.3' USB 2.0 A/B Cable **28101**

C2G 3' USB 2.0 USB-C to DB9 Serial RS232 Adapter Cable **29470**

Luxul Single Port Gigabit PoE/PoE+ Injector 30W **XPE-2500**

PORTABLE COMMUNICATION ON CAMPUS

MOBILE CART
SINGLE DISPLAY
SOLUTIONS



WHY WE LOVE IT

- It's on wheels! Delivering digital, real-time updates wherever they are needed across your campus

Ideal For: Campus building entrances, mixed use spaces, faculty rental.

KICK IT UP A NOTCH

ADD INTELLIGENT POWER

WHY: Provides remote management for ultimate power control.

BIGGER IS BETTER

WHY: Upgrade to a larger AV Cart to handle bigger displays or more accessory shelves.

PART NUMBERS

Chief Medium Flat Panel Mobile AV Cart
MFCUB

Chief Video Conferencing Camera Shelf
PAC715

Chief Component Storage Panel, Interface
CSMP9X12

Middle Atlantic Forward Small Device Mounting Clamps (Qty 2)
FWD-SIDECLMP-4

Middle Atlantic Slim Power Strip
PD-815SC-20

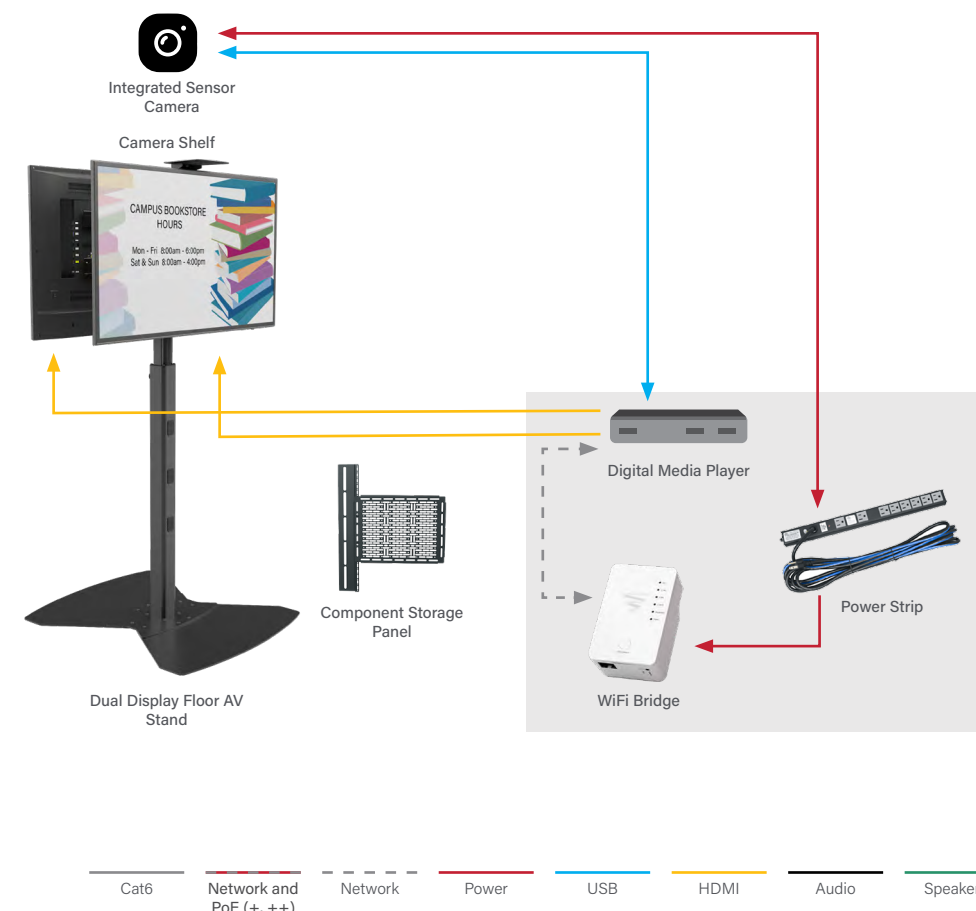
C2G 3' CAT6 Snagless Cable
27131

C2G 6' High Speed HDMI Cable
29677

Luxul AC1200 WiFi Bridge + Range Extender
P40

INFORMATION FLEXIBILITY ON CAMPUS

FLOOR STAND DUAL DISPLAY SOLUTIONS



WHY WE LOVE IT

- Back-to-back design allows for different information on each side of the stand
- Securely manage equipment on a storage panel between the displays
- Provides the look of a permanent solution but can be moved if needed

Ideal For: Building or large lecture hall entrances, retail (campus book store or coffee shop) or the student center.

KICK IT UP A NOTCH

ADD INTELLIGENT POWER

WHY: Provides remote management for ultimate power control.

CHANGE CONTENT QUICKLY

WHY: IP Encoders/Decoders allow for content updates on-the-fly.

ADD REMOTE DEVICES

WHY: Updated HDBaseT systems allow computers and other devices to be hundreds of feet from the displays.

PART NUMBERS

Chief Medium Flat Panel Dual Display Floor AV Stand
MF2UB

Chief Video Conferencing Camera Shelf
PAC715

Chief Component Storage Panel, Interface
CSMP9X12

Middle Atlantic Forward Small Device Mounting Clamps (Qty 2)
FWD-SIDECLMP-4

Middle Atlantic Slim Power Strip
PD-815SC-20

C2G 3' CAT6 Snagless Cable
27131

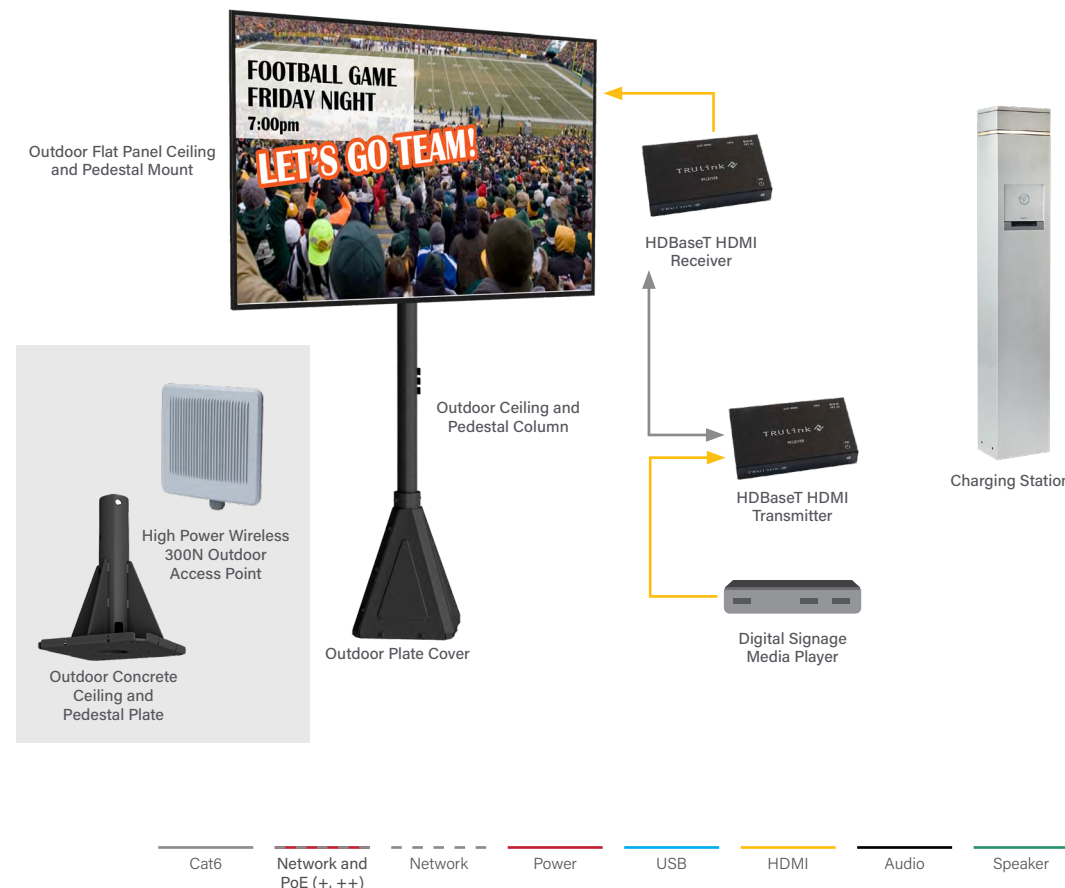
C2G 6' High Speed HDMI Cable (Qty 2)
29677

Luxul AC1200 WiFi Bridge + Range Extender
P40



BRINGING THE INDOORS OUTDOORS

OUTDOOR PEDESTAL SINGLE DISPLAY SOLUTIONS



WHY WE LOVE IT

- Bring the indoors outdoors! Keep your students informed with this robust design that protects the equipment from the elements
 - Nearby charging station encourages longer dwell times at the display
 - Outdoor-rated finish means premium appearance is retained for years
- Ideal For: Providing maps and wayfinding in common outdoor areas, exterior entrances on campus or in sporting areas.**

KICK IT UP A NOTCH

PERFECT VIEWING ANGLE

WHY: Articulating wall mount allows for many screens positions.

CHANGE CONTENT QUICKLY

WHY: IP Encoders/Decoders allow for content updates on-the-fly.

PART NUMBERS

Chief Outdoor Flat Panel Single Ceiling/Pedestal Mount
OLCM1U

Chief 5-6' Outdoor Ceiling and Pedestal Column
ODAC0506B

Chief Outdoor Concrete Ceiling and Pedestal Plate
ODA330B

Chief Outdoor Plate Cover
ODAPCVRB

Wiremold Charging Station with Accent Light, 2-Gang
XCSAL2GRU-BZ

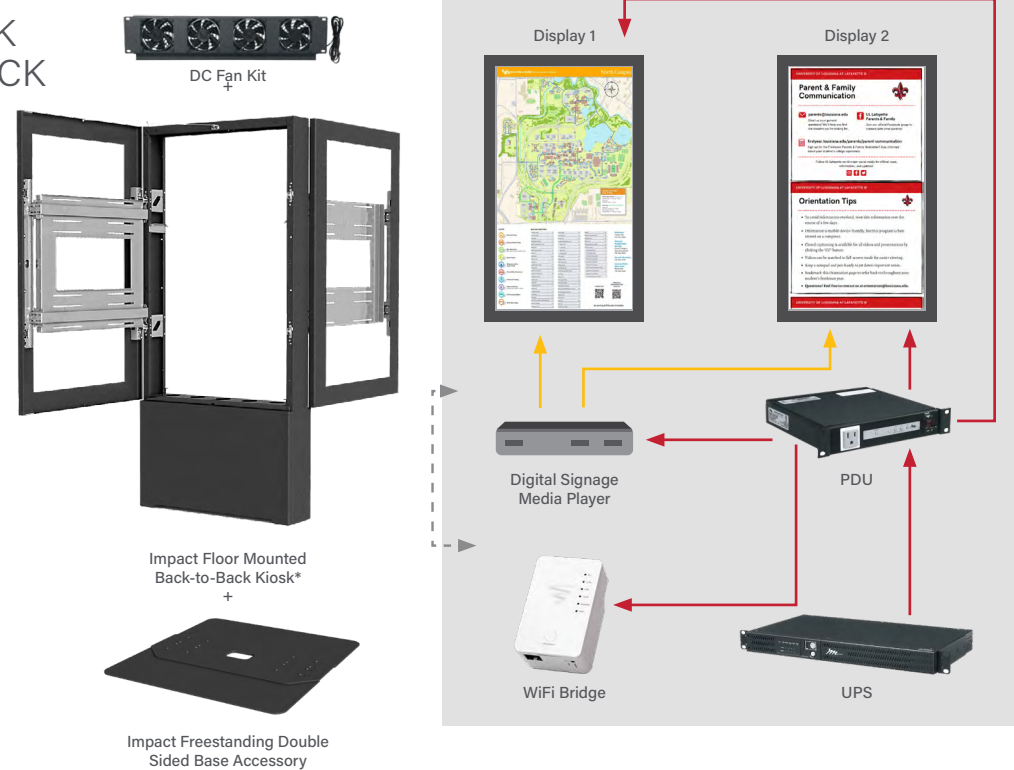
C2G HDMI HDBaseT over Cat Extender Box Transmitter to Box Receiver Kit
C2G30010

C2G 3' High Speed HDMI Cable (Qty 2)
56782

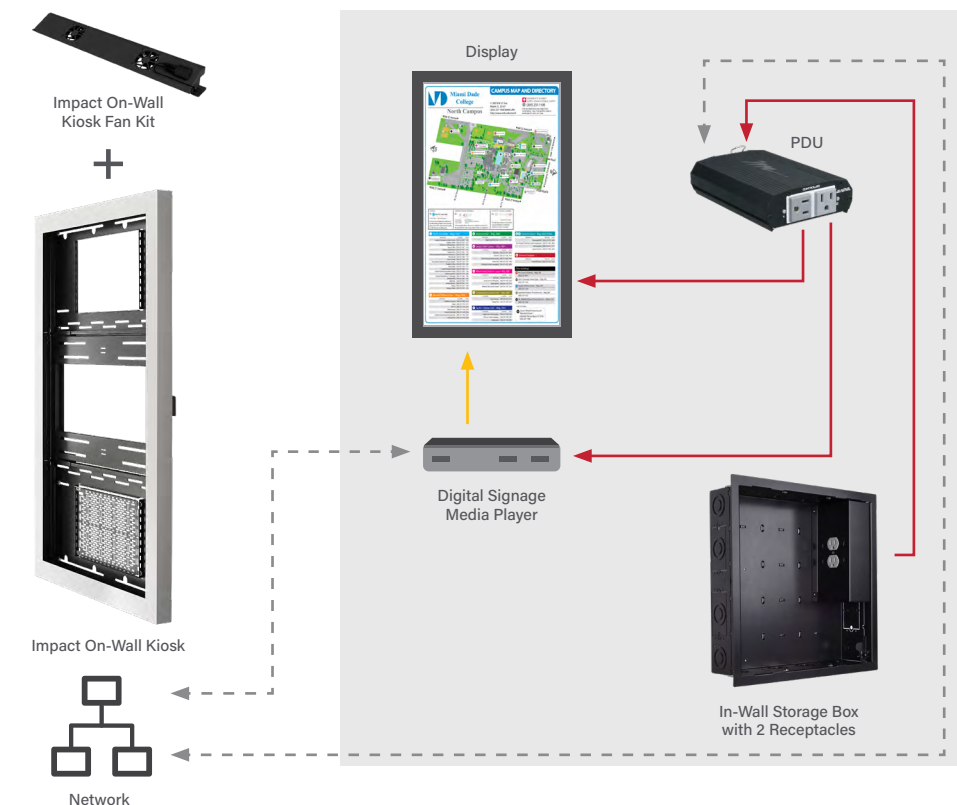
C2G 100' Cat6 Snagless Cable
10322

Luxul High Power AC1200 Dual-Band Outdoor Bridging Access Point
XWO-BAP1

FLOOR KIOSK BACK-TO-BACK DISPLAYS



ON-WALL KIOSK



WHY WE LOVE IT

- Modern design provides easy access to equipment in any environment
- Internal rackmount storage perfect for housing power & network gear
- Intelligent power provides the ability to set and schedule content

Ideal For: Placement in traffic flow areas within large buildings like the student center or administration offices for wayfinding and campus announcements.

KICK IT UP A NOTCH

CHANGE CONTENT QUICKLY

WHY: IP Encoders/Decoders allow for content updates on-the-fly.

ADD REMOTE DEVICES

WHY: Updated HDBaseT systems allow computers and other devices to be hundreds of feet from the displays.

PART NUMBERS

Chief Impact Floor Mounted Back-to-Back Kiosk*
LF55UBP-B2B

Chief Impact Freestanding Double Sided Base Accessory
PACLFB-B2B

Middle Atlantic DC Fan Kit
DCFANKIT-4

Middle Atlantic Select Series PDU with RackLink
RLNK-415R

Middle Atlantic Select Series UPS Backup Power
UPS-S500R

C2G 10' High Speed HDMI Cable (Qty2)
29678

Luxul AC1200 WiFi Bridge + Range Extender
P40

Luxul 12 Port/ 8 PoE+ Front-Facing Rackmount Swtich
XMS-1208P

WHY WE LOVE IT

- Equipment is easily accessed and serviced by a single technician
- Protective glass adds an extra level of security
- Available in portrait or landscape to fit any wall space
- A sleek solution that hides ALL the supporting equipment neatly and conveniently behind the display

Ideal For: Communicating campus events, schedules and restrictions in key areas.

KICK IT UP A NOTCH

ADD THE "WOW" FACTOR

WHY: Larger screens command more attention and viewer engagement.

MANAGE CONTENT WITH EASE

WHY: Upgrade to HDMI over IP to quickly & easily show different (or the same) content on all the displays with centralized network distribution.

PART NUMBERS

Chief Impact On-Wall Kiosk with Protective Glass
LW55UWPG

Chief In-Wall Storage Box
PAC526FBP2

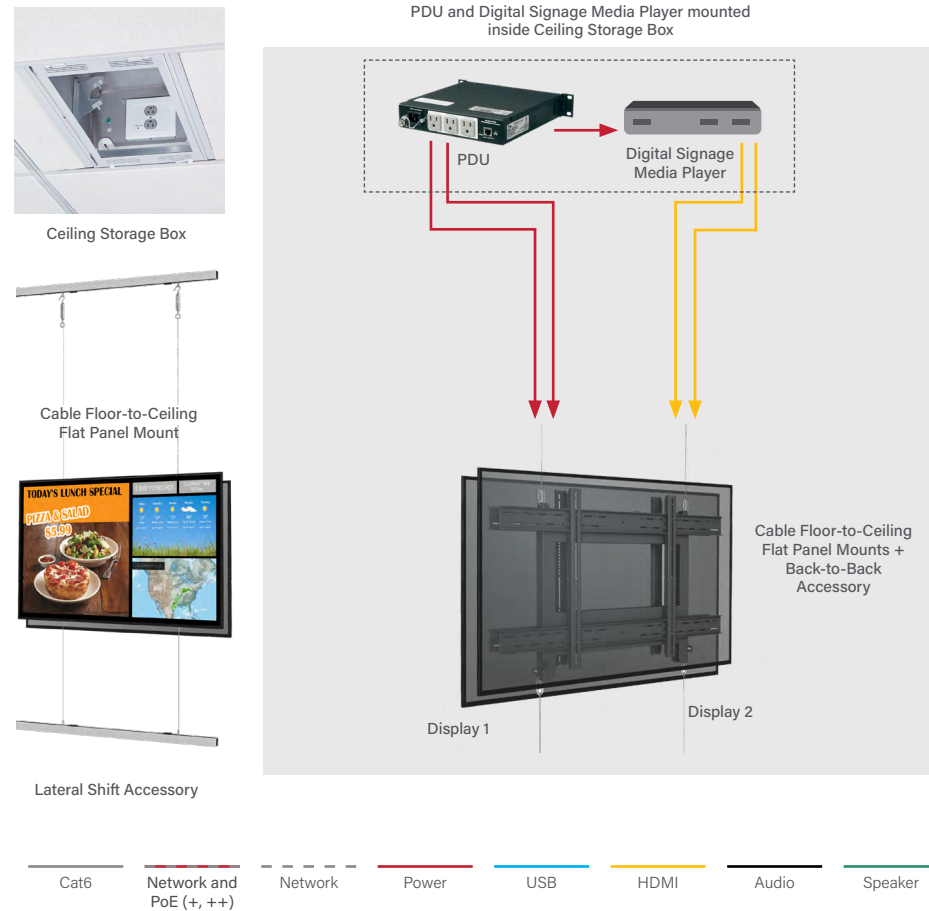
Chief Impact Series On-Wall Kiosk Fan Kit
PACFAN1

Middle Atlantic Select Series PDU with RackLink
RLNK-215

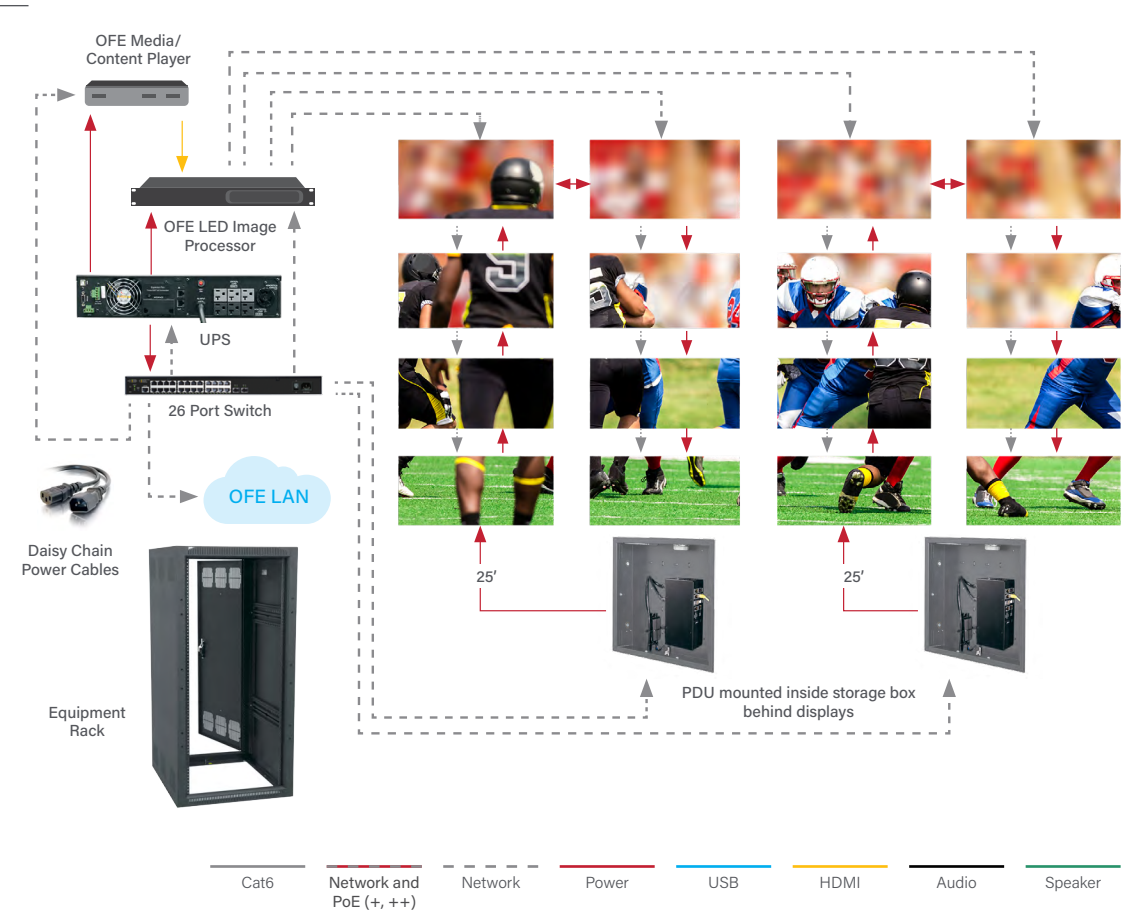
Middle Atlantic Forward Small Device Mounting Clamps, (Qty 2)
FWD-SIDELMP-4

C2G 10' High Speed HDMI Cable
29678

CABLE MOUNT FLOOR-TO-CEILING



dvLED VIDEO WALL



WHY WE LOVE IT

- Displays look like they are floating - talk about 'WOW' factor!
- Get the display right where you want it with features that provide lateral shift
- Conceal all the supporting equipment locally in a ceiling box for convenient servicing and shorter cable runs

Ideal For: Space dividers and window displays for common areas like the student center, food court, coffee shop or bookstore.

KICK IT UP A NOTCH

MANAGE CONTENT WITH EASE

WHY: Upgrade to HDMI over IP to quickly & easily show different (or the same) content on all the displays with centralized network distribution

GO WIRELESS

WHY: Wireless options allow guest network WiFi for surveys and other 2-way interactions.

PART NUMBERS

Chief Cable Floor-to-Ceiling Flat Panel Mount
FCS1U

Chief Back-to-Back Accessory
PACFCB

Chief Lateral Shift Accessory
PACFCL

Chief 2' x 2' Above Suspended Ceiling Storage Box
CMS492

Middle Atlantic Select Series PDU with RackLink
RLNK-415R

C2G 25' High Speed HDMI Cable (Qty 2)
42529

C2G 15' Universal Power Cord (Qty 2)
09482

WHY WE LOVE IT

- Equipment is easily accessed and serviced by a single technician
- Protective glass adds an extra level of security
- Available in portrait or landscape to fit any wall space
- A sleek solution that hides ALL the supporting equipment neatly and conveniently behind the display

Ideal For: Communicating campus events, schedules and restrictions in key areas.

KICK IT UP A NOTCH

ADD THE "WOW" FACTOR

WHY: Chief's TiLED modular designs capture maximum attention

FINISH THE LOOK

WHY: Side covers add that polished finish to the job

PART NUMBERS

Chief TiLED 1x4 LED Mount (Model will vary, Qty 4)

TiLED dvLED Video Wall Mounting System

Chief Proximity In-Wall Storage Box with Flange

PAC526F

Middle Atlantic Intelligent PDU (Qty 2) **RLNK-P420**

Middle Atlantic Equipment Rack and Front Door

BGR-19SA-27, BPF-19A (not shown)

Middle Atlantic Premium Online UPS with IP Card

UPS-OL3000R, UPS-OLIPCARD

Middle Atlantic Forward Rack Accessories (not shown)

Forward Series

Luxul 24 Port Managed Switch **SW-610-24P-R**

C2G 3' HDMI Cable (Qty 2) **50181**

C2G 50' CAT6 Plenum Cable (Qty 6) **15274**

C2G 3' CAT6 Non-Plenum Cable (Qty 17) **27131**

C2G 25' IEC Power Cable (Qty 2) **14719**

C2G 3' IEC Daisy Chain C14 to C13 Power Cord (Qty 14)

10359

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