AV ESSENTIALS
LIGHT UP CURIOSITY WITH ESSENTIAL AUDIO-VISUAL TECHNOLOGIES
Today's next-generation, multi-function AV gear is transforming the learning process, giving every child a front row seat and bringing ease and simplicity to classroom collaboration.

Investing in the latest projectors, large-format displays, audio equipment, and document cameras paves the way for real learning. Document cameras bring science and creativity to life in STEM and makerspace areas, while lamp-free projectors and large-format displays deliver laser-focused presentations to one, some, or many. Add a little audio for even more compelling classroom engagement.

What’s more, AV gear is not only found in every modern classroom, it’s the foundation of every modern classroom. And it’s the foundation of our company. Starting in 1946, Troxell-CDI built its reputation on the leading AV equipment of the era. Today, we’re the leading U.S. supplier of AV gear to K-12 schools and districts.
We’ve grown and evolved through the years, but AV has remained the heart of what we do.

- **1946**: Jean & Jim Troxell Supply Co. was formed.
- **1950s**: 16mm and slide projectors.
- **1960s**: Rotary tray slide and overhead projectors.
- **1970s**: Pong, VCRs, Apple computers, and Atari systems.
- **1980s**: Portable camcorders, IBM PCs, Sony Walkmans, cellphones, laser discs, Apple Macintosh, Nintendos, CDs, document cameras.
- **1983**: Company incorporated as Troxell Communications.
- **1990s**: LCD projectors, interactive whiteboards, DVDs, DLP projectors, large flat panels, Blackberry devices.
- **1997**: Name changed to Troxell Communications, Inc.
- **2000s**: USB flash drives, DVR/Tivo, iPods, Blu-ray, iPhones, STEM.
- **2010s**: STEAM, Chromebooks, interactive projectors, 4K products, virtual reality, artificial intelligence.
- **2017**: Company rebranded as Troxell Solutions to reflect its full-fledged AV and education technology solutions for K-12.
- **2018**: Troxell Solutions emerges as a leader in audio-visual equipment and education technology solutions.
- **2019**: Troxell merges with CDI to become an Education Technology Solutions Powerhouse.
Choosing the right AV equipment for your classrooms, auditoriums, arenas and more can quickly become a confusing mix of technology specs.

Our valued relationships with industry-leading manufacturers, as well as our local Troxell-CDI Account Executives across the nation, stand ready to help you navigate the latest AV technologies with ease. We’ll work closely with you to understand your needs, and then match those needs with leading AV gear that expands opportunities for learning and collaboration. We’ll also ensure your project meets your deadlines and stays within budget.

If customers need help installing, configuring or becoming familiar with AV equipment, they can check out our Services page or ask us to recommend a solution.
Projectors
Today’s next-generation projectors transform the classroom experience from staid and stuck to vital and digital. Easy-to-use and easy-to-connect, these projectors offer a full interactive experience by allowing you to stream video, collaborate with other classrooms—even engage students with another culture or language. DLP, 3LCD and laser projectors also deliver crisp, clear images—regardless of size or space—putting every student in the front row.

BenQ | Casio | Epson | MAXELL | NEC | Panasonic | Sony

Large-Format Displays
Interactive and non-interactive flat panels have become the norm in today’s classrooms, enhancing the learning experience and conserving real-estate once dominated strictly by blackboards and interactive whiteboards. These panels allow you to dynamically interact with your curriculum and students, while keeping digital resources at your fingertips. And they’re as simple to use as a tablet, giving you and your students an instant level of comfort. Image quality stays consistent for clear, concise lessons that put students at the head of the class.

AVer | BenQ | Clear Touch | LG | NEC | Newline | Promethean | Sharp | ViewSonic

Audio
Deliver lessons aurally with the latest in audio technologies or set up a listening center for groups of students. Even amplify presentations and rock the latest student production. Troxell-CDI provides many options for audio, including assisted-listening devices, classroom amplification systems, portable sound systems, and audio players and recorders, as well as individual components and accessories.

Anchor Audio | ELMO | FrontRow | Listen Technologies | Teachlogic

Document Cameras
These classroom workhorses can easily replace overhead projectors, scanners, digital cameras, easels, and other aging tools. Project 2D, 3D and other objects onto the big screen, write comments and notes, capture and save audio and video content, zoom in for a closer look and more. You can even bring science experiments to life, model expectations, solve math problems and manage classrooms through this wireless technology. The sky really isn’t even a limit anymore.

AVer | ELMO | Lumens
Refresh aging AV equipment for more vibrant classroom learning!

If you’re considering using aging document cameras and projectors—now’s the time to refresh with the latest, future-forward technology.

By periodically refreshing equipment, you’ll always have newer AV technologies such as WIFI connectivity features and more options for sharing content—both essential for interactive learning and classroom collaboration.

To narrow your options, consider what you want to accomplish in the classroom and what your infrastructure and budget will support. Consider leasing AV gear, an option that provides a built-in refresh cycle. After a period of time, equipment is replaced with minimal budget impact. Ask us how to get started.
Add peripherals and accessories to enhance, support, and protect your AV solution. Troxell-CDI provides a huge selection of leading AV accessories needed to lay the foundation for your interactive classrooms and amp up the tools needed to engage young minds.

- CABLES
- CARTS
- MOUNTS
- SCREENS
- STANDS
- SWITCHERS
- TRANSMITTERS
- UNIVERSAL REMOTE CONTROLS

We will recommend accessories and peripherals to enhance the classroom AV experience.
We help our customers explore connectivity and control options, so they can share media with the entire class, school, or district.
Manage AV and other school systems from a single dashboard.

Reduce time and cost by simplifying management of your resources, regardless of campus size. Troxell-CDI delivers a range of innovative control systems and solutions to help you integrate disparate multimedia, environmental, and scheduling systems with your existing IT infrastructure for the most efficient management.

Easily distribute prerecorded or live audio/video to any and all displays, automate bells and control public address systems, power down to conserve energy, and alert staff and teachers and students to emergency situations using touch panels and smart devices.

We also offer leading solutions for instant wireless connectivity with advanced presentation capabilities for increased classroom collaboration and simple classroom AV control. Allow students and teachers to collaborate on lessons and share their work by connecting their devices to a projector or large-format display.
Plan and sustain your budget for long-term flexibility.

Leasing your AV equipment allows you to accurately budget future spending by spreading your investment out over a defined period. At the same time, your school and district can deploy the same equipment across campuses, making it easy to manage, track, and support them.

Why lease?

- Build a sustainable refresh model that supports budget initiatives.
- Create a predictable AV equipment budget with little to no upfront costs.
- Confidently meet school board and community technology initiatives.
- Stay ahead of fast-changing technology curricula and pedagogies.
- Install fast to quickly upgrade or refresh classrooms.
- Simplify help desk service and resources to save time and money.
- Standardize AV equipment across campuses for easier management and support.
- Align payments with budget cycles for greater predictability.
- Customize refresh periods to occur during summer to minimize classroom disruption.
- Build in return logistics to complete the lifecycle plan.
Add integration and installation services to get up and running fast! Save time and hassle—and get AV gear up and running fast. From unboxing and assembly to installation and integration, you can be sure that AV equipment is ready to use when you need it.

What are our most popular services?
- Projector/flat panel display mounting
- Classroom amplification systems installation
- Control systems integration (including programming)
- Digital signage integration
- Video wall installation
- Video conferencing assembly and installation
- Calibration/relocation of existing AV systems
- Assembling portable presentation systems

We also provide:
- Loading AV equipment onto carts/stands
- Mounting AV equipment
- Providing localized physical deployment at district or school

Our service options allow Districts to focus on their strategic priorities.
LEARN IT

Give teachers greater confidence using AV technologies.

While next-generation AV equipment provides more interactive learning opportunities for students, it’s only as good as the teacher’s comfort level in using that equipment. Gaining the confidence to use AV gear effectively and integrating it into lesson plans is crucial for learning.

We believe that it’s our mission to ensure that teachers can effectively use their new AV equipment in the classroom, regardless of where it was purchased. That’s why we offer a robust menu of professional development services addressing the AV technologies we offer.

Through our national network of top Professional Development Consultants for the educational market, we can help your teachers become more confident with the equipment and learn how to incorporate it into the curriculum.

Troxell Partner Network
Fix It

Ensure that AV equipment is always available and working for classroom use.

We reduce classroom downtime with locally supported extended warranties for AV equipment. These comprehensive extended warranties can include a 24-48-hour turnaround via a local service center and OEM replacement of broken components—all for a fraction of the cost of a manufacturer warranty.

Tip

Accidents happen. That’s why extended warranties and Accidental Damage and Protection (ADP) plans should always be a consideration for your school or district.
ABOUT TROXELL-CDI

Troxell-CDI is now North America’s leading education technology solutions powerhouse. We provide end-to-end solutions and combine large scale purchasing power with the high-touch consultative approach of a local specialist.
Audio-video technologies are essential to involving students with curricula. As the nation’s leading education technology provider, Troxell-CDI has all the AV essentials—projectors, displays, accessories, and more—needed to bring classrooms, auditoriums, theaters, and more to life.

AV & Accessories

- **LARGE-FORMAT DISPLAYS**
  Deliver classroom lessons clearly and concisely with displays that allow you to dynamically interact with your curriculum and students.

- **PROJECTORS**
  Stream video, collaborate with other classrooms—even interact with another culture—with easy-to-use, easy-to-connect projectors that deliver crisp, clear images.

- **AUDIO**
  Amplify clear cut sound in listening centers and capture the ears of the entire classroom with the latest in audio technologies, including amplification systems and portable sound systems.

- **ACCESSORIES**
  Build out interactive classrooms with a full range of peripherals and accessories, including cables, carts, mounts, controls, screenboards, speakers, amplification systems, document cameras, and more.
**Newline**  
**RS SERIES INTERACTIVE FLAT PANEL - 65", 75", 86" & 98"**

TT-6518RS, TT-7518RS, TT-8618RS, TT-9818RS

Let the versatile 4K UHD interactive display bring more collaboration and interaction. Turn the display into digital whiteboard, share files in one touch, and use your favorite software all with your fingers or the press of a button.

- 4K UHD resolution redefines clarity for your images and presentations
- Connect with a variety of I/O ports, including 3 HDMI ports, a DisplayPort, and a VGA port
- Interact with a non-proprietary pen or with your fingers
- Slimmer frame design allows for easier installation
- Comes in 65", 75", 86", and 98" screen sizes

**LG**  
**COMMERCIAL UHD TV - 75" & 86"**

75UU340C, 86UU340C

LG’s latest Public Display TV, the UU340C supports UHD/4K resolution to provide optimal viewing in diverse business environments. With enhanced management functions includes Wake On LAN, Simple Network Management Protocol, and SuperSign Solution, managers can increase management efficiency while the edge-lit LED display and UHD picture quality improve the digital viewing experience.

- 4K UHD (3840x2160) with HDR10 & HDR Dolby Vision
- Dynamic Contrast Ratio 1,000,000:1
- Analog & Digital TV Tuner (NTSC & ATSC) w/ Stereo Surround Sound
- Welcome screen with a Time Scheduler for school days, week ends, and holiday for auto power
- USB Auto Play back and Public Display Mode

**Hitachi**  
**CLASSROOM/CONFERENCE ROOM LCD PROJECTOR**

LPTW4001, LPAW4001

The LP-TW4001 Interactive Projector & LP-AW4001 provide a large (up to 130” diagonal) vibrant 3LCD image with cost-effective lamp free operation.

- 3LCD WXGA 4200 lumen ultra short throw laser projector
- Up to a 130” diagonal image (100” diagonal interactive image)
- 50,000 hour light source life (Long Life 2 mode)
- Projector Quick Connection App for mobile devices
- 5 year warranty via OneVision Kids Program

**Maxell**  
**CLASSROOM/CONFERENCE ROOM LCD PROJECTOR**

MCEW4051WN

The new Maxell MCEW4051WN provides an ultra-bright 4000 lumen WXGA 3LCD image and long lamp life performance perfect for any class & conference room setting.

- 3LCD WXGA 4000 lumen projector
- HDMI x 2, 16W audio, wireless option
- Network control, maintenance & security
- 20,000:1 contrast ratio
- 5 year lamp warranty via OneVision Kids Program

**Epson**  
**710UI**

Features 4,000 lumens of color/white brightness. Lamp-free laser light source — up to 20,000 hours. Full HD WXGA display; pen- and touch-based interactivity.

- 4,000 lumens of equal color and white brightness
- Breakthrough laser technology provides up to 20,000 hours of virtually maintenance-free operation
- Full HD WXGA display up to 100" diagonal
- Pen and touch-based interactivity — allows up to eight users to draw, share and collaborate at once
- Enhanced wireless display technology — connect up to 50 Chromebook™, Mac®, PC, iOS® and Android™ devices
The new Maxell MPWU5603 provides an ultra-bright 6000 lumen WUXGA 3LCD laser image with up to 20,000 hours of virtually maintenance free operation. Perfect for larger venue and/or classroom installs.

- 3LCD laser WUXGA 6000 lumen projector
- Digital inputs include: HDBT, HDMI x 2, HDMI out
- 1.7 x zoom lens, lens shift
- Network control, maintenance & security
- 5 year warranty available via OneVision Kids Program

The new Maxell MPWU8801B, MPWU8801W provides an ultra-bright 8000 lumen laser WUXGA 3LCD image up to 20,000 hours of virtually maintenance free operation. 7 optional lens make it the perfect projector for larger venue installs. Available in black or white chassis.

- 3LCD laser WUXGA 8000 lumen laser projector
- HDBT, HDMI x 2, HDMI out, display port, SDI
- Powered zoom / focus / lens shift
- Wireless dual band support via optional USBWL5G adaptor
- 5 year warranty via OneVision Kids Program

Maxell Colleague LCD Laser Projector

MPWU5603

Epson PowerLite L610U Wireless WUXGA 3LCD Laser Projector

V11H901020

6,000 lumens color/white brightness; Full HD WUXGA; laser light source of up to 20,000 hours; virtually maintenance-free for the life of the optical engine.

- Bright, vivid color — 6,000 lumens color/white brightness
- Virtually maintenance-free operation — for the life of the optical engine
- Full HD, widescreen images up to 500” — WUXGA resolution (1920 x 1200); Full HD 1080p support
- Breakthrough laser technology — features a laser light source of up to 20,000 hours; plus, instant ON/OFF

Casio Advanced Series LampFree® Projectors provide amazing colors and brightness and can last up to 20,000 hours with no costly lamps or filters to replace.

- 20,000 hour Laser & LED hybrid light source
- 3500 lumens / WXGA resolution
- No lamps to replace / dust resistant design
- 1.32-1.93:1 throw ratio / 1.5X manual zoom lens
- Network (RJ-45) & wireless ready (XJ-F210WN only)

CASIO ADVANCED SERIES LAMPFREE® PROJECTORS

XJ-F211WN, XJ-F101W

Casio Core Series LampFree® Projectors provide a budget-friendly option for great presentations and last up to 20,000 hours with no lamps or filters to replace.

- 20,000 hour Laser & LED hybrid light source
- 3300 or 3500 lumens / XGA and WXGA resolution
- No lamps to replace / dust resistant design
- HDMI & VGA inputs / 1.5X manual zoom lens
- Quick ON (5 seconds to full brightness) / Instant OFF

CASIO ADVANCED SERIES LAMPFREE® PROJECTORS

XJ-V110W, XJ-V10X

The DC193/PC193 is a HD document camera that makes presentations and teaching more interactive.

- Full HD
- 1080p
- 30fps
- USB
- Built-in Microphone
- Five Year Unlimited Replacement Warranty

Lumens DC193 and PC193 Ladibug Document Cameras

DC193/PC193

The DC125 is a HD document camera that makes presenting easier and is connected with only a USB cable.

- Full HD
- 1080p
- 30fps
- USB only
- Five Year Unlimited Replacement Warranty

Lumens DC125 Ladibug Document Camera

DC125

The DC170 is a HD document camera that makes presentations and teaching more interactive.

- Full HD
- 1080p
- 30fps
- Built in Microphone
- Five Year Unlimited Replacement Warranty

Lumens DC170 Ladibug Document Camera

DC170
Peerless-AV | SMARTMOUNT® FLAT PANEL CART

SR598

Designed with the features you want and safety you need, the SmartMount® SR598’s mobility and display height adjustment makes it the ideal solution for education.

- Display can be located anywhere along the column for perfect viewing height (up to 60” at center)
- 5 degrees of negative adjustment keeps even the heaviest of displays level
- Integrated cable management allows for clean and professional installation
- Pre-assembled base provides stability and quick assembly
- UL/CUL certification provides the highest level of safety

Chief | ELECTRIC HEIGHT ADJUST CART

XPD1U

- Supports large displays up to 310 lbs (140.6 kg) with a mounting pattern range of 200 x 200 - 860 x 510 mm
- Provides 26” (660 mm) of smooth, electric vertical lift via included control pad; additional accessories sold separately for controlling via remote or phone app
- Anti-collision sensor immediately halts, then reverses motion of display upon encountering an obstruction to avoid pinching fingers or damaging technology
- Integrated storage space and cable management with strain relief

Premier Mounts | PDS-PLUS

PDS-PLUS

The PDS-PLUS is a low-profile universal projector mount with a slotted mounting base and six interchangeable legs to reach short and wide mounting points.

- OSHPD approved projector mounting solution
- Weighs under 5 lbs for easy overhead installation
- Available in black or white colored finish
- Pairs easily with 1.5” NPT pipe or structural surfaces
- Supports projectors weighing up to 75 lbs./34 kg

BalanceBox | BALANCEBOX® 400 MOBILE STAND

481A47002

Mobile stand with lockable laptop tray/box. Requires BalanceBox® 400 mount and BalanceBox® 400 Flatscreen/VESA Interface #481A21.

- Mobile stand for interactive flat panels up to 209 lbs, 86”
- 4 heavy duty casters: 100mm/ 4” nylon wheels, non-marking PU, 2 w/brake
- Installation time less than 20 minutes
- 3 year warranty
- UL recognized & CE (UL-EN-ISO 60950)
Chief OVER-WHITEBOARD INTERACTIVE DISPLAY MOUNT

- Easily install interactive flat panels over pre-existing chalkboards or whiteboards without causing damage
- Rugged design for a stable interactive experience across the display’s touch surface
- Integrated macro- and micro-height adjustment and lateral shift for perfect positioning
- Heavy-duty weight capacity of 310 lbs (140.6 kg)
- Mounts to concrete block, brick or wood substrates

Peerless-AV PRG PRECISION GEAR PROJECTOR MOUNT

- With Peerless-AV’s PRG Precision Gear Projector Mount, just set it and forget it. No more adjustment screws. No more micro adjustments. No more hassles.
  - Two adjustment knobs control tilt and roll image alignment to hold image position
  - Horizontal wrench access slots make flush mounting installations fast and easy
  - Integrated cable management allows for clean and professional installation
  - Spider® Universal Adaptor Plate extends up to 17.63" (448 mm) for universal fit
  - UL/CUL certification provides the highest level of safety

Frontrow JUNO

- All-in-one classroom sound with amazing digital sound quality, time-saving lesson capture, and future connectivity.
  - Sets up in minutes
  - Advanced line array fills your classroom with multi-layered stereo sound
  - Digital feedback suppression
  - Voice command (extendable to displays and other devices)
  - Ready for hands-free lesson capture, network connection, intercom, and more

Frontrow TOGO

- Take audio anywhere with FrontRow ToGo. Completely portable line array offers even coverage of classrooms, cafeterias, bus lines, assemblies, and outdoor events.
  - Onboard rechargeable battery lasts hours
  - Input jack for music; output jack for recording or assistive listening
  - Powerful line array provides more even sound coverage than single speakers
  - Use two mics simultaneously
  - Choose from 16 channels

Copernicus IROVER2 FOR INTERACTIVE FLAT PANELS

- A flat panel purchase is a big investment. Be sure to protect your investment with a cart that provides flexibility and durability.
  - Electric lift function to adjust the flat panel height with a 17" range
  - Large ergonomic handles to aid mobility and protect the screen from bumps in transport
  - 5” swivel casters to aid maneuverability (2 locking)
  - Supports 55”-80” flat panels with a maximum weight of 200lbs
  - Laptop tray fits securely onto either arm or the back and can be stored away underneath the flat panel. Tray is suitable for all standard laptop sizes up to 17".

Out with the Old, In with the New!

If you’re using aging document cameras and projectors—now’s the time to refresh them with the latest, future-forward technology!

- MUST-HAVE FOR INTERACTIVE LEARNING
- MORE OPTIONS FOR SHARING CONTENT
- WIFI CONNECTIVITY FEATURES
K-12 EDUCATION TECHNOLOGY SOLUTIONS

WHY TROXELL-CDI?

🚀 Education technology to help stretch the curious mind.

🛍️ A one-stop shop for all your education technology needs.

🏆 The leader in complete technology solutions for the K-12 market.

🤝 Leading technology providers through our long-standing relationships.

✅ National/regional/local contracts and an easy purchasing process.

Educate yourself—become an AV expert visit: TroxellSolutions.com/AV-Essentials