



## 2016 Product Overview



<b>16</b>	DigitalMedia™
<b>47</b>	FlipTops™ and Crestron Connect It™
<b>50</b>	Capture & Collaboration
<b>56</b>	3-Series® Control Systems
<b>66</b>	Networking Solutions
<b>68</b>	Monitoring & Management
<b>77</b>	Home Automation & Control
<b>81</b>	Wireless Door Locks
<b>84</b>	Lighting & Energy Management
<b>109</b>	Shading Solutions
<b>114</b>	Keypads
<b>121</b>	Touch Screens & Remotes
<b>136</b>	Control Apps
<b>140</b>	Speakers
<b>149</b>	Audio Solutions
<b>168</b>	Crestron Studio™







For more than 40 years Crestron has been the world's leading manufacturer of advanced control, automation, and unified communications systems. Our complete solutions integrate audio, video, lighting, and environmental systems. Crestron streamlines technology, improving the quality of life for people in corporate conference rooms, hotels, classrooms, auditoriums, and in their homes. Even better, our solutions leverage technology you're already using.

Today's commercial buildings, schools, and residences contain more technology than ever before. Most companies build systems by interfacing different products and technologies from various vendors. This creates a range of potential problems. Every room works differently, equipment can sit broken for days or weeks before the support staff finds out, and people often have the perception that "nothing works." Our full line of products is engineered from the ground up to work together seamlessly. Crestron offers repeatable systems designed on a validated architecture that provides consistent performance, proactive serviceability, and enterprise-grade uptime.

With the broadest line of hardware and software, Crestron's award-winning control and automation solutions are installed in the most prestigious Fortune 500® companies, universities, and government facilities in the world. You'll also find Crestron systems in the world's finest homes and luxury yachts.

Crestron has more than 90 fully-staffed offices that provide sales, technical, and training support across the globe. With 24 x 7 x 365 online support, live telephone support, and global on-site field support, our three-tier coverage provides expert help for every situation. Locally, regionally, and internationally, easy access to Crestron engineers and pre- and post-sales specialists ensures rapid issue resolution anywhere in the world. Plus, take advantage of our in-house system designers to help you plan even the most challenging projects. Guarantee the highest-performing implementations and eliminate compatibility issues before they arise.



## **Transforming great ideas into great customer experiences**

At Crestron, we don't just build products; we build automation and control solutions for buildings and homes. All of our products are designed, built, and guaranteed to work together as a complete system, rather than a collection of unrelated parts housed in technology silos. Our solutions lower costs and boost efficiency. They provide greater comfort, convenience, and security.

## **Building the technology that integrates technology**

The amount of technology in buildings and homes is rapidly growing and changing. The most significant change is that everything is now on the network: audio, video, voice, data, lighting, security, digital signage, Building Management Systems (BMS), shades, and heating & cooling systems. The design and implementation of these technologies, however, is typically done independently. As a result, each one operates on a separate platform, adding many layers of complexity and inefficiency.

Crestron builds the technology that integrates all of the disparate systems and devices in buildings and homes on a single open platform so they can communicate and work together intelligently.



We provide the only solution that enables you to monitor, manage and control everything from one platform, anywhere, anytime, using touch screens, remotes, and smart devices.

## **Improving quality of life at home, at work, at school, at play**

People wonder, “Isn’t technology supposed to make my life simpler, instead of more complicated?”

Our award-winning solutions simplify and enhance the lives of millions of people every day, including world leaders, CEOs, teachers, office workers, and homeowners. Our solutions are integral to the daily operations of nearly every Fortune 500® company, hundreds of universities, hotels, healthcare facilities, and government agencies.



## **100% Crestron = 100% Confidence**

You want to standardize on a single validated platform that's scalable and repeatable, so you can easily deploy AV systems for every room type, size, and application throughout your organization. You want an enterprise-class AV solution that supports the latest IT standards so you can manage it on the network. And you want it to provide a consistent user experience, and ensure that everything works flawlessly. Crestron Certified Designs meet all these requirements.

We stand behind and validate our designs, so you know it will work as intended. Crestron Certified Designs provide the maximum uptime, are easy to upgrade, expand, and manage, and are backed by our global True Blue Support team.



## Certified Design

There's even more value built into Crestron Certified Designs: an extended warranty; enterprise management software; 24/7 Crestron True Blue Support, provided by more than 90 offices around the globe; and access to the most robust training curriculum and certification program in the industry, at the Crestron Technical Institute.

## **Complete end-to-end validated system designs**

Crestron engineers design complete solutions to ensure premium performance and maximum uptime. Everything integrates seamlessly to deliver scalable, repeatable solutions



### **Control systems**

Crestron control systems are the core of the intelligent building. They unify all technology and devices in the building on one enterprise-grade device.



### **Network appliances**

Our switches connect Ethernet devices to our control systems, which connect to the managed network using just a single IP address.



### **Digital audio**

We offer a complete line of digital HD audio distribution systems, high-powered IP-addressable and audiophile grade amplifiers, 7.3 HD Surround Sound Processors, and high-performance speakers.



### **Digital video**

The Crestron heritage of high-performance video products continues in our digital video presentation and distribution systems, multi-window video processors, streaming video and videoconferencing solutions, video scalers, and home theater systems.



### **User interfaces**

Crestron solutions can be conveniently controlled from our wide selection of stylish touch screens and remotes, as well as from Mac® and Windows® based laptops and all Apple® and Android™ smart devices. The user experience is consistent and intuitive across all devices.



## **Enterprise management software**

From a single dashboard, Crestron Fusion® enables organizations to monitor and manage AV resources, room scheduling, environmental systems, and energy usage for one building or an entire global enterprise. Crestron Fusion® unifies all technology to increase the efficiency and productivity of knowledge workers, and boost energy savings.



## **Unified communications**

Optimize the way you communicate and collaborate with others, so you can achieve organizational goals. With Crestron, you can leverage existing infrastructure, and start or join meetings with just a single push of a button.



## **Infrastructure**

The importance of cables, the conduit through which signals are transported, is often overlooked. Crestron has engineered its own line of structured wire, AV cables, and multimode and single mode fiber. This ensures optimal performance and reliability, even in changing environmental conditions, as well as a path for future upgrades.



## **Automation sensors**

Crestron temperature and occupancy sensors add another layer of automation and energy savings, making buildings as intelligent, comfortable, and efficient as possible. Our photosensor sensors are designed for daylight harvesting applications, controlling room lighting based on the presence of natural daylight.



## **HVAC**

Our wired and wireless programmable thermostats communicate with HVAC systems, lighting, and shades to deliver holistic environmental control.



## **Lighting & shading systems**

Crestron lighting and shading systems provide precise control of artificial and natural light to create aesthetically pleasing and comfortable environments, as well as optimize energy savings through daylight harvesting and automated demand response.

## **Growth through innovation: Industry firsts**

You don't earn countless product innovation awards without great ideas, great people, great resources, and key partnerships. Our offices and research labs are home to hundreds of engineers and visionaries with a passion and relentless commitment to push the boundaries of what's possible.

We've cemented and extended our leadership position by forging deep, long-standing partnerships with the world's technology giants, such as Apple®, Cisco Systems®, Microsoft®, Intel®, and Texas Instruments®, working together to conquer technology challenges.

---

### **1991**

1<sup>st</sup> graphical programming language and tool set (SIMPL)

---

### **1993**

1<sup>st</sup> color, video, computer graphics touch screen (CT-3500)

---

### **1995**

1<sup>st</sup> RF wireless control system (SmarTouch™)

---

### **1998**

1<sup>st</sup> IP-based control system (CNMSX-AV)

---

### **1999**

1<sup>st</sup> Internet-based control technology (e-Control®)

---

### **2001**

1<sup>st</sup> modular touch screen control system (Isys®)

1<sup>st</sup> digital video/automation processor (CNX-DVP4)





---

## 2003

1<sup>st</sup> touch screen emulation technology for PDA, Web tablets, and computers (e-Control 2)

---

## 2010

1<sup>st</sup> single-wire digital/analog AV transport technology over CAT5e or fiber (DigitalMedia™)

---

## 2012

1<sup>st</sup> control and management platform natively supporting AV, SNMP, and BACnet/IP (3-Series Control System®)

---

## 2013

1<sup>st</sup> distribution system to support wireless, 4K, and streaming (DigitalMedia)

---

## 2014

1<sup>st</sup> end-to-end 4K distribution system and certification program (DigitalMedia and Crestron 4K Certification)

---

## 2015

1<sup>st</sup> 4K/60 distribution and scaling (DM-RMC-4K-SCALER-C)

## Global presence, local support

Crestron has offices in every major market and country around the globe. Each is fully staffed to provide sales, technical support, and training, ensuring an identical customer experience wherever you are in the world.



AUSTRALIA · AUSTRIA · BELGIUM · BRAZIL · CANADA · CHILE · CHINA  
COLOMBIA · FINLAND · FRANCE · GERMANY · INDIA · INDONESIA  
ISRAEL · ITALY · JAPAN · KOREA · MALAYSIA · MEXICO · MOROCCO



NETHERLANDS · NEW ZEALAND · NORWAY · RUSSIA · SINGAPORE

SOUTH AFRICA · SPAIN · SWEDEN · SWITZERLAND · TAIWAN · THAILAND

TURKEY · UNITED ARAB EMIRATES · UNITED KINGDOM · UNITED STATES

# DM®

## Complete HD AV Signal Distribution on One Unified Platform

From huddle rooms and conference rooms to classrooms, lobbies, and homes, you want to **display the latest high-definition and HDCP 2.2 compliant 4K content** in its full glory. You want to **integrate digital and analog AV signals** together with **streaming, all on one platform**. And you want it to work flawlessly every time. That's what you get with DM.

**4K**

**H.264**  
STREAMING

**HDCP 2.2**



Only DM can do it all

- › Scalable from simple huddle room to large commercial facilities
- › 4K/60 scaling
- › SD, 2K, 4K, and streaming on the same matrix
- › HDCP 2.2 compatible
- › The only end-to-end HDBaseT® certified system
- › Streaming video in and out
- › The only complete 4K certified distribution system
- › Extract audio from HDMI® signal
- › Simultaneous multi-channel and 2-channel digital audio distribution from the same source



## Testing 4K products, so you don't have to

We didn't stop at just building the best 4K products. The Crestron 4K Certification ensures that sources and displays meet the demands of a 4K distributed system. Crestron engineers in the DigitalMedia Lab rigorously test 4K products to ensure they work in a matrix-switched environment. Only those that do are awarded the Crestron 4K Certified logo. Now, for integrators and end users, finding a database of 4K products they can trust is as simple as visiting [crestron.com/dm](https://crestron.com/dm).



## 10 Must-haves for Any AV Distribution System

- ❶ Integrated streaming I/O
- ❷ Wireless input for cross-platform BYOD
- ❸ 4K/60 inputs including HDCP 2.2 support
- ❹ Preview sources on a touch screen
- ❺ Video wall capability built in
- ❻ Scale outputs to and from 4K/60
- ❼ HDBaseT® certification — connect directly to displays
- ❽ Wireless streaming output for BYOD
- ❾ Distribute multi-channel and stereo audio simultaneously
- ❿ Leverage the cloud to stream worldwide

DM Streaming capabilities enable **high-definition signal distribution over existing IP infrastructure**, removing any distance limitations and allowing for the routing of signals wherever new wires can't be run. Ideal applications for DM streaming include digital signage, mobile device connectivity, and signal routing between buildings or global offices. With so many practical applications, **no DM system is complete without streaming.**

## DigitalMedia™ Matrix Switchers — Totally Configurable, Totally Scalable, Total Integration!

Every AV system is different. Using Crestron DM® switchers, **you configure the switcher to meet your requirements** — not the other way around. Fully scalable and modular, Crestron DM switchers can accommodate **any combination of digital and analog sources**, with the ability to **combine copper, fiber, and streaming technologies on a single chassis**.

**Routing AV signals is only the beginning.** DM matrix switchers include an extensive set of enhancements to address every design challenge you're likely to encounter — **eliminating the need for thousands of dollars worth of extra interfaces and converters**. Rather than treating audio as an afterthought, DM switchers include audio embedding, de-embedding at the inputs and outputs, breakaway switching, and DSP down-mixing to enable **simultaneous surround sound and stereo audio from a single source**. Additionally, every input card — even analog — includes a dedicated HDMI® output to pass the input signal through to a local AV processor or another switcher.

**4K Video** capability ensures end-to-end support for 4K Ultra HD and DCI video displays and sources, as well as the latest generation of ultra high-resolution computers and monitors.

**H.264 Streaming** enables distribution of high-definition video over Ethernet and the Internet to eliminate all distance limitations.

**Private Network Mode** dramatically simplifies deployment on a corporate or university LAN, effectively hiding all the DM devices from the outside world and requiring just a single IP address for the complete DM system.

**SNMP Management** through a 2-Series or 3-Series Control System® offers major integration potential, affording customizable control of the complete DM network through third-party IT management software.

**Improved EDID management** provides fool-proof configuration of all your varied source components, displays, and processors.

## 4K/60 HDMI Switchers

Well priced for budget sensitive projects, these switchers support the full gamut of today's high-resolution signals, up to 4K/60, and provide advanced DigitalMedia EDID management for optimal display.



### HD-MD4X1-4K-E HD-MD4X2-4K-E\* HD-MD6X2-4K-E\* 4K/60 HDMI Switchers



- › Simplified setup through the front panel OLED display or Web browser
- › Comprehensive built-in EDID configuration tools
- › Handles Dolby® TrueHD, DTS HD®, and uncompressed 7.1 linear PCM audio
- › \*True matrix switching



### HD-MD8X1-4K 4K Scaling Auto-Switcher

- › 8x1 4K multimedia presentation switcher
- › Support for today's high-resolution laptops up to 4096x2160
- › Provides the core of a complete Crestron Connect It solution
- › Four HDMI® and four VGA/analog video inputs
- › Simple setup powered by new Crestron .AV Framework
- › Integrates with external control system
- › Four stereo analog audio inputs; balanced stereo audio output
- › HDMI outputs
- › Built-in 4K scaler
- › Fully automatic switching
- › Display control via IR, RS-232, CEC, or Ethernet
- › Built-in universal power supply — no wall-warts
- › 1U rackmount or under table mount



## Low-Cost Auto-Switcher & Extender

The number of huddle rooms and small meeting rooms is on the rise. This has created the need for a simple, complete, low-cost multimedia presentation solution, which is precisely what you get with the HD-MD-400-C-E. It packs CATx single extension, a scaler for optimal image display, automatic switching for HD resolutions up to 1080p and WUXGA, display control, and Ethernet connectivity, all in a pair of compact, easy to deploy devices.



### HD-MD-400-C-E

#### HD Scaling Auto-Switcher & Extender

- › 3x1+1 high-definition digital AV switcher, scaler, and extender
- › Easy Web browser setup — no control system, control panel, or programming required!
- › Includes a compact transmitter and receiver
- › Transmitter includes two HDMI®, one VGA, and one analog audio inputs
- › Receiver includes one HDMI input, one HDMI output, and one analog audio output
- › Automatically scales input signals to match the native resolution of the room display



## **HD-SCALER-HD-E**

High-Definition Video Scaler,  
HDMI® In, HDMI Out

- › Automatically scales input signal to match the native resolution of the display
- › Handles DVI, DisplayPort, and HDMI® signals with Deep Color and HDCP
- › Includes stereo analog and digital multi-channel audio input and output
- › Allows embedding of analog stereo audio to HDMI
- › Allows extraction of digital stereo audio to analog
- › Affords easy setup via on-screen display
- › Compact, low-profile surface mount design



## **HD-SCALER-VGA-E**

High-Definition Video Scaler,  
VGA in, HDMI® Out

- › Converts analog RGB, VGA, and component video signals to HDMI® or DVI
- › Automatically scales the input signal to match the native resolution of the display
- › Includes stereo analog audio input and output
- › Allows embedding of analog stereo audio to HDMI
- › Affords easy setup via on-screen display
- › Compact, low-profile surface mount design

## Simple, High-Performance 4K HDMI® Signal Splitting

Even with a signal distribution solution as sophisticated as DigitalMedia™, **sometimes you just need to split a single HDMI® signal** to feed multiple displays, switchers, AV receivers, and other devices. Crestron 4K HDMI Express distribution amplifiers provide **straight-forward and reliable signal splitting of HDMI signals** with support for resolutions up to 4K.



### HD-DA-4K-E Series 4K HDMI® Express Distribution Amplifiers

- › Distributes one HDMI source to multiple outputs
- › Models available with two, four, or eight outputs
- › Handles video resolutions up to 4K
- › Includes input and output sync indicators
- › No programming or control system required
- › Thin profile – just 3/4 inch high (23mm)
- › Surface, rack shelf, or single rack rail mountable

## HDMI® Problem Solver

Need to feed two displays from one HDMI source? Or, split an HDMI signal between a display and a surround sound processor? Need to break out the HDMI audio signal and convert it to S/PDIF or analog? Or, merge separate digital audio and video sources into one HDMI stream? Not a problem...just use the HD-DA-2.



## HD-DA-2 1-to-2 HDMI® Distribution Amplifier & Audio Converter

- › One in, two out HDMI signal splitter
- › Extracts analog and S/PDIF audio from HDMI
- › Embeds S/PDIF audio onto HDMI
- › Merges DVI and S/PDIF into one HDMI signal
- › Supports HD 1080p w/Deep Color, 3D, and 7.1 HD audio
- › Allows configuration of audio EDID and HDCP key handling
- › No programming or control system required

## HDMI® over HDBaseT® Extenders

When you just need to get an HDMI signal from one end of the building to the other, Crestron HDMI over HDBaseT® Extenders provide **a professional-grade solution that's incredibly simple and ultra-reliable.**



### HD-EXT3-C

#### HDMI® over HDBaseT® Extender

- › Extends uncompressed digital AV and control signals up to 330 ft (100 m) over a single CAT5e
- › HDBaseT® certified
- › Supports HDCP 2.2
- › Supports HDMI with Deep Color, 3D, and 4K
- › Supports 7.1 channel HD lossless audio
- › Compatible with DVI and DisplayPort Multimode
- › Includes universal IR repeater
- › Extends bidirectional RS-232



### HD-EXT4-C

#### HDMI® over HDBaseT® Extender

- › Adds stereo analog audio extension via a second cable
- › Omits IR and RS-232 capability

## HDMI® over Fiber Extenders

HDMI over Fiber technology by Crestron affords **reliable, high-performance digital AV signal extension over long distances**, handling high-definition digital video and audio, analog audio, Ethernet, HID, and control signals all over one fiber strand.



### HD-TX1-F & HD-RX1-F

#### HDMI® over Fiber Transmitter and Receiver

- › Extends uncompressed digital AV and control signals 1000 ft (300 m) over simplex multimode fiber
- › Supports HDMI with Deep Color, DVI, and DisplayPort Multimode
- › Supports 7.1 channel lossless audio up to 48 kHz
- › Handles resolutions up to 1920x1200 and 1080p60
- › Passes CEC, EDID and HDCP
- › Includes universal IR repeater
- › Extends bidirectional RS-232
- › Provides electrical isolation for outdoor runs



### HD-TX3-F & HD-RX3-F

#### HDMI® over Fiber Transmitter and Receiver

All the features of the HD-TX1-F and HD-RX1-F plus:

- › Adds Ethernet, USB HID, and analog audio signal extension

## **A Fully-Integrated Multimedia Presentation Solution with No Equal**

Whether it's for a new installation or replacement of an older analog system switcher, all-new DMPS3 Series systems provide a future-proof solution.

DMPS DigitalMedia™ Presentation Systems integrate high-definition digital and analog AV signal distribution with built-in automatic mic mixing, multimedia matrix switching, speaker amplification, 4K scaler and DSP, plus DM 8G+® connectivity and a fully-featured, IP-based Crestron 3-Series Control System®. The result is the world's most advanced, best-selling all-in-one digital presentation solution at a fraction of the cost of less robust alternatives.

Engineered to meet the functional and budgetary requirements of any room, DMPS3 Series provides flexible signal routing and high-performance signal processing without the need for separate components. The built-in control system enables complete, customizable control of every AV device, including video capture systems, plus room lighting, window shades, and projection screens — all without requiring a separate control processor.

DMPS3 Series delivers bit-for-bit, zero latency HD video switching and display, at a fraction of the cost of less robust alternatives. It's fully HDBaseT® certified and supports SNMP, CEC device control, and EDID resolution management.

High-speed Ethernet connectivity enables integration with IP-controllable devices and allows DMPS3 Series to be part of a larger managed control network. DMPS3 Series provides secure, reliable interconnectivity with IP-enabled touch screens, computers, mobile devices, video displays, media servers, security systems, lighting, HVAC, and other equipment — whether on the premises or across the globe.

DMPS3 Series systems are ready to go right out of the box. Simply connect your cables, select your sources and displays, and the system is up and running without custom programming. Even better, the system reports to Crestron Fusion® software right out of the box for centralized monitoring and management.

## **DMPS3 Series** **DigitalMedia™ Presentation Systems**

- › High-Definition multimedia system switcher, mic mixer, audio DSP, amplifier, and control system
- › Integrated DigitalMedia™ switcher
- › HDBaseT® certified
- › Advanced HDCP management
- › Handles HDMI®, DVI, DisplayPort Multimode, and S/PDIF digital sources
- › Handles RGB, composite, S-Video, component, and stereo audio analog sources
- › Auto-detecting, auto-switching inputs for all types of video and audio sources
- › No programming configuration
- › 4K multimedia switching (DMPS3-4K-50, DMPS3-4K-100-C, and DMPS3-4K-150-C only)
- › Built-in SIP/POTS audio conferencing interface (DMPS3-300-C-AEC only)
- › Versatile audio signal mixing and routing to multiple outputs
- › Audio-follow-video or breakaway switching for all inputs
- › HDMI audio signal extraction and embedding
- › Stereo analog outputs with independent DSP
- › Multi-channel PCM, Dolby®, and DTS® audio signals can be routed to the HDMI and DM outputs
- › DigitalMedia 8G+ connectivity affords single-wire CAT5e interface for remote sources and displays
- › Furnishes Power over DM or HDBaseT
- › QuickSwitch HD® technology manages HDCP keys for fast, reliable switching
- › Auto-Locking® technology achieves rapid switching between disparate sources
- › Automatic AV signal format management via EDID
- › Built-in 4K scaler can transmit any resolution source to any resolution display, up to 4096x2160 (DMPS3-4K-50, DMPS3-4K-100-C, and DMPS3-4K-150-C only)
- › External scaler options available
- › Integrated Ethernet switch provides a single-point LAN connection
- › DMPS3 requires only one IP address in Private Network Mode
- › Supports Crestron touch screens, keypads, and wireless remotes
- › Supports Crestron mobile control apps and XPanel
- › Supports Crestron Fusion® and SNMP remote management
- › Easy setup and diagnostics via front panel or software
- › Internal universal power supply



## No Programming Required!

Thanks to new Crestron .AV Framework™ technology, delivering a fully-functional presentation system is easy, fast, and affordable using any DMPS3 Series model. With built-in auto-configuration software, complete system setup can be performed in minutes without the need for custom programming.

**DM** **4K** **HDMI** **eHDBT**



### DMPS3-4K-50 3-Series® DigitalMedia™ Presentation System 50

- › No programming setup
- › Auto-switching
- › 8x1 switcher: Four 4K HDMI and four VGA/  
Audio inputs to one 4K HDMI output
- › Balanced stereo audio out
- › 4K scaler
- › 3-Series Control System
- › IR, RS-232, CEC, and Ethernet display control
- › Blu-Ray and cable box control built-in
- › Calendar integration (display room  
calendar on touch screen)

**DM** **4K** **HDMI** **eHDBT**



### DMPS3-4K-100-C 3-Series® DigitalMedia™ Presentation System 100

- › No programming setup
- › Auto-switching

- › 8x1 switcher: Four 4K HDMI and four VGA/Audio inputs to one 4K HDMI output
- › Balanced stereo audio out
- › 4K scaler
- › 3-Series Control System
- › IR, RS-232, CEC, and Ethernet display control
- › Blu-Ray and cable box control built-in
- › Calendar integration (display room calendar on touch screen)
- › DM (HDBaseT) output and microphone input

**DM** **4K** **HDMI** **HDBaseT**



## **DMPS3-4K-150-C** **3-Series® DigitalMedia™** **Presentation System 150**

- › 10x14K multimedia presentation switcher
- › Support for today's high-resolution laptops — anything up to 4096x2160
- › Simple setup powered by new Crestron .AV Framework
- › Fully customizable
- › Provides the core of a complete Crestron Connect It® solution
- › Four HDMI® and four VGA/analog video inputs
- › Four stereo analog audio inputs
- › Two DM or HDBaseT® inputs
- › HDMI and DM or HDBaseT outputs
- › Built-in 4K scaler
- › Balanced stereo audio output
- › Fully automatic switching
- › Single microphone input for voice-lift
- › Display control via IR, RS-232, CEC, or Ethernet
- › Fully-programmable 3-Series Control System
- › Built-in universal power supply — no wall-warts
- › 1U rackmount or under table mount
- › Plus two DM (HDBaseT) inputs



## DMPS3-200-C

### DigitalMedia™ Presentation System 200

- › Fully-programmable 3-Series Control System
- › 6x2 multimedia presentation switcher
- › Built-in 4-channel gated microphone mixing w/DSP
- › Audio signal mixing and routing to 5 separate outputs
- › 3 stereo analog outputs with independent DSP per output
- › USB signal routing via DM transmitters and receivers or USB-EXT-DM extenders
- › Onboard IR, RS-232, relay, digital input, and Cresnet® control ports
- › IT-friendly network integration via SNMP
- › 3-space 19-inch rack-mountable



## DMPS3-300-C

### DigitalMedia™ Presentation System 300

All the features of the DMPS3-200-C plus:

- › 7x4 multimedia presentation switcher
- › Built-in 6-channel gated microphone mixing w/DSP
- › Audio signal mixing and routing to 7 separate outputs



## **DMPS3-300-C-AEC**

### **DigitalMedia™ Presentation System 300 With Audio Conferencing Interface**

- › Full-duplex voice conferencing over a POTS or SIP phone line
- › Seamless integration with one or two teleconferencing codecs
- › Full-bandwidth, fully-adaptive acoustic echo cancellation on each mic input
- › Built-in 6-channel gated microphone mixing w/DSP
- › Versatile audio signal mixing and routing to 8 separate outputs
- › Matrix signal routing for up to seven video sources and four displays
- › Two HDMI, two DM 8G+ or HDBaseT, and three stereo analog audio outputs
- › Two DM 8G+ or HDBaseT inputs
- › Built-in 40 Watt amplifier, 8 Ohm stereo or 70/100 Volts mono
- › Built-in 3-Series control system
- › 3-space 19-inch rack-mountable

\*Not offered in EMEA at this time

## 4K Scaling Presentation Switchers

Ideal for single-display presentation in a small conference room, huddle room, or collaboration room, the all-new HD-MD8X1-4K, DM-MD8X1-4K-C, DMPS3-4K-50, DMPS-4K-100-C, and DMPS3-4K-150-C provide fully automatic operation and work seamlessly out of the box with up to four Crestron Connect It™ tabletop interfaces. All five products feature 4K switching and scaling for presentation of higher native resolution sources such as 2560x1600 output from Apple® laptops, which require more bandwidth than ordinary 1080p switchers can handle. Even better, they're pre-programmed for super fast installation. Get your system up and running directly from the touch screen by answering a few simple questions. Simply select your sources and displays, and label icons.



**DM** **4K** **HDMI** **HDBaseT**

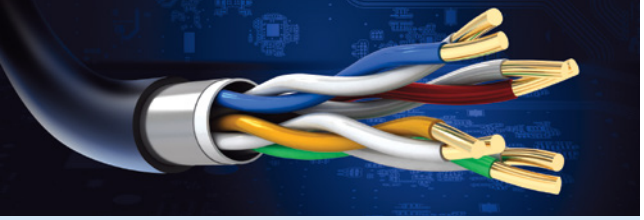
### DM-MD8X1-4K-C

#### 4K Scaling Auto-Switcher with HDBaseT® Output

Includes all the features of the HD-MD8X1-4K plus:

- DM or HDBaseT outputs
- Single microphone input for voice-lift

Product	Control	DM Inputs	DM Output	Mic Input
HD-MD8X1-4K	External Control System	—	—	—
DM-MD8X1-4K-C	External Control System	—	1	1
DMPS3-4K-50	Built-in 3-Series Control System	—	—	—
DMPS3-4K-100-C	Built-in 3-Series Control System	—	1	1
DMPS3-4K-150-C	Built-in 3-Series Control System	2	1	1



## **Built to Go the Distance: DM Ultra Cable, and DigitalMedia 8G® over Copper or Fiber**

The infrastructure you choose greatly impacts your AV systems. So make sure you choose cables that will do the job right today and tomorrow.

Only DM Ultra Cable, part of the all-new DM 3.0 family of products, is proven to deliver error-free 4K HDMI® signals via HDBaseT® over longer distances than other category cables. Typical CAT5e cable can only transmit 4K video up to 50 meters. Available in plenum-rated, non-plenum, and Low Smoke Zero Halogen types, only DM Ultra Cable exceeds the HDMI specification, which allows less than one pixel error per billion, for HDBaseT distribution of 4K content up to 100 meters.

DM Ultra Cable is a CAT7a shielded twisted pair cable engineered to deliver optimum performance for 10 gigabit Ethernet, perfect for any application that requires high-performance category cable. Installation is simplified using DM-CONN-20 connectors, which don't require any tools or crimping. Low Smoke Zero Halogen DM Ultra Cable meets the requirements for use in Europe per IEC 60332-1 specifications.

Crestron now offers three main types of DM 8G for interfacing DigitalMedia devices — DM 8G+®, DM 8G Fiber, and DM 8G SM Fiber. All three types handle high-bandwidth HD AV signals with full support for HDCP, CEC, and 3D video, plus HD multichannel audio formats like Dolby® TrueHD and DTS-HD Master Audio™.

DM 8G+ affords a true one-wire transport for moving high-definition video, audio, and Ethernet over low-cost twisted-pair cable. Using simple CAT5e wire, DM 8G+ achieves ultra high-bandwidth over distances of up to 330 ft (100 m).

All Crestron DM 8G+ products are HDBaseT® certified. Only Crestron delivers a complete, end-to-end solution including switchers, transmitters, and receivers certified by the HDBaseT Alliance.

## DigitalMedia 8G® Transmitters & Receivers

Crestron offers an ever growing line of compact transmitters and receivers in all three types of DM 8G, providing **the industry's most flexible and scalable platform** for interfacing with remote computers, AV sources and display devices — whether they're several feet or several miles away.



### DM-TX-4K-202-C DM-TX-4K-302-C

#### 4K DigitalMedia Transmitters

- › Built-in 2x1 or 3x1 4K AV switcher with auto-switching and analog audio-breakaway
- › Connects to a DM® switcher or receiver over a single CAT type twisted pair cable
- › Supports cable lengths up to 330 ft (100 m)
- › HDBaseT® Certified — enables direct connection to other HDBaseT certified equipment
- › Provides two 4K HDMI® inputs and one analog VGA/video input
- › Handles Dolby® TrueHD, DTS-HD®, and uncompressed 7.1 linear PCM audio
- › Includes an unbalanced stereo analog line-level audio input
- › Allows embedding of stereo 2-channel analog audio signals
- › Includes a local 4K HDMI output
- › HDCP 2.2 compliant

## HD Streaming

High-performance H.264 streaming enables global distribution of HD content over an existing wired or wireless IP network.



### DM-TXRX-100-STR

#### HD Streaming Transmitter/Receiver

- › Supports 1080p60/25 Mbps, H.264/AAC encode/decode
- › Employs high-quality H.264 video and AAC audio encoding/decoding
- › Includes HDMI® input and output
- › 10/100 Ethernet LAN port for streaming and control system integration



### DM-RMC-100-STR

#### HD Streaming Receiver & Room Controller

- › High-definition streaming media decoder
- › Supports streaming at resolutions up to 1080p60 and bitrates up to 25 Mbps
- › Employs high-quality H.264 video and AAC audio decoding
- › Includes HDMI® and analog audio outputs
- › Allows extraction of stereo 2-channel audio signals
- › Dynamic text and image overlay capability for branding and messaging
- › Enables device control via CEC, IR, and RS-232
- › Powered via PoE or local power pack



## DM-TX DigitalMedia 8G® Transmitters

- › Options for portable, surface-mount, wall plate, and rack mount applications
- › Available inputs for HDMI®, DisplayPort, VGA, and analog sources
- › Built-in auto-switching makes setup and operation a breeze
- › HDMI audio embedding enables combining digital video with analog audio sources
- › Most models include 10/100 Ethernet and USB HID ports
- › Compatible with USB-EXT-DM USB extenders
- › Ideal for use with Crestron FlipTop™ boxes

Models available with DM 8G+®, DM 8G® Fiber, or DM 8G SM Fiber connectivity

---

### Transmitters

---



DM-TX-401-C  
DM-TX-401-S  
DM-TX-401-S2



DM-TX-201-C  
DM-TX-201-S  
DM-TX-201-S2



**4K** DM-TX-4K-202-C  
**4K** DM-TX-4K-302-C



DM-TX-200-C-2G  
**4K** DM-TX-4K-100-C-1G

## **DM-RMC DigitalMedia 8G® Receivers**

- › Models available for surface or wall plate installations
- › Low-profile designs fit neatly behind displays and above projectors
- › Support for latest 4K displays and ultra high-resolution monitors
- › Models available with DM 8G+®, DM 8G Fiber, or DM 8G SM Fiber connectivity
- › Every model features an HDMI® display output
- › Professional-quality scaling on select models affords ultimate flexibility and reliability for systems using multiple disparate sources and displays
- › All scaler models support video wall processing
- › All models support CEC display control
- › Most models include Ethernet, IR, and RS-232 control ports
- › Select models available with built-in audio amplification, audio de-embedding, relay ports, digital input ports, and/or USB HID signal routing ports
- › All models compatible with USB-EXT-DM USB Extenders
- › Also compatible for direct connection to a DM transmitter for point-to-point signal extension

## Receivers



**4K** DM-RMC-4K-100-C-1G



**4K** DM-RMC-4K-SCALER-C

**4K** DM-RMC-4K-SCALER-C-DSP



**4K** DM-RMC-4K-100-C

DM-RMC-100-S



DM-RMC-SCALER-C

DM-RMC-SCALER-S

DM-RMC-SCALER-S2



DM-RMC-200-C

DM-RMC-200-S

DM-RMC-200-S2



HD-XSPA (see “Audio”

**4K** section for full details)

*DM receiver with 7.1 surround sound and built-in amplifier.*

## Enhanced USB Routing for DigitalMedia™ and More!

Plug the USB-EXT-DM USB Extenders into your Ethernet network, and then you can switch any USB device connected to a USB-EXT-DM-REMOTE to any USB host connected to a USB-EXT-DN-LOCAL. The USB-EXT-DM lets you connect USB peripherals of virtually any type including keyboards, mice, game controllers, interactive whiteboards, flash drives, web cameras, and mobile devices anywhere in the building using the local area network. Use a mouse and keyboard in one room to control a computer or media server in another room. Connect an interactive whiteboard at the front of the classroom to a computer or annotator tucked away in the equipment room. Connect a USB flash drive or media player to download and stream files from your home office PC. Sync your smartphone, play video games, and access the Internet from any display in the house.

As part of a DigitalMedia system, multiple USB Extenders can be deployed to provide a complete USB signal routing solution for anything from sharing home entertainment resources throughout a residence to enabling sophisticated KVM switching in a corporate training lab.



### USB-EXT-DM USB Extenders

- Adds USB host or device connectivity to any DM® transmitter, receiver, or switcher
- Can also be used without a DM system or Ethernet; simple point-to-point extension doesn't require LAN
- Enables sophisticated USB routing or simple point-to-point USB extension
- **USB-EXT-DM-REMOTE** provides "remote" connectivity for up to four USB peripherals at one location
- **USB-EXT-DM-LOCAL** provides "local" connectivity for a single USB host
- Supports isochronous devices such as webcams and media devices
- USB 1.1 and 2.0 compatible
- Gigabit Ethernet connectivity



## DM-MD 8X8, 16X16, & 32X32 4K DigitalMedia™ Switchers

- › Provides lossless HD AV signal routing over CAT5e or fiber
- › Supports 4K video and 7.1 audio
- › Integrates video, audio, networking, and control over one wire
- › Affords full matrix switching scalable from 8X8 to 32X32
- › HDBaseT® certified
- › DM 8G+® in/out supports 330 ft (100 m) over CAT5e
- › DM 8G® Fiber in/out supports 1000 ft (300 m) over multimode fiber
- › DM 8G SM Fiber in/out supports up to 7.5 miles (12 km) over single-mode fiber!
- › H.264 streaming in/out enables signal distribution over existing IP infrastructure
- › Modular input cards available for HDMI®, HDBaseT, DisplayPort Multimode, DVI, VGA, 3G-SDI, RGB, S/PDIF, analog video/audio, H.264 streaming, and all types of DM®
- › Output cards available for HDMI, analog audio, streaming, and all types of DM
- › QuickSwitch HD® switching and HDCP key management
- › Simple EDID signal management
- › Integrated Gigabit Ethernet switch with private network mode
- › Simultaneous output of stereo and 7.1 surround sound audio
- › Integrated device control via CEC, IR, and RS-232
- › USB signal routing
- › Available with internal redundant power supply

## Configure Your Switcher Any Way You Want It

Imagine a professional 4K matrix switcher custom built just for you. That's what you get with the DM-MD8X8, DM-MD16X16, and DM-MD32X32. These modular card-based switchers are **completely configurable using individual input cards and single-gang output cards**. First, select from **a complete range of digital, analog, and streaming inputs** to accommodate all of your sources. Then, route your signals to your displays and other destinations using **your choice of DM copper or fiber, HDBaseT®, HDMI®, analog audio, and H.264 streaming outputs**. All cards are field-installable, so you can update your switcher with new or different inputs and outputs any time you need to.



### DMC Series

#### Input Cards for DM® Switchers

- › Single input cards available with HDMI®, HDBaseT®, DisplayPort Multimode, DVI, 3G-SDI, VGA, RGB, S/PDIF, analog video & audio, H.264 streaming, and all types of DM
- › HDCP 2.2 compliant
- › HDMI pass-through port on every input card
- › Optional surround-sound downmixing on HDMI, HDBaseT, and DM input cards
- › Analog outputs for audio de-embedding on all digital input cards
- › Support for 4K via HDMI, HDBaseT, and DM 8G+
- › DMC-STR card receives 1080p HD video from IP cameras, encoders, and other DM switchers
- › DMC-VGA card provides advanced video processing of analog RGB, component, S-Video, and composite sources
- › DMC-VID4 card provides quad window processing of composite sources



## DMC Series

### Output Cards for DM® Switchers

- › Single-gang design affords maximum configurability
- › Each card provides two independent outputs (except for DMC-STRO, which features dual image compositing)
- › HDCP 2.2 compliant
- › Output cards available for HDMI, HDBaseT®, 4K, analog audio, H.264 streaming, and all types of DM
- › Most DM output cards include an extra HDMI port on one output
- › DMC-STRO card transmits streaming video over IP to touch screens, mobile devices, digital signage, and other DM switchers

## Distribute Any Source Anywhere with DM Streaming

High-performance H.264 streaming capability enables enterprise-wide distribution of HD content over an IP network. Streaming expands the capabilities of DM® to **remove all distance limitations and distribute any video source to any device — anywhere in the world.**

Streaming is an essential component of any complete DM system, allowing for high-definition signal routing to Crestron touch screens, digital signage displays, remote buildings, and global offices without requiring any new or dedicated wiring. IP cameras and other H.264 streaming sources are also supported.



### DMC-STR Streaming Input Card

- › Input card for DM-MD8X8, DM-MD16X16, and DM-MD32X32 switchers
- › Receives an H.264 video stream over an IP network
- › High-definition AV signal distribution with no distance limitations
- › Resolutions up to 1080p60 and bitrates up to 25 Mbps
- › High-quality AAC 2-channel stereo audio
- › Local HDMI and stereo analog audio outputs
- › Compatible with DMCI card interface as a streaming receiver



### DMC-STRO Streaming Output Card

- › Single-slot output card for DM-MD8X8, DM-MD16X16, and DM-MD32X32 switchers
- › Transmits an H.264 video stream over an IP network
- › Resolutions up to 1080p30 and bitrates up to 25 Mbps
- › Built-in scaling enables streaming of any input source up to Full HD 1080p or UXGA/WUXGA
- › High-quality AAC 2-channel stereo audio
- › Unicast or multicast, with or without RTSP



## Large-Scale, Mission-Critical DM® Switching

For massive projects demanding ultimate reliability, the DM-MD64X64 and DM-MD128X128 are configurable using 8-channel I/O blades and redundant power supplies. Everything from the I/O blades to the power supplies and cooling fans are hot swappable, minimizing or eliminating any down-time.

### DM-MD64X64 & 128X128 4K DigitalMedia™ Switchers

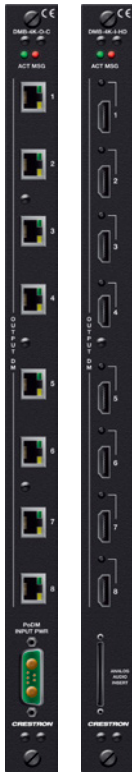
- › Modular design configurable in blades of eight inputs or outputs
- › Full matrix switching scalable from 8X8 to 128X128
- › DM 8G+®, DM 8G® Fiber, DM 8G SM Fiber, and HDMI I/O blades available
- › HDBaseT® certified
- › Supports 4K video and 7.1 audio
- › Front panel touch screen for switcher setup, control, and video preview
- › QuickSwitch HD® technology manages HDCP keys for fast, reliable switching
- › USB signal routing
- › Integrated Gigabit Ethernet switch with private network mode
- › Easy setup and diagnostics via front panel or web browser
- › Onboard hot-swappable redundant power supplies and fan tray; cold swappable CPU
- › Fault monitoring and notification via front panel and network

**DM**  
**4K**  
**HDMI**  
**HDBT**



## I/O Blades for Massive Projects

Our blade-based DM® matrix switchers provide a clear solution for large-scale projects, offering up to 128 inputs and 128 outputs in a single chassis. The DM-MD64X64 and DM-MD128X128 are both configurable using 8-channel I/O blades, packing maximum I/Os into minimal rack space. DM switcher I/O blades are hot-swappable, allowing individual blades to be installed or replaced without shutting down the rest of the system.



### DMB Series

#### 8-Channel I/O Blades for DM® Switchers

- › Input and output blades available for HDMI®, DM 8G+®, HDBaseT®, DM 8G® Fiber, and DM 8G SM fiber
- › Support for 4K via HDMI, HDBaseT, and DM 8G+
- › All I/O blades are hot-swappable
- › AUD-BOB-1602 breakout box adds analog stereo audio connectivity to the HDMI output blade

## Crestron Connect It™

Crestron Connect It™ is a user-friendly tabletop presentation solution offering connectivity and control in one easy-to-install device. Using the Crestron Connect It Presentation Interface, anyone can easily connect their laptop or tablet device and instantly start presenting. Multiple Presentation Interfaces can be deployed to enable natural, free-flowing collaboration amongst several participants in a huddle room, conference room, or training lab. Simple one-touch control at each Presentation Interface makes toggling between sources effortless.



TT-100



TT-110

## TT-100 Crestron Connect It™ Presentation Interface

- › Streamlined tabletop presentation interface
- › Stylish, unimposing design
- › Simple one-touch toggling between multiple presenters
- › Soft-touch capacitive buttons with multicolored status indicators
- › Convenient left or right hand access
- › Recessed cable storage compartment
- › Available with or without cables
- › Optional 120 Volt AC power outlet
- › Integrates with DigitalMedia™ and other systems
- › Combined with a DMPS3-4K Series, DM-MD8X1-4K-C, or HD-MD8X1-4K provides a complete out-of-the box collaboration system solution
- › Compact and easy to install
- › Available in black or gray textured
- › Installs in a 4" round hole (102mm)

## FlipTop™ Interface & Control

Crestron FlipTops™ offer a **connectivity solution for conference tables and podiums** that is both stylish and highly configurable for connecting laptops and other devices. The FlipTop™ connection compartment can be populated with **variable combinations of pull-out interface cables, connector plates, cable retractors, and power outlets** to address each application perfectly. **Integrated touch screen and control processor options** add complete control at your fingertips, with the potential for eliminating the need for a separate equipment cabinet. FlipTops provide an ideal complement to any DigitalMedia™ presentation system.

### FT-600 FlipTop™ Basic

- › Flush mount tabletop connectivity in a stylish FlipTop design
- › An ideal complement to Crestron® DigitalMedia™
- › Configurable connection compartment allows versatile combinations of pullout cables, cable retractors, connector plates, and AC power outlets
- › International power outlets
- › Tapered cable notch allows lid to be closed with cables plugged in
- › Lacing bar for under table cable management
- › Universal cutout size fits all new and future FlipTops™
- › Black anodized or brushed aluminum finish

FT-600



FT-TS600



## **FT-TS600 FlipTop™ Touch Screen**

- › All the features of the FT-600
- › Integrated 5" capacitive color touch screen with Smart Graphics™
- › High-performance H.264 streaming video over Ethernet
- › 5 soft-touch capacitive buttons
- › Hands-free audio conferencing using Rava® SIP Intercom Technology
- › Customizable audio feedback
- › Built-in microphone and speaker
- › Balanced line output for amplification of the speaker signal
- › PoE or PoE+ network powered

## **FT-TSC600 FlipTop™ Touch Screen Control System**

- › All the features of the FT-TS600
- › Built-in 3-Series® control processor
- › Onboard 10/100 Ethernet and Cresnet® master ports
- › Control port expansion via C2N-IO modules



## **CBLR2 Cable Retractors**

- › Provides a refined cable management solution for Crestron FlipTops™
- › Up to six fit in one FlipTop
- › Keeps interface cables at-the-ready
- › Eliminates hanging cable loops beneath the table
- › Easy-to-use — pull the cable out for use — pull it again to retract
- › Patented mechanism prevents whipping of the cable while retracting
- › HDMI®, VGA, stereo audio, USB, Ethernet, HDBaseT®, DisplayPort, and DigitalMedia 8G+® models available

## Easy, Affordable, End-to-End HD Capture

CaptureLiveHD® delivers **high-definition capture of meetings and lectures** with easy, out of the box setup and the lowest cost of ownership on the market. Incredibly simple to use, CaptureLiveHD is an ideal choice for any learning institution or corporate enterprise that needs to capture classes and presentations for use in online education, training, or other purposes. A complete CaptureLiveHD system provides **a scalable end-to-end solution for scheduling, recording, and online delivery** of captured content.

The CaptureLiveHD solution includes a Crestron Capture HD® recorder in every room, all managed by Crestron Fusion® software. CaptureLiveHD leverages Crestron Fusion software to deliver **a total workflow engine for moving recorded content seamlessly through the entire process** from capture to consumption with minimal human effort.



- › A complete end-to-end meeting and lecture capture solution
- › Allows full-motion capture in high-definition 1080p
- › Lowest cost of ownership
- › Easy, efficient scheduling, recording, and online delivery
- › Simple enough for the entire faculty to use
- › Scalable to fit any college, government, or corporate workflow
- › Captures complete AV presentation with live video of the presenter
- › Provides content for online courses, on-demand lesson review, corporate marketing and training, and archiving
- › Enables seamless online viewing using computers and mobile devices
- › Simple integration with open source media sites

## **CAPTURE-HD-PRO** Capture HD® High-Definition Capture Recorder

- › Delivers a low-cost, high-performance HD presentation capture solution
- › Designed for college, university, teaching hospital, government and business applications
- › Records the complete AV presentation, classroom lecture, or training session in high-definition 1080p resolution
- › Extremely easy to use and flexible enough to fit any workflow model
- › Works with Crestron Fusion® software for a total workflow engine
- › Integrates easily into existing AV presentation systems and networks
- › Provides inputs for high-definition digital
- › Built-in scaling ensures compatibility with a full range of sources
- › Provides a composite video input for the presenter's camera
- › High-definition 3G-SDI camera input
- › Includes local AV output for confidence monitoring or presentation pass-thru
- › Allows Crestron control system integration via Ethernet
- › Gigabit Ethernet enables high transfer rates for uploading of HD media files
- › Single-space 19" rack-mountable



## **Touch Screen Capture Controller**

Capturing lectures and meetings is a breeze using the CAPTURE-TPMC-4SM Touch Screen Controller. The presenter need only follow the prompts on the touch screen to **easily start and stop a recording, pause or mute the recording and add bookmarks** during the session, and make very basic adjustments when needed. The touch screen can also display a live view of the presenter's camera and a microphone level meter for an extra level of confidence.



## DigitalMedia and Skype® for Business The Most Powerful Unified Communications Combination

With just one touch of a button, anyone can **walk into a conference room and instantly start a collaboration session**. Share your desktop with local and remote participants. View and annotate over PowerPoint® remotely or locally using the touch display. Share ideas and compare notes with remote participants anywhere, at any time using any device.



## The Amazing New Crestron RL® 2 Codec

Crestron RL 2, the enhanced second-generation version of Crestron RL, delivers a unified collaboration solution for the conference room, combining Crestron hardware with Microsoft® Skype for Business software. In a smaller chassis than its predecessor, this fully-featured Skype based system enables video, voice, interactive content sharing, presence, and chat from one touch screen interface. Improvements over the first-generation system include:

- › DM input for remote video transmitters
- › Auto-switching between VGA, HDMI and DM video sources
- › Analog microphone inputs for ease of custom installation





# Crestron RL® 2

## Group Collaboration System for Skype® for Business

- Combines Microsoft® Skype® for Business and DM to provide a single-box solution for collaboration within and/or outside conference rooms
- Real-time collaboration from anywhere using computers and mobile devices
- Integrates with the complete line of Crestron automation solutions, so you can add local control of AV, lighting, shades, and HVAC equipment — all from the tabletop touch screen
- Built to perform to IT standards, on a validated architecture that provides a consistent user experience
- Can be directly monitored from Crestron Fusion right out of the box
- Add a DM transmitter for remote inputs, or with switching (such as DM-TX-201 with Connect It) upstream using the integrated DM input
- Codec can switch between VGA, HDMI and DM sources without any separate switcher
- Low cost of ownership — no extra licenses, MCUs or gateways needed.
- Native Crestron integration as part of a complete room control and building management solution.
- Backwards compatible with existing VTC systems

## Crestron RL 2

### A Solution for Every Room

#### Integrator Kit

**(CCS-UC-200\_KIT)** Includes:

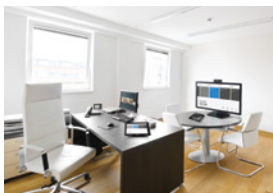
- › New Crestron RL 2 codec
- › TS-1051-C touch screen
- › Brackets for rack and under-table mounting



#### Package 1

Ideal for **huddle spaces**, it includes:

- › New Crestron RL 2 codec
- › TS-1051-C touch screen
- › Camera
- › All-in-one speakerphone
- › Cables and under-table mounting hardware
- › Available with or without 32 inch display



#### Package 2

Ideal for **small and medium conference rooms**, it includes:

- › New Crestron RL 2 codec
- › TS-1051-C touch screen
- › Sound bar, camera, and USB mic
- › Cables and mounting hardware
- › Your choice of one or two 60 inch display(s) on wall mount or stand



#### Package 3

Ideal for **large rooms**, it includes:

- › New Crestron RL 2 codec
- › TS-1051-C touch screen
- › Sound bar, camera, and USB mic
- › Cables and mounting hardware
- › Your choice of one or two 70 inch touch display(s) on wall mount or stand; or an 80 inch touch display on wall mount or stand





### Present Wirelessly

With AirMedia® anyone can walk into a room and **wirelessly present** PowerPoint®, Excel®, Word, and PDF documents, as well as photos, on the room display from your personal iOS® or Android™ mobile device. MacBook® and PC laptops can be connected seamlessly as well, allowing for presentation of anything on your computer desktop including video.

### AM-100 AirMedia® Presentation Gateway

**Provides network-safe BYOD leveraging existing Ethernet infrastructure and security protocols**

- › Enables wireless presentation using laptops, tablets, and smartphones
- › Windows®, OS X®, Apple® iOS®, and Android™ compatible
- › Displays up to four presenters simultaneously in Quad View
- › Integrates seamlessly with Crestron Connected® displays
- › Supports Full HD 1080p and UXGA display resolutions
- › HDMI®, VGA, and analog audio outputs
- › Customizable welcome screen provides clear instructions for presenters
- › Allows a variety of connection methods to suit any organization
- › Other participants can view and save presentation images through a Web browser for easy note taking
- › In moderator mode, presenters and instructors can easily control the room by selecting whose content to share and whose content not to share, all from the AirMedia web page or touch screen
- › Deployable desktop application can be managed like other enterprise software
- › Integrates with DM®, CaptureLiveHD™, and Crestron Fusion®
- › Simple installation and setup

## Integrated by Design™ At Its Core



Today's corporate, university, hospitality, and government organizations require more than just AV or lighting control in a few rooms. They demand the ability to monitor and manage all of the technology in every room across entire buildings and campuses.

Crestron 3-Series® employs **a unique control system architecture** engineered to provide the backbone of the most powerful control network available today. Crestron 3-Series enables organizations to securely **integrate every AV device and building system on a single high-speed platform**, and manage it all from a centralized dashboard using Crestron Fusion®.

**Dual Networks** – Dedicated Control Subnet enables the Crestron ecosystem to run parallel to the corporate IT network while requiring just one IP address (select models only).

**SNMP Support** – Allows network administrators to manage control systems on the network in an IT-friendly format.

**Authentication & Security** – Supports Active Directory and standard protocols including TLS, FIPS-140, SSH, and SFTP

**Native BACnet/IP** – Enables seamless integration with existing building management systems.

**Modular Programming** – Affords enhanced scalability with high-speed, real-time multi-tasking to seamlessly run multiple programs simultaneously.

**SIMPL# and SIMPL#Pro** – Provides a standard C# programming environment utilizing the .NET Framework for streamlined integration with third-party products and databases. SIMPL# Libraries work seamlessly with SIMPL+® while SIMPL#Pro programs run on their own. Use SIMPL#Pro to write a program that is 100% hardware independent, and runs on any 3-Series control system without the need to recompile.

## Other Great Features

- › Accelerated 3-Series Control Engine
- › Supports Smart Graphics, XPanels, and Touch screens
- › Supports mobile control apps for Apple iOS and Android
- › Supports Crestron Fusion®
- › Supports SNMP remote management
- › Installer setup via Web browser
- › Full Unicode (multi language) support
- › Access security through full user/group management, as well as active directory integration
- › IIS v6.0 Web Server



## PRO3 3-Series Control System®

- › Onboard 1GB RAM & 4GB Flash memory
- › Expandable storage up to 1TB
- › Rear panel memory card slot
- › Control Subnet — provides a dedicated local network for Crestron® devices
- › Two fully-featured RS-232/422/485 COM ports
- › Four RS-232 COM ports with software handshaking only
- › Eight IR/serial, eight relay, and eight Versiport I/O ports
- › Three built-in 3-Series control card expansion slots
- › Installer setup via front panel, software or Web browser
- › Front panel color LCD display
- › 2-space rack-mountable

[illegible]

- All the features and performance of the PR03 without the color LCD display
- 3-Series® control card expansion slots are an add-on option



- One RS-232/422/485 COM port with hardware/ software handshaking
- A more compact, lower-cost alternative to the PRO3 and AV3
- 512MB RAM & 4GB Flash memory
- Expandable storage up to a single TB
- Rear panel memory card slot
- Cresnet, Gigabit Ethernet, and Control Subnet ports
- Two RS-232 COM ports with software handshaking only
- Eight IR/serial, eight relay, and eight Versiport I/O ports
- No built-in control card expansion slots
- Single-space rack-mountable



- All the features and performance of the CP3N without the Control Subnet port
- 10/100 Ethernet LAN port



### RMC3

#### 3-Series® Room Media Controller

- › Compact and cost-effective
- › Modular programming architecture (optional)
- › 256MB RAM & 4GB Flash memory
- › Support for external USB memory and storage
- › Ethernet and Cresnet® communications
- › One RS-232/422/485 COM port with hw/sw handshaking
- › Two IR/serial, two relay, and two digital input ports
- › USB On-The-Go port
- › PoE network powered
- › Compact, stackable “IFE micro” form factor
- › Surface or DIN rail mountable using included bracket
- › Available rack mount and pole mount options



### DIN-AP3 3-Series® Automation Processor

- › Similar features to a CP3 in a DIN rail mountable package
- › Two RS-232/422/485 COM ports with hw/sw handshaking
- › Four IR/serial, four relay, and eight Versiport I/O ports
- › 9M wide DIN rail mountable
- › Also available, **DIN-AP3MEX** with built-in infiNET EX® wireless gateway, plus Ethernet and Cresnet® only (no onboard control ports)

## Easy System Expansion — It's in the Cards!

Adding control ports to any 3-Series Control System® is easy using 3-Series® Control Cards and Card Interfaces. Plug up to three control cards directly into an AV3 or PRO3, or use one or more 3-Series Card Interfaces to **add more COM ports, IR ports, relays, and Versiport I/O ports to any 3-Series Control System.**



### CEN-CI3-1

#### 3-Series® Card Interface – 1 Slot

- › Accepts one 3-Series® Control Card
- › Provides control port expansion for any 3-Series Control System®
- › Powerable via PoE or external power pack
- › Half-width, single-space rack-mountable



### CEN-CI3-3

#### 3-Series® Card Interface – 3 Slots

- › Accepts up to three 3-Series® Control Cards
- › Includes a built-in Gigabit Ethernet switch for easy expansion of the network
- › External power pack included
- › Single-space rack-mountable



### C3 Series 3-Series® Control Cards

- › Plug-in control port expansion for CEN-CI3-1, CEN-CI3-3, AV3 and PRO3
- › Models available with COM, IR, relay, or Versiport I/O ports



### **Crestron Touch Screen Control Systems — No Rack Required!**

These touch screen control systems harness all the power of Crestron to provide **a complete control solution in one compact wall mount or tabletop device**. Perfect for single rooms, condominiums, townhouses, MDUs, and hotels wherever equipment space is limited.



### **TPCS-4SM**

#### **4.3" Touch Screen Control System**

- › 3-Series® control system
- › 4.3" touch screen — with Smart Graphics™ support
- › Runs a single control system program
- › Onboard 10/100 Ethernet and Cresnet® master ports
- › Control port expansion via C2N-IO module
- › Supports up to ten Ethernet and ten Cresnet devices including touch screens, keypads, thermostats, dimmers, sensors and other peripherals
- › Supports a single infiNET EX® gateway
- › Supports one mobile device running the Crestron app
- › Supports Crestron Fusion® and SNMP remote management
- › Customizable audio feedback
- › Built-in proximity sensor
- › Ten optional "hard key" pushbuttons
- › Dual-color red/green LED button backlighting and feedback
- › Also available with white LEDs (model TPCS-4SMD)
- › Custom engravable button text
- › PoE network powered
- › Compatible with all TPMC-4SM wall, surface, and tabletop mounting options
- › Available with black or white smooth finish



## **TSCW-730**

### **7" Touch Screen Control System**

- › Built-in 3-Series® control system
- › 7" capacitive color touch screen with Smart Graphics™
- › High-performance H.264 streaming video
- › Rava® SIP intercom and phone technology
- › Customizable audio feedback
- › Built-in microphone and speakers
- › Built-in proximity sensor
- › 10 optional "hard key" pushbuttons
- › Dual-color button backlighting
- › Custom engravable button text
- › Onboard 10/100 Ethernet and Cresnet® master ports
- › PoE+ network powered
- › Control port expansion via C2N-IO modules
- › Versatile wall, surface, and tabletop mounting options
- › Modern, contoured appearance
- › Available with black or white smooth finish

### Total Control is On The Table

The FT-TSC600 provides a **configurable control and connectivity solution** in a stylish, flush mount tabletop design. Its **built-in 3-Series® control processor** and brilliant 5" color touch screen combine to deliver a complete, space-saving controller for any small conference room or similar space. The built-in connection compartment **keeps interface cables and connectors at the ready** for plugging in laptops, mobile devices, and other equipment.

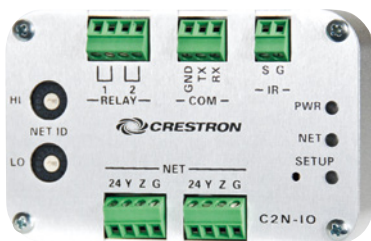


### FT-TSC600

#### FlipTop™ Touch Screen Control System

- › Tabletop control and connectivity in a stylish FlipTop™ design
- › Built-in 3-Series® control processor
- › Onboard 10/100 Ethernet and Cresnet® master ports
- › Control port expansion via C2N-IO modules
- › 5" capacitive color touch screen with Smart Graphics™ support
- › High-performance H.264 streaming video over Ethernet
- › Seamless integration with Crestron® DigitalMedia™
- › 5 soft-touch capacitive buttons for common functions
- › Hands-free audio conferencing using Rava® SIP Intercom
- › Customizable audio feedback
- › Built-in microphone and speaker
- › Balanced line output for amplification of the speaker signal
- › PoE+ network powered
- › Custom configurable connection compartment
- › Same appearance and cutout size as other 600 Series FlipTops™
- › Black anodized or brushed aluminum finish
- › International power outlets

## 3-Series® Control Systems



### C2N-IO Control Port Expansion Module

- › Installs anywhere extra control ports are needed
- › Fits within the wall box behind a TPCS-4SM
- › Provides 1 RS-232, 1 IR/serial, and 2 relay ports
- › Compatible with any Crestron 2-Series or 3-Series® control system
- › Interfaces via Cresnet® control bus
- › 24VDC Cresnet powered
- › Surface mount bracket included

### Wireless Control Port Expansion

Add remote IR, RS-232, relay and digital input ports to a Crestron control system anywhere in the building without running any new wiring or conduit.

INET-IOEX-RYIO



INET-IOEX-IRCOM



### INET-IOEX Series Wireless Control Modules

- › Low-cost wireless control interfaces
- › infiNET EX® wireless communication
- › Ultra-compact, surface mount design
- › 3-Series® compatible
- › **INET-IOEX-RYIO** provides two relay and two digital input ports
- › **INET-IOEX-IRCOM** provides one RS-232 and two IR ports

## On-Screen Display Control

The MC3 offers a 3-Series Control System® in a compact form factor with several special features including onboard audio file playback and **integrated infiNET EX® wireless gateway**.

**OSD (On-Screen Display) enables control through any TV or video display** using customizable scrolling menus, full-color icons, bar graphs, and metadata.



## MC3 3-Series Control System®

- › 3-Series® control engine
- › Onboard 256MB RAM & 2GB Flash memory
- › Expandable storage up to 1TB
- › Integrated infiNET EX® wireless gateway
- › ER radio support
- › Industry-standard Ethernet and Cresnet® wired communications
- › Available RF and IR control options
- › Customizable OSD user interface
- › Component and composite video outputs
- › WAV, MP3, and WMA audio file playback
- › Built-in IR, COM, relay, and digital input ports
- › High-speed USB 2.0 host ports
- › On-screen installation setup
- › Installer setup via Crestron Toolbox™ or Internet Explorer®

## Power Over Your Network

Imagine **the simplicity of Cresnet with the bandwidth of Ethernet**. It's available today from Crestron through an ever-expanding line of touch screens and other devices utilizing high-speed Ethernet connectivity with PoE (Power over Ethernet). Ethernet with PoE means **total connectivity over one wire**. Configuring a Crestron network of PoE devices is streamlined using any of our PoE Switches and Injectors.



### CEN-SWPOE-16 16-Port Managed PoE Switch

- › All ports 1000Base-T Gigabit Ethernet
- › Provides full PoE on all ports simultaneously
- › Also supports 802.3at PoE+ powered devices
- › Up to 34.2W per port, 255W total
- › PoE switchable per port via a control system
- › Energy usage monitoring via a control system
- › Auto-negotiating and auto MDI/MDIX
- › Layer two managed switching functionality
- › LLDP (Link Layer Discovery Protocol) support
- › Web browser configuration
- › Customizable front panel labeling
- › AV friendly, single-space rack-mount design



### CEN-SW-POE-5 5-Port PoE Switch

- › All ports 1000 Base-T Gigabit Ethernet
- › 802.3af PoE on four ports
- › Convenient surface-mount form factor

## Wi-Fi® to a Higher Power

Smartphones, tablet computers, wireless touch screens and remotes ... they all give you **the freedom to control all of your technology in incredible ways from any location** in your home or workplace. But, the quality of that experience is entirely dependent on the strength and reliability of your Wi-Fi® network. The CEN-WAP-1500 is a high power, professional grade wireless access point designed to deliver **superior wireless range and maximum data rates** for demanding residential and commercial applications. (For use in North America only.)



## CEN-WAP-1500 High Power Dual-Band Wireless Access Point

- › High output power (1000 mW) for broader coverage
- › Concurrent dual-band (2.4 GHz & 5 GHz) technology
- › 802.11 a, b, g, and n support
- › Data transfer rates of up to 900 Mbps
- › VLAN support for creating a secure guest network
- › QoS support for prioritizing network traffic
- › Support for up to eight SSIDs
- › Web browser based management
- › System logging capability
- › One-wire installation using included PoE injector
- › Low-profile housing
- › Shelf, wall, or ceiling mount installation

# Crestron Fusion®

## Enterprise Building Management

By tracking how people work, the places in which they work, and the tools they use to accomplish their job, Crestron Fusion provides you with the information you need to optimize your biggest investments: people, spaces, and technology.



**People** – By helping knowledge workers locate workspaces, and easily connect to the people and tools they need, Crestron Fusion reduces the wasted time and frustration they experience throughout their day, enabling them to be as productive as possible.

**Spaces** – By providing complete visibility of every room in every building around the campus or around the world, Crestron Fusion helps real estate and facilities managers maximize room usage, and make data-driven decisions about workspace utilization and energy consumption.

**Technology** – By providing complete visibility to every AV device and environmental systems across the organization, Crestron Fusion enables managers to gather data on which technology people are using and schedule preventive maintenance that maximizes equipment uptime on a robust, secure, and scalable platform.





## Building the Technology that Integrates Technology

Crestron integrates systems and technologies that typically operate in silos, so they work together as a single system. Audio, video, voice and data, lighting, security, digital signage, Building Management Systems (BMS), shades, and HVAC systems can be centrally monitored, managed and controlled. Crestron software adds a layer of intelligence to turn an organization into an Intelligent Enterprise.



Crestron Fusion provides more data points and connects them in ways that no other software can. Robust usage and analytic reports supply the intelligence and insight needed to make informed decisions about purchasing, scheduling, resource allocation, and workspace design that make knowledge workers more productive and organizations more efficient.



## Global Device Management

- › Monitor device status in any room, anywhere in the world
- › Manage equipment life cycles
- › Issues alerts to perform preventive maintenance avoid to maximize uptime
- › Flexible API for easy connection to popular ticketing systems
- › Interactive 3D visualization of entire organization, status of spaces and all devices within them



## Centralized Help Desk and Support

- › Centralized technical documentation repository for each space
- › Remote help desk alerts
- › Instant messaging using touchscreens in the room
- › Remote control of room devices
- › Live support via Web cam



## Asset and Space Utilization

- › Track and report data points such as connectivity preferences, device utilization, space utilization, and space and asset misuse
- › Custom reports provide actionable data to enable management and optimization of resources and investments



## Advanced Scheduling

- › Native integration with popular calendar programs
- › Search available rooms and book meeting spaces from scheduling panels outside of rooms and from Crestron PinPoint personal workday app
- › Maximize room usage



## User Experience and Automation

- › Touchless meeting startup
- › One-touch video conference join
- › Instant mobile content sharing
- › Automatic post-meeting room reset



## Broadcast Messaging

- › Transmit custom emergency notifications to displays and touchscreens in specific rooms or every room
- › Instructions, images, and graphics can be stored for robust emergency preparedness
- › Real-time messages can be pushed out any time



## Smart Building Integration

- › Reduce energy costs by monitoring and controlling power consumption
- › View lighting levels and temperature, and adjust remotely in real-time
- › Create intelligent routines and adaptive schedules that optimize HVAC, lighting, and shade positions based on time of day, time of year, occupancy, and how the room is used
- › Integrates with existing Building Management Systems and alternative energy sources, so work spaces become smarter, sustainable, and more cost effective



## Crestron Fusion<sup>®</sup> CLOUD

Start with a simple menu of applications customers, dealers and consultants choose from to build a set of requirements. Next, instead of leaving the deployment to chance, Crestron will be providing deployment services – providing programming and configuration guidance to Enterprise Dealers, ensuring customers receive exactly what they chose. This Cloud based deployment reduces the stress of building a server, simplifying the deployment. The monthly Cloud fee includes set up, deployment, configuration, training and support – ensuring clients have a great Crestron experience.

**Available on-premises with three flexible installation approaches** – virtual machine, dedicated server, or with a pre-installed Crestron server – the system enables you to seamlessly monitor and manage all devices in the building, across the campus, or around the world, so you can maximize room usage uptime.



## Hosted Scheduling Service

For customers that simply want to take advantage of Crestron's world-class scheduling panels, no longer will they be required to purchase a license, configure Crestron Fusion and build a server. They simply work with our Crestron Fusion Deployment Group to set up their hosted account and point their scheduling panels at the server. This offering will be promoted through all dealers, providing a low-cost, simple solution for the majority of end customers.

Other management software suites provide visibility into just one system, letting you know if specific devices are "online" or "offline." They may even turn the building "on" in the morning and "off" at night. Crestron Fusion does that and much more.

# Crestron PinPoint™

## PP-100 Proximity Detection Beacon



PinPoint™ enhances the intelligence and personalization of your Crestron® system by enabling your iPhone® or iPad® to always know what room it's in. PinPoint works with the Crestron App to ensure that the controls displayed on your device are applicable to the room you're in.

Walk into the kitchen and you're automatically presented with lighting, audio, and TV controls for that room. With PinPoint, there's no need to manually select your current room from a menu — your iOS® device always knows where it's at.

- › Works with the Crestron® App for Apple® iOS®
- › Enables an iPad® or iPhone® to know what room it is in
- › Allows current room controls to be displayed automatically
- › Eliminates need to manually select the current room
- › Enables enhanced automation based on device location
- › A low-profile beacon device gets installed in each room
- › Requires a simple USB wall charger or any available USB port
- › Supports up to 100 rooms, with one or more beacons per room
- › Configured via the PinPoint™ setup app (iOS only)



## **myCrestron Residential Monitoring Service for Crestron Systems**

MyCrestron Residential Monitoring Service enables dealers to centrally monitor and manage Crestron Pynq® and 3-Series® systems via the cloud. Now potential issues can be identified faster and resolved quickly so customers are happier than ever.

All customer systems are displayed on an online dashboard to provide a comprehensive status update at a single glance. From there, dealers can drill down to the system-level and device-level event logs automatically saved to the cloud. True Blue Support and dealer technicians, wherever they may be, can access log files to eliminate many troubleshooting truck rolls.



SMS and/or email notifications can be set up for each system integrated with the MyCrestron Residential Monitoring Service. If any performance issues arise, dealers are alerted in real-time. Using the Groups feature, dealers can prioritize service for customers who pay for monthly monitoring services.

MyCrestron Residential Monitoring Service is available to dealers at no charge.



# HOMEelements

Home Elements is a toolkit that makes it faster and easier to setup video distribution and other standard system functionality. It's a template of pre-tested modules that provide the building blocks of core functionality for most systems. This gets a basic system up and running faster and more reliably. Since all the primary functionality is done and validated, programmers can focus their talents and efforts on adding customized features and automation using the same familiar tools they always have. Home Elements is a great opportunity for dealers, CSPs, and ultimately end users.

## Amazing New User Experience

The Home Elements toolkit also ties into VT Pro-e to provide amazing new user experience across all TSW touch screens, iOS® devices TSR-302 and MLX-3 remotes, and our latest Digital Graphics Engines. Practically without any effort, programmers can deliver dynamic drop down and slide out windows that display scrolling lists. The clean, easy to use, consistent UI is the touch screen experience clients really want.

## Home Elements + Pyng Technology

The Home Elements toolkit was developed in conjunction with Pyng technology to allow dealers to deliver the performance, scalability, and reliability of Crestron home automation without having to learn to use any new software. Start with Pyng to set up hundreds of wired and wireless devices right from the iPad®. Then drop Pyng controls into Home Elements to easily add DigitalMedia™ whole-home AV distribution with custom controls.





## Crestron Pyng® Luxury Home Automation Made Easier

Crestron Pyng technology enables set up and control of luxury home automation in just a few steps right from the iPad®. Technology integrators can rapidly create lifestyle scenes for each room, schedule events, and much more without ever opening a laptop. It also empowers homeowners to confidently make changes to their scenes, settings, and even system schedules with just a few taps on an iPad or touch screen.

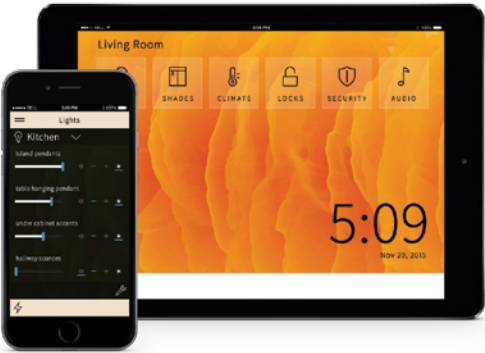


## Supports Hundreds of Products

Pyng technology supports the best in class Crestron technology found in the world's most prestigious homes, including our complete line of centralized and distributed lighting controls. Choose any wired or wireless Crestron dimmers, switches, and keypads, as well as touch screens, shade motors, thermostats, and sensors. Pyng technology makes it easy to deliver multi-room audio with streaming radio services, and streamlines set up of ONVIF cameras, door locks, security systems, ceiling fans, and more. Just add a **PYNG-HUB** to start pairing devices together and customizing scenes and settings.

## Amazing User Experience

Crestron Pyng technology ensures a spectacular user experience with GUIs that include dynamic dropdown and slide-out windows, and scrolling lists on all devices. Convenient source-sharing allows homeowners to share music throughout the home all from a single window without navigating among multiple pages. With just a few taps homeowners can browse a library of over 20 beautiful backgrounds and update every touch screen in the home.



## Cloud-based Monitoring and Analytics

Integration with the MyCrestron cloud provides a range of powerful benefits for integrators and homeowners. For example, dynamic system learning via the Pyng dashboard drives more personalized performance as well as energy savings. The built-in monitoring and management capabilities in Pyng enable integrators to provide more proactive, value-added service to ensure flawless performance and customer satisfaction.



The Crestron Pyng App is available as a free download through the iTunes® App Store®.

## Pyng-enabled Products

Crestron Pyng technology supports best-in-class, professional Crestron products backed by the best service in the industry:

### Audio

Pair with Autonomic® or Crestron streaming audio solutions, whole home distribution amplifiers, and speakers.

- › Stream your favorite music to any room or entire home
- › Easy source sharing



### Lighting

Choose from a complete selection of Crestron lighting control products, including:

- › CAMEO® dimmers, switches, and keypads
- › CLX universal dimmer modules
- › CAEN enclosures
- › DIN Rail products



### Shades

Crestron offers an unparalleled selection of designer fabrics and flexible hardware options for your customers. All shades are powered by the revolutionary Crestron QMT® brushless motors.



### Touch Screens

Add beautiful and powerful Crestron touch screens to home systems in minutes.

- › Supports latest TSW-552/752/1052 touch screens



## Thermostats

Crestron thermostats with Pyng technology ensure a more comfortable and energy-efficient home.

- Supports all CHV-THSTAT models



## Ceiling Fans

Pyng technology supports both wired and wireless ceiling fan controls.



## Door Locks

Pyng technology supports a wide selection of locks from leading manufacturers.

- Supported locks available directly from Crestron



## Security

Pyng technology supports select security systems, including wide range of Honeywell® Vista® security panels, and systems with an Ethernet expansion box.

- Security integration requires PYNG-CONNECT-COM Ethernet expansion box



## ONVIF Cameras

Pyng technology supports a complete selection of ONVIF IP-based security cameras.



## Occupancy Sensors

Crestron occupancy sensors with Pyng technology support “hands-free” automation and drive energy savings.



## Convenience is Key

Wireless door locks offer incredible convenience for the modern home. Featuring infiNET EX® wireless communications, they can be integrated with a Crestron® control system, allowing doors to be locked and unlocked from any touch screen in the house, or remotely using your computer or mobile device. Simply unlocking the front door can also turn on the lights, open the window shades, adjust the thermostat, and play your favorite music. Different users can be identified by their unique PIN codes, allowing you to **see when and by whom a door has been locked or unlocked**, and even receive a text or email when the kids get home or the cleaning crew has finished up.



Works with



## CLK-YL Yale® Wireless Door Locks

- › Stylish lever and deadbolt type door locks
- › Integrated infiNET EX® wireless communications
- › Touch screen, pushbutton, or key-free options
- › Illuminates for nighttime visibility
- › Remotely lock and unlock doors using touch screens, remotes, and mobile devices
- › View true feedback of door lock status and battery level
- › View event history and receive text alerts for each door
- › Manage user IDs and preferences easily
- › Create temporary user IDs for guests and service people
- › Receive alarms for low battery, tampering, and more
- › Runs one year on four AA alkaline batteries
- › Compatible with 2-Series and 3-Series® control systems
- › Integrates with lighting, shades, HVAC, security, and AV
- › Available in polished brass, bronze, and satin nickel finishes
- › Wireless door locks available in North America only.

# Wireless Door Locks

---



## **CLK-BD Baldwin® Wireless Door Locks**

- › Motorized deadbolt lock available in designer finishes
- › infiNET EX® wireless communications for easy integration into a Crestron® control system
- › Remotely lock and unlock doors using touch screens, remotes and mobile devices
- › Manual operation via keypad or key (depending on model).
- › View true feedback of door lock status
- › View event history and receive text alerts for each door
- › Receive alarms for low battery, tampering, and more
- › Runs one year on four AA alkaline batteries (not included)
- › Optional handleset kits (sold separately)
- › Wireless door locks available in North America only



## **CLK-KW Kwikset® SmartCode™** **Wireless Door Locks**

- › Motorized, wireless deadbolt with 10-button numbered keypad and additional one-touch locking button
- › inFiNET EX® wireless communications for easy integration with Crestron Connected® system
- › Remote locking and unlocking using touch screens, remotes, and mobile devices
- › Real-time feedback of door lock status
- › Event history logs and optional text alerts for each event
- › Easy management of user IDs and preferences
- › Up to 30 temporary user IDs for guests and service people that can be deleted at any time
- › Alarms for low battery, tampering, and more
- › SmartKey® three-step re-key technology
- › One year run time on four AA alkaline batteries
- › Lighting, shades, HVAC, security, and AV integration
- › Wireless door locks available in North America only

## Integrated Environmental Controls

Designing building management solutions that truly deliver on the promise to reduce energy consumption demands the use of **lighting, shade, and climate control products that can be accurately monitored, measured, and managed** in real-time under one platform. Crestron Green Light® encompasses a complete range of environmental control products engineered to provide **a total integrated solution for energy-efficient commercial buildings of every scale.**

## 3-Series® Native BMS Interface

The 3-Series Control System® with BACnet/IP support provides a scalable, IP-based platform for implementing fully-integrated building management and automation. Integrated control of lighting, shades, HVAC, AV, BMS, security, IT, and other connected systems is now faster, simpler and more efficient than ever. **Built-in BACnet/IP support enables seamless integration with existing building management systems.** All systems run independently and communicate with each other on the same platform, creating a truly smart building.

Crestron 3-Series control systems may also be custom programmed to integrate with other popular building management protocols including LonWorks® and ModBus®.



## Reliable, Accurate Energy Measurement

As the old adage goes, you can't manage what you don't measure. We'll go one further: **you can't manage reliably what you don't measure accurately.**

The Crestron Green Light® Power Meter Control Unit (GLS-EM-MCU) measures both voltage and current at the incoming electrical service and individual branch circuits to **provide complete and accurate real-time data for use in assessing power usage** and employing energy-saving strategies. By design, the GLS-EM-MCU integrates with Crestron Fusion® software to monitor and manage lighting and other devices throughout a building to **achieve real, meaningful control over energy consumption.**



## GLS-EM-MCU Power Meter Control Unit

- › Provides power metering across three phases (main legs)
- › Compatible with 100-347 Volt, split and 3-phase systems
- › Also allows power metering for up to eighty-four individual branch circuits
- › Works with GLS-EM-CT and GLS-EM-CTI current transformers and interfaces
- › Measures and logs RMS voltage, current, and active power
- › Reports data via a control system to Crestron Fusion® software
- › Allows real-time power monitoring on a touch screen, computer, or mobile device
- › Internal non-volatile memory reliably stores logged data

## Control Every Light Source

The DALI® standard allows individual lighting fixtures in an open office or classroom to be controlled independently through simple low-voltage wiring. Crestron Green Light solutions for DALI interfaces and software simplify DALI system commissioning and routine maintenance, facilitating setup of fixture addresses and groups, and making ballast replacements easier.

The DIN-DALI-2 is a DALI® interface for Crestron systems providing control of up to 2 individual DALI loops. Housed in a DIN-rail enclosure, the DIN-DALI-2 is a great low-profile Cresnet® or Ethernet companion to any 3-Series Control System®.

In addition to controlling the DALI data bus, it includes an integrated DALI power supply. The single-wire connectivity simplifies both new and retrofit installations, and Power-over-Ethernet (PoE) versatility assists in situations with existing CAT5 infrastructure.



## DIN-DALI-2 2-Channel DALI® Interface

- › Two independent DALI channels
- › Controls up to sixty-four ballasts per channel
- › Cresnet® or Ethernet communications
- › PoE or Cresnet powered
- › Integrated DALI power supply
- › Override input
- › Easy setup using Crestron commissioning software for DALI
- › 9M wide DIN rail mounting

## Single-Channel Lighting Control for DALI® Loads

The GL-EXP-DALI series enables the **expansion of a DALI lighting system to include a single, non-DALI switched or dimmed load** of 120, 230, or 277 Volts up to sixteen Amps. The GL-EXP-DALI series expansion modules accomplish this by taking DALI commands and changing them for a non-DALI load. This way, a non-DALI load can integrate into an existing DALI system **without the need for an additional, larger control module** or long runs of wire to connect the load to a far-off control source.



## GL-EXP-DALI Series Crestron Green Light® Expansion Modules with DALI®

- › Module for incorporating one non-DALI load into a pre-existing DALI lighting system
- › Series includes models for universal dimming, dimming, 3-wire dimming, 0-10V dimming, and switching
- › Local user interface with LED display for easy setup
- › Compatible with 120V, 230V and 277V AC systems
- › Output supports 16A of dimmed or switched load
- › Module runs off 120V to 277V AC line power
- › Built-in air gap relay at the output
- › Mounts to a wall or above a suspended ceiling

## Adding a Lighting Zone is Easy

The GL-EXP-CN series is composed of independent expansion modules controlled by Cresnet that provide **one channel of lighting control for dimmed or switched loads** of 120, 230, or 277 Volts up to sixteen Amps. The GL-EXP-CN series is perfect for adding an extra lighting zone into a Crestron control system, **cutting out the need for a larger, more expensive control module or lighting cabinet.**



### GL-EXP-CN Series

#### Crestron Green Light® Expansion Modules with Cresnet®

- › Module for incorporating one load into a pre-existing Crestron lighting system
- › Series includes models for universal dimming, dimming, 3-wire dimming, 0-10V dimming, and switching
- › Supports both forward and reverse phase load types
- › Auto load detection mode
- › Cresnet communications
- › Local user interface with LED display for easy setup
- › Compatible with 120V, 230V and 277V AC systems
- › Output supports 16A of dimmed or switched load
- › Reduced lamp flicker through zero-cross filtering
- › Built-in air gap relay at the output
- › Override preset capability
- › Module runs off 120V to 277 AC line power
- › Mounts to a wall or above a suspended ceiling

## Powerful and Flexible LED Dimming

Using the DALI® protocol, Crestron LED drivers can share operational data and control the output of individual luminaires at the same time. Multiple drivers can be daisy-chained using low-voltage wiring for power on/off and dimming control. Up to sixty-four fixtures can exist on a single DALI channel, each operating independently. This supports sustainable design principals such as daylight harvesting and occupancy sensing and enables proactive, easy maintenance.



## GLD-DALI-LED DALI® Crestron Green Light® Dimmable LED Drivers

- › Programmable, dimmable, high-power LED drivers
- › DALI® controllable (0-10V also available)
- › Superior, smooth dimming to below 1%
- › Excellent color stability, even at low dimming levels
- › Linear or logarithmic dimming curve
- › High efficiency over a wide power and voltage range
- › CREScode™ programmable for use with a wide variety of LED fixtures
- › Lowers costs by reducing inventory requirements
- › Multiple outputs with independent LED current settings
- › 2-channel models support tunable white lighting and direct-indirect fixtures
- › NTC interface for robust thermal management
- › Available in long or short case form factors
- › Compatible with 120V, 230V, and 277V AC systems
- › Available 50W and 100W models

## Single Room Lighting Control – Packed with Power Saving Features

Without requiring any programming, Crestron Power Packs deliver **affordable room lighting control with the essential features for reducing energy usage**. Available with up to three channels of switching or 0-10V dimming, each GLPP model includes inputs for a photosensor and occupancy sensor to control lighting levels automatically based on the amount of natural light and the presence of people in the room. The dimming models also include **built-in power monitoring to track energy usage in real time**, providing accurate metrics to assess real power savings.



### GLPP Crestron Green Light® Power Packs

- › Affordable lighting control, no programming required!
- › Works in 120 to 277VAC systems
- › 1, 2, and 3 channel models available
- › Switched and 0-10V dimming models available
- › Adaptive zero-cross switching for extended life
- › Supports lighting control based on room occupancy
- › Supports daylight harvesting
- › Real-time power monitoring on dimming models
- › Easy setup and operation via handheld remote
- › Supports up to two wall mount keypads
- › Easy keypad wiring using existing switch-loop wiring
- › Standalone operation, linkable to a central control system via Cresnet® (wired) or infiNET EX® (wireless)
- › Available in North America only

## Cost-Saving Lighting Control for Large or Multiple Rooms

The GLPAC offers **0-10V dimming for up to four rooms with built-in energy management features** including occupancy sensing, daylight harvesting, and optional power monitoring. A single GLPAC controls up to eight channels of dimmable fluorescent or LED lighting fixtures across up to four rooms without any complicated programming. Cresnet® and Ethernet connectivity afford extensive system configuration using keypads, touch screens, shade controllers, and more.



## GLPAC Crestron Green Light® Integrated Lighting Systems

- › Works in 100 to 277VAC systems
- › Provides four or eight channels of 0-10V dimming
- › 16 Amp load rating per channel
- › Phase-independent channels
- › Positive air gap at each output
- › Fully programmable control system on board
- › Preloaded program for quick setup
- › Built-in Web-based setup wizard
- › Supports keypad control, occupancy sensing, and daylight harvesting for up to four rooms
- › Optional real time power monitoring per channel
- › Local controls for setup, testing, and verification
- › Local and remote override capability
- › Non-volatile power failure memory
- › Local and slave Cresnet ports
- › High-speed Ethernet LAN port

## Easy, Scalable Lighting Control System

Out of the box, the GL-IPAC-SW8 provides lighting control for 8 switched circuits. Its **built-in IPAC control system affords expansion to support up to sixty-four circuits** with no additional programming. It can also support keypads, occupancy and photosensors, and time clock automation with setup provided through its LCD front panel. Network connectivity enables integration as **part of a complete building management system**.



## GL-IPAC-SW8 Crestron Green Light® Integrated Switching System

- › Eight internal circuits for switched loads
- › Expandable to control up to sixty-four circuits of switched load
- › Supports 100 to 277 Volt applications
- › Sixteen Amp load rating per channel
- › Built-in astronomical time clock
- › Positive air gap at each output
- › Phase-independent channels
- › Local controls for setup, testing, and verification
- › Local and remote override capability
- › Non-volatile power failure memory
- › Easy access is facilitated from the hinged front cover



## In-Wall Integrated Room Lighting and Shade Controller

Crestron iLux® provides a **versatile, energy-saving wall mount lighting controller for boardrooms, auditoriums, and custom theaters** with six dimmable lighting zones and six motorized shade control zones. Multiple units can be linked to handle larger rooms and multi-room applications. Support for occupancy sensors and photosensors enables localized energy management functionality. Wired or wireless **control system integration allows for room-combining, facility-wide integration, and centralized energy management** using Crestron Fusion® software.



### CLS-C6 Series iLux® In-Wall Lighting Systems

- › 6 channels of dimming or switching
- › 6 groups of shade and drape control
- › Linkable for large rooms and multi-room applications
- › Front panel controls with customizable labeling
- › Easy setup from front panel or iLux Designer software
- › Add-on keypads, touch screens, and IR remote
- › Supports occupancy sensors and photosensors
- › Supports Cresnet® occupancy sensors and shades
- › Optional integrated motion sensor
- › Integrates with control systems via Cresnet® or infiNET™
- › Expanded load type support via CLS-EXP modules
- › Available in white, black, or almond

## Communicating Thermostats

From updating a conventional thermostat for essential HVAC integration, to managing commercial-grade environmental systems in the most high-tech estate or high-rise MDU, Crestron gives you more ways to interface with climate control systems as part of a total home control and energy management solution.



Works with



### CHV-TSTATEX

#### Wireless Thermostat With infiNET EX®

- › Heat/cool thermostat for baseboard, forced air, and heat pump HVAC systems
- › FCU (Fan Coil Unit) versions available for hotel room applications
- › Crestron system integration via infiNET EX wireless network – no extra wires required
- › Saves on energy costs with advanced programming abilities
- › Supports two remote temperature sensors
- › Fail-safe mode allows continuous operation if control system goes offline
- › Large backlit LCD display
- › Available in white, black, or almond



Works with



## CHV-TSTAT & CHV-THSTAT Thermostats

- › Heat/cool thermostats with optional humidistat
- › Cresnet® wired control system interface
- › Supports two remote temperature or humidity sensors
- › Large backlit LCD display
- › Available in white, black, or almond



### 3-Series® providing BACnet/IP Support (SW-3SERIES-BACNET)

In a high-rise complex or luxury home employing commercial grade HVAC equipment, BACnet can be utilized to provide a seamless interface to the Crestron system. With **BACnet/IP support built into every 3-Series Control System®**, there's no need for a separate gateway or protocol translator.

Native support for the BACnet/IP communication protocol provides **a direct interface to third-party building management systems over Ethernet**, simplifying integration with HVAC, security, fire & life safety, voice & data, lighting, shades, and other systems. Using BACnet/IP, each system runs independently with the ability to communicate together on one platform for a truly smart building.

## Occupancy and Ambient Light Sensing

A total energy management solution requires **automation of lighting, HVAC, shades, AV and other equipment** in response to the changing conditions in a room. Crestron Occupancy Sensors provide reliably detect when a room is vacant or occupied, allowing lights and AV equipment in the room to be shut off and climate control turned down when they're not needed. Photosensors support daylight harvesting, an energy-saving practice in which shades and lighting are adjusted to maximize on the available natural and ambient light.

Occupancy sensors with **Cresnet® and infiNET EX®** offer **easier integration and faster installation**. Cresnet wired networks provides power and communication for multiple daisy-chained sensors while infiNET EX networks offer an effective and economical wireless solution.

GLS-ODT-C-CN



GLS-OIR-C-CN



### **GLS-ODT-C-CN** Dual-Technology Occupancy Sensor With Cresnet®

- › Ceiling-mount occupancy sensor
- › Dual-technology motion detection
- › 360 degree, 2000 square feet (185 square meters) coverage
- › Discreet, low-profile appearance
- › Extremely accurate and reliable sensing
- › Fully digital circuitry for low cost and high reliability
- › Built-in ambient light recognition
- › External photosensor input eliminates the need for a GLS-SIM
- › Grace Occupancy feature
- › **GLS-OIR-C-CN** passive infrared model also available

GLS-ODT-C-NS



GLS-OIR-C-NS



## **GLS-ODT-C-NS**

### **Dual-Technology Ceiling Mount Occupancy Sensor**

- › Ceiling-mount occupancy sensor for standalone lighting systems
- › Dual-technology motion detection
- › 360 degree, 2000 square feet (185 square meters) coverage
- › Works with GLPP, GLPAC, and GL-IPAC-SW8
- › Discreet, low-profile appearance
- › Extremely accurate and reliable sensing
- › Fully digital circuitry for low cost and high reliability
- › Connects via a Versiport or digital input port
- › Optional Cresnet® interface using GLS-SIM
- › Grace occupancy feature
- › Also available, **GLS-OIR-C-NS** passive infrared model



Works with



## **GLS-OIR-CSM-EX-BATT**

### **Battery-Powered infiNET EX® Occupancy Sensor**

- › Surface mount, no holes to cut or drill
- › Passive infrared motion detection
- › 360 degree, 500 square feet coverage (45 square meters)
- › 9 Volt battery powered
- › Control system integration via infiNET EX wireless network
- › Discreet, low-profile appearance
- › Grace occupancy feature

# Lighting & Energy Management

---

GLS-LCL



GLS-LOL



## **GLS-LCL & GLS-LOL**

### **Crestron Green Light® Photosensors**

- › Measure ambient light level from all available light sources
- › Versatile flush or surface mount options
- › 0-10 Volt DC analog control output
- › Optional Cresnet® control interface via GLS-SIM

## **GLS-LEXT**

- › Crestron Green Light® Photosensor, Outdoor
- › Wall mount photosensor
- › Measures the outdoor light levels
- › Weatherproof with visor for protecting lens



## **GLS-LDL-EX-BATT**

### **Battery-Powered Photosensor with infiNET EX®, Dual-Loop**

- › Dual-loop, battery-powered photosensor for ceiling or surface mounting
- › infiNET EX communications for easy integration into a complete wireless lighting control solution
- › Measures light level from natural daylight and ambient light sources
- › 10-year battery life via two Lithium Ion AAA battery
- › Local button lets users easily commission and calibrate the daylight harvesting system
- › Visible LED display to indicate sensor status
- › Sleek, compact design



## DIN Rail Lighting & Automation

Squeeze the most out of small spaces with DIN rail lighting products. Great for boardrooms, classrooms, condominiums and custom theaters, DIN rail modules deliver **integrated lighting and motor control at the best price per square inch**. In addition to lighting and motor control, our complete DIN rail line **includes two powerful 3-Series® control systems**, a DALI® interface, several versatile control interfaces, and Cresnet® distribution solutions.

### DIN Rail Modules



**DIN-AP3** DIN Rail 3-Series®  
Automation Processor



**DIN-AP3MEX** DIN Rail 3-Series®  
Automation Processor with infiNET  
EX® & ER Wireless Gateway



**DIN-DALI-2** DIN Rail  
2-Channel DALI® Interface



**DIN-1DIM4** DIN Rail  
4-Channel Dimmer



**DIN-1DIMU4** DIN Rail  
Universal Dimmer



**DIN-4DIMFLV4** DIN Rail 0-10V  
Dimmer Module

# Lighting & Energy Management

---

---

## DIN Rail Modules (continued)

---



DIN-8SW8 DIN Rail High-Voltage Switch



DIN-8SW8-I DIN Rail High-Voltage Switch with Digital Inputs



DIN-A08 DIN Rail Analog Output Module



DIN-I08 DIN Rail Versiport Module



DIN-2MC2 DIN Rail Motor Control



DIN-HUB DIN Rail Cresnet Distribution Hub



DIN-BLOCK DIN Rail Cresnet Distribution Block



DIN-CENCN-2 Ethernet to Cresnet® Bridge



DIN-PWS50 DIN Rail 50 Watt Cresnet Power Supply





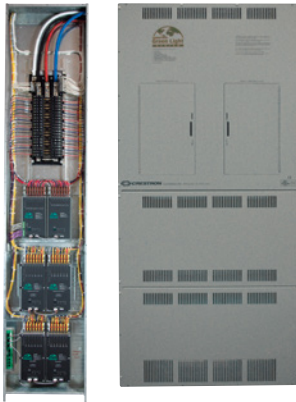
## DIN Series DIN Rail Enclosures & Modules

- › Metal enclosures available with two, three, or six 18U rails
- › DIN-AP3 3-Series® Automation Processor features onboard control ports, Cresnet®, Ethernet, and BACnet/IP support
- › DIN-AP3MEX features Cresnet, Ethernet, BACnet/IP support, and built-in infiNET EX® wireless gateway
- › DIN-DALI-2 2-Channel DALI® Interface controls 128 DALI ballasts
- › 4-channel dimming available for most load types
- › Zero cross filter technology
- › 8-channel high-voltage switching available for non-dimmable loads
- › 2-channel bidirectional motor control
- › Support for 120 to 240 Volts
- › Override input capability
- › Versiport and 0-10V analog output control modules
- › Cresnet power supplies, hub, and distribution block modules

## Central Lighting Control Cabinets

Crestron Green Light® Architectural Dimming (GLPD) systems offer **the very best in lighting control**. Designed for demanding commercial environments including office buildings, meeting and convention centers, museums, and restaurants, Green Light Architectural Dimming delivers precise dimming control coupled with ultra reliable hardware.

Green Light Power Switching (GLPS) systems provide robust switching for warehouses, parking garages, courtyards and retail spaces. Green Light Express (GLPX) encompasses a variety of cost-effective, space-saving feed-thru cabinets with a choice of relay and dimmer types and **optional built-in IPAC control processor**.



### **GLPD Crestron Green Light® Architectural Dimming**

- › 120 or 277 Volt 2-wire, 3-wire, MLV, and 0-10V dimming & switching
- › Phase-synchronous detection zero-cross filter technology
- › Up to sixty circuits per panel
- › Integrated branch circuit breakers
- › Optional main circuit breaker
- › Feed-thru cabinets available
- › Field-replaceable lighting modules
- › Remote emergency override capability
- › UL924 listed (emergency power equipment)
- › Available main and branch circuit power metering using GLS-EM-MCU

## **GLPS** Crestron Green Light® Power Switching

- › 120 and 277 Volt switching
- › Optional zero-cross arcless switching
- › Available 0-10V fluorescent dimming
- › Up to fifty-six circuits per panel
- › Integrated branch circuit breakers
- › Optional main circuit breaker
- › Field-replaceable lighting modules
- › Remote emergency override capability
- › Available main and branch circuit power metering using GLS-EM-MCU



## **GLPX** Green Light Express® Dimming & Switching

- › 120 or 277 Volt 2-wire, 3-wire, MLV, and 0-10V dimming & switching
- › Optional zero-cross arcless switching
- › Available 120/208, 277/480, and 230/400 volt 3-phase switching
- › Up to eighty-four circuits per cabinet
- › Feed-thru type panels
- › Field-replaceable lighting modules
- › UL924 listed (emergency power equipment)
- › Available main and branch circuit power metering using GLS-EM-MCU
- › Optional built-in IPAC control processor



## **CAEN** Automation Enclosures

- › Combined dimming, switching, fan, and motor control for residential applications
- › Configurable using CLX Series lighting control modules
- › Up to one-hundred-twelve controlled circuits per panel
- › CAEN-MLO models allow up to twenty breakers per panel



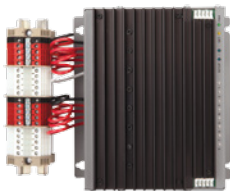
## Universal Dimmer Modules

Crestron Universal Dimmer Modules are compatible with virtually every type of lighting fixture. They support both forward- and reverse-phase dimming of LED, incandescent, magnetic low-voltage, electronic low-voltage, and 2-wire dimmable fluorescent lighting loads.



### **CLX-1DIMU4** 4 Channel Universal Dimmer Module, 1 Feed

- › Provides 4 channels of dimming for both forward- and reverse-phase modes
- › Constant Power dimming technology and zero-cross filtering
- › Customizable load curves for maximum compatibility
- › Auto-load detection mode
- › 120 Volt feed
- › Air-gap relays on every channel output



### **CLX-2DIMU8** 8 Channel Universal Dimmer Module, 2 Feeds

- › Provides 8 channels of dimming for both forward- and reverse-phase modes
- › Two independent 4 channel dimmers in a single module
- › Constant Power dimming technology and zero-cross filtering
- › Customizable load curves for maximum compatibility
- › Auto-load detection mode
- › Dual or single 120 Volt feed
- › Air-gap relays on every channel output

## In-Wall Wireless Dimmers & Switches

# CAMEO®

Cameo® dimmers and switches offer direct control of individual lighting circuits in an attractive wall plate form factor.

**Robust wireless networking via infiNET EX®** enables integration with a central control system without running any extra wiring, providing an ideal upgrade for rooms with existing wall plate dimmers and switches — including 3-way and 4-way circuits. An integrated system **allows every lighting load to be centrally controlled and monitored** as part of a building-wide energy management solution.

Cameo dimmers and switches can also function as keypads, allowing for **customizable control over whole-room lighting scenes, AV, and other room functions.**



## CLW-DIMEX-P, CLW-SWEX-P, CLW-DELVEX-P Cameo® Wireless In-Wall Dimmers & Switches

- › 120V, 230V, and 277V versions available
- › Support for incandescent, tungsten halogen, electronic low voltage, magnetic low voltage, and dimmable 2-wire fluorescent load types
- › Available in twelve Cameo colors and finishes
- › Field replaceable and engravable buttons
- › infiNET EX® wireless communication
- › Dimmers configurable with up to four buttons
- › Switches configurable with two buttons or rocker
- › Screw-clamp connectors for easier installation
- › White LED feedback indicators
- › Stylish bargraph for real-time status feedback
- › Remote dimmers and switches available for
- › 3- or 4-way functionality
- › Available **CLW-DIMSWEX-P** provides combo dimmer and switch in one device

Works with



## Wireless Integrated Lamp Control

**Even plug-in type lamps and fixtures can be monitored and controlled** using Crestron lamp dimmers and switches.

Wireless communications provide an easy path to integration with a central energy management system.



Works with



## CLW-LDIMEX & CLW-LSWEX

### Wireless Lamp Dimmers and Switches

- › Control system integration via infiNET EX® wireless network
- › Plugs into a 120 Volt AC receptacle
- › Single and dual channel models available
- › Available in North America only



## CLF-LDIMUEX

### Wireless Lamp Dimmer

- › Compact universal lamp dimmer for 120 Volt AC lighting loads
- › Reliable wireless communications using infiNET EX® technology
- › Simple inline installation
- › Optional control of the dimmer via the lamp switch
- › Maximum 250 W/VA load capacity
- › Auto-load detection mode



## **CLC-FANDELVEX**

### Wireless Ceiling Fan Controller

- › Canopy module
- › 4 speed fan control
- › Reverse phase dimming
- › Mounts in the fan canopy
- › No rewiring required



## **CLC-1LEDPWM-RGBW-EX**

### RGBW LED Controller

- › Four channels of RGBW color mixing for LEDs
- › Multiple white hues
- › Configurable PWM for flicker-free performance
- › Over-current protection
- › infiNET EX wireless communications

## International In-Wall Lighting Controls

Provide high-quality **universal dimming, switching, and keypad control for international 230VAC applications.**

Robust infiNET EX® wireless communication eliminates the need for any dedicate control wiring. Battery-powered keypads enable control of lighting, AV, and other functions with absolutely no wiring or boxes needed.



## CLWI Series International In-Wall Dimmers, Switches, & Keypads

- › 230V operation
- › UK and Euro electrical box mountable
- › Universal phase dimmers, with or without neutral wire
- › 0-10V dimming control
- › Single or dual channel switching control
- › Remote controllable via third-party switches and contact closures
- › Programmable keypads for control of AV, lighting, and other functions
- › Configurable with up to six field-replaceable buttons
- › More than 15 faceplate finishes available
- › Optional custom button engraving
- › White LED feedback indicators
- › Bargraph display of dimming or volume levels
- › infiNET EX® wireless communication
- › Keypad models available with Cresnet® wired communication
- › **CLWI-KPLEX-BATT** battery-powered wireless keypad
- › Screw-clamp connectors for easy installation
- › Available in anthracite or white finishes

Works with







## Beautiful Performance for Every Room

Crestron motorized window treatments add beauty, convenience, and comfort throughout the home. Whether you are looking for roller shades, Roman shades, skylights, draperies or a combination, Crestron has every window treatment you need. Adjust your shades or drapery with one touch of a keypad, touch screen, or mobile device. You can even set your window treatments to adjust automatically to help conserve energy throughout the day.

**Roller Shades:** Crestron Roller Shades are ideal for a flat, clean look or in conjunction with more decorative draperies. Roller shades are available in widths up to 15 feet to meet the requirements of any project. Dual-roll configurations are also available.

**Roman Shades:** The distinctive folds of Roman shades make them a stunning focal point in any room. With Crestron Roman shades there is no need for manual adjustments, the folds always remain neat and balanced as the shades are raised and lowered.

**Skylight Shades:** Crestron Skylight Shading Systems decrease glare and provide year-round energy efficiency, reducing heat gain in the summer and heat loss in the winter. The innovative tensioning system adjusts automatically to keep shades taut across longer spans and operating smoothly in windows and skylights that are on an incline.

**Drapery:** Crestron Drapery Systems control pinch pleat, Ripplefold, and Accordia-fold drapery styles on straight tracks using Crestron drapery motors.

Please Note: Crestron Shading Solutions available in North America only

## QMT®3 Series Hardware

- › Easily adjustable brackets for small pockets and shallow window jambs
- › For shades 17.5 inches up to 8 feet wide
- › Single and double rolls
- › Decorative Architectural fascia and pockets available
- › Modern Décor end caps available in a variety of finishes

## QMT®5 Series Hardware

- › Easily adjustable brackets for standard to larger openings
- › For shades 17.5" inches up to 12 feet wide
- › Supports heavier fabrics
- › Single roll, dual roll, coupled, and new angled coupled systems
- › Decorative Architectural fascia and pockets available
- › Modern Décor end caps available in a variety of finishes



## Digital QMT® Shade and Drapery System Motors

Crestron Roller Shade and Drapery System Motors are powered by our exclusive Quiet Motor Technology™, providing you with precision control and ultra-quiet performance backed by our lifetime warranty.

Works with



- › QMT delivers nearly imperceptible operation
- › Industry-first brushless design eliminates carbon dust that causes failure in conventional motors
- › Built-in Cresnet® wired or inFINET EX® wireless communications
- › Fully integrated design, with no external modules required
- › 24 Volt low-voltage power
- › Provides real-time activity and status feedback to processors
- › Local pushbutton interface for testing and setting limits
- › Local diagnostic LEDs to indicate status
- › Smooth starts and stops with programmable stop points
- › Detects and reacts to obstructions in shade path to avoid motor damage
- › Lifetime Warranty

### Intelligent Shading Power Supply

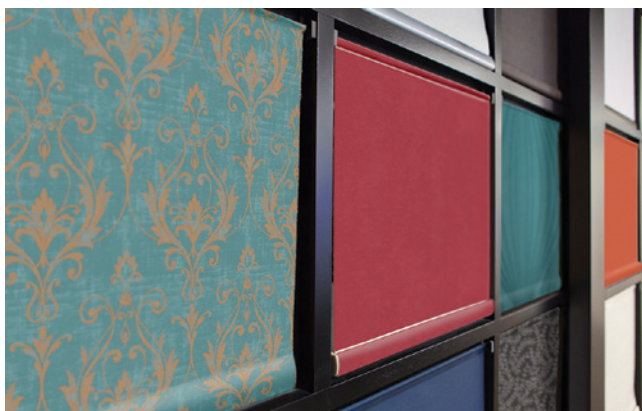
The CSA-PWS10S-HUB power supply provides support for up to ten Crestron QMT Motors and features a built-in, 5-segment hub with network diagnostics capabilities. Local controls and indicators allow for easy testing of shade and drapery limits without connecting to a control system. The CSA-PWS10S-HUB is convection cooled for silent operation and can be surface mounted. It is also available pre-assembled in a CAEN-1X1 enclosure for surface or recess wall mount installation.



### CSA-PWS10S-HUB

#### 10-Motor Power Supply and Cresnet® Hub

- › Ethernet or Cresnet connectivity
- › Improved broken wire detection
- › Remotely cycle power on each output
- › All electronic over-current protection (no fuses to replace)



## Crestron Shade Fabric Collection

The Crestron fabric library is second to none, offering hundreds of fabric selections for every type of automated window treatment. Fabrics are available in transparent, translucent, room darkening, and blackout materials to insure you find the perfect balance of style and function.

The Designer Collection offers homeowners a spectacular assortment of fashion-forward patterns and colors handpicked by interior designers.

The Heritage Collection consists of highly functional fabrics in classic neutral colors that are perennial favorites of both designers and homeowners.

The Crestron Shade Fabric Binder (**CSF-SB-ROLLER**) provides samples of all the latest fabrics in the Crestron library. It is a must-have sales tool to help homeowners select their Crestron window treatments.

When you are ready to request your own fabric samples, visit [shop.crestron.com](http://shop.crestron.com). As a one-stop resource for all things fabric, you can search our entire fabric collections, identify current and discontinued fabrics, request fabric samples, and register binders.



### **Crestron Hartmann&Forbes® Collection**

This exclusive collection of hand-woven textiles designed for Crestron roller shade systems are created for individuals who appreciate the benefit of handcrafted products created by artisans with a meticulous eye for detail. Each custom weave brings a natural warmth, elegance and refinement to any room.

All Hartmann&Forbes shades are hand-loomed for each window and can be seamlessly woven up to 180" wide. Handcrafted valances are also available in matching or complementary textiles to elegantly conceal the shade motor components.



Order the Crestron Hartmann&Forbes Collection sample box (**CSF-SB-ROLLER-HF**) to inspire customers to choose the most luxurious shades available.

## CAM:EO®

### Beautiful, Functional, Configurable

Crestron Cameo® is a favorite keypad choice for all types of lighting and AV control applications. The choice of wired or wireless connectivity allows **easy, flexible installation in both new and existing structures**. Wired versions also provide a local interface for occupancy sensors and photosensors as part of a total energy management solution.



### INET-CBDEX-P Cameo® Wireless Keypads

Works with



- › Available in all twelve Cameo colors and finishes
- › Configurable with up to eight backlit engravable buttons
- › Optional “split-buttons” in bottom two positions
- › Auto-dimmable backlight and LED intensity
- › White LED feedback indicators
- › Built-in blinking and bargraph logic
- › inINET EX® 2-way RF wireless communication
- › Standard wall box mountable
- › 120V, 230V or 277V AC line powered

### C2N-CBD-P Cameo® Keypads, Standard Mount

- › Same features as Cameo Wireless Keypads except:
- › Cresnet® wired communication and power
- › Dual Versiport interface for external sensors
- › Compatible with Ascent® metal faceplates

## Full Functionality, Tiny Footprint

For architects looking for a **more subtle stylistic approach to providing lighting and AV control**, Crestron offers Cameo® Flush Mount Keypads. The design that earned Cameo its name, these tiny keypads offer the same full-sized configurable buttons and other features as standard mount Cameos in approximately 1/3 of the space.



### C2N-CBF-P

#### Cameo® Keypads, Flush Mount

- › Incredibly small footprint and slim profile
- › Available in five Cameo textured colors
- › Compatible with Ascent® metal faceplates
- › Configurable with up to eight backlit engravable buttons
- › Optional “split-buttons” in bottom two positions
- › Auto-dimmable backlight and LED intensity
- › White LED feedback indicators
- › Built-in blinking and bargraph logic
- › Cresnet® wired communication and power
- › Dual Versiport interface for external sensors

## Modern Design Meets Modern Function

Even the most luxurious or contemporary interior is a perfect candidate for Cameo® keypads. Ascent® faceplates bring high-style to any Cameo wired keypad in seven **lustrous metallic finishes designed to appeal to the most demanding architect or executive.**



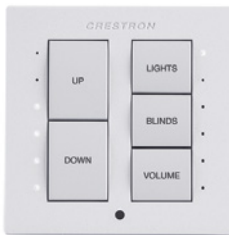
## **CBD-FP-ASCENT & CBF-FP-ASCENT** Ascent® Solid Metal Faceplates for Cameo® Keypads

- › Choice of seven luxurious colors and finishes
- › One-piece solid metal bezel
- › Exceptional fit and finish
- › Mix and match with any color buttons
- › Multiple cutout designs and button configurations
- › Models available for Cameo Standard Mount and Flush Mount keypads



## Cameo® Style for International Wall Boxes and Lecterns

These flexible keypads are designed for installation in UK and European style wall boxes, and can also be mounted into furniture without requiring a backbox. Optional architectural faceplates offer a metallic accent for a sophisticated appearance.



### C2NI-CB Cameo® International Keypads

- › UK/European style electrical box installation
- › Flush mountable without a backbox
- › Available in textured almond, black or white
- › Architectural faceplate options available
- › Versatile pushbutton combinations
- › Customizable backlit button engraving
- › White LED feedback indicators
- › Built-in LED blinking and bargraph logic
- › Auto-dimmable backlight and LED intensity
- › Two contact closure inputs
- › Cresnet® wired communication and power

# Keypads

## Low-Cost, High-Function

Provide essential control over AV, lighting, and other functions in these six, eight, or twelve button Decorator Keypads.



## C2N-DB Decorator Keypads

- › Available in smooth almond, black, and white
- › Match off-the-shelf decorator style faceplates
- › Available in six, eight, and twelve button configurations
- › Replaceable, custom-engravable buttons
- › Programmable feedback LEDs
- › Cresnet® wired communication and power

## Big Buttons, Bold Appearance

Crestron Designer Keypads deliver enhanced functionality in an attractive wall plate design featuring extra large buttons and optional backlighting.



Shown w/3-gang Designer  
faceplate option



Shown w/Architectural  
faceplate option

## CNX-B Designer Keypads

- › Elegant design with large buttons
- › Gangable up to three side-by-side
- › Available in five textured colors
- › Designer and Architectural faceplate options
- › Available in two, four, six, eight, and twelve button configurations
- › Replaceable, custom-engravable buttons
- › Programmable feedback LEDs
- › Backlit button option
- › WAV file audio feedback
- › Cresnet® wired communication and power

## On-The-Spot Control

Put control right where you need it with this wireless, battery-powered, 2-button keypad controller. On a hotel room nightstand, boardroom conference table, or anywhere in the home, the HTT-B2EX-BATT provides **simple, convenient, and reliable control** for all types of applications from lighting and shades to AV presentation.



Works with



### HTT-B2EX-BATT Battery Powered infiNET EX® 2-Button Wireless Keypad

- › Engraved buttons available (shipped with unit)
- › Ultra-reliable infiNET EX wireless communication
- › Runs for five years on a user-replaceable Lithium battery
- › Low-profile and compact — just 2-3/4" (70 mm) diameter
- › Completely portable — no wires to connect
- › Optional tethered model prevents removal from hotel rooms
- › Available in white or black



Works with



### HTT-B10EX TableTop Keypad with infiNET EX®

- › Ten engravable, backlit buttons
- › White LED feedback indicators
- › infiNET EX® wireless communications
- › Powered by batteries or external power pack
- › Wakes instantly when touched or picked up
- › Auto-dimmable backlight and LED intensity
- › Available in black or white

# Touch Screens & Remotes

---

Control any room, the entire home or facility, conveniently from any of our beautiful, stylish touch screen or remote control. With such a wide selection for you to choose from, you're sure to find the perfect piece to meet your needs and complement any space.



TSW Capacitive Touch Screens



Large Format HD Touch Screens



Smaller Format Touch Screens



Scheduling Panels



Handheld Touch Screens



Handheld Remote Controls

## Silky Smooth and Packed with Power

The new TSW-552, 752 and 1052 offer powerful Smart Graphics™ in **a choice of three, space-efficient surface mount designs. Each features an edge-to-edge capacitive touch surface**, H.264 streaming video, Rava® SIP intercom, and single-wire PoE connectivity.



Works with

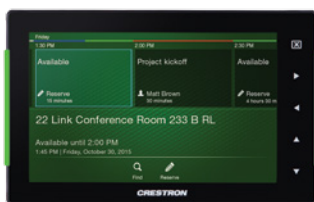


## TSW-552, TSW-752, TSW-1052 Touch Screens

- › Ultra clean, modern appearance
- › Thin profile and small footprint
- › Affordable and easy to install
- › 5", 7", and 10" widescreen color displays
- › Smart Graphics™
- › Capacitive touch screen technology
- › High-performance H.264 streaming video
- › Rava® SIP intercom and phone technology
- › Customizable audio feedback
- › Voice recognition capability
- › Built-in web browsing
- › Multi-language on-screen keyboard
- › Customizable screensaver
- › Built-in microphone and speakers
- › 5 soft-touch capacitive buttons
- › Single-wire Ethernet connectivity
- › PoE network powered
- › Universal mounting bracket option
- › Available tabletop and flush wall mount options
- › Available in black or white finish

## Room Scheduling with Style

The TSS-752 marries the sleek style of Crestron TSW Series touch screens with **advanced room scheduling functionality** to deliver a consistent appearance throughout your facility. As **part of a complete Crestron Fusion® room scheduling system**, a TSS-752 can be installed at the entrance to every conference room, providing an immediate view of each room's status. Using the TSS-752, anyone can **easily view details about the current meeting**, scroll through the calendar to **see the room's entire schedule**, and even book the room (or any other room) on the spot.



## TSS-752

### 7" Room Scheduling Touch Screen

- › Works with Crestron Fusion software
- › Integrates with most popular scheduling applications
- › Intuitive on-screen scheduling interface
- › 7" widescreen active-matrix color display
- › Capacitive touch screen technology
- › Smart Graphics™ support
- › Crestron Fusion multi-language support
- › Occupancy sensor support via control system to Crestron Fusion
- › Side-mounted multi-color room status indicators
- › Five soft-touch capacitive buttons
- › Single-wire Ethernet connectivity
- › PoE network powered
- › Secured mounting to a standard electrical wall box
- › Multi-surface mounting option available, includes glass-mount raceways
- › Clean, modern appearance
- › Available with black or white smooth finish
- › Custom programmable for non-scheduling applications with H.264 streaming video, and Rava® SIP intercom, screensaver, and multi-language on-screen keyboard

## A New View of Room Scheduling

The TSW-732 features a big, brilliant screen with **lots of space for displaying essential meeting and scheduling information** all at once. Mounted outside a room, anyone can **see at a glance if the room is in use or available**, and view details about the current meeting on the color display. A swipe of the finger across the touch screen reveals the room's entire schedule on a scrolling calendar ribbon. You can even reserve the room, or any other room, right from the touch screen.



## TSW-732

### 7" Room Scheduling Touch Screen

- › Works with Crestron Fusion® software
- › Integrates with most popular scheduling applications
- › Intuitive on-screen scheduling interface
- › 7" widescreen active-matrix color display
- › Capacitive touch screen technology
- › Smart Graphics™ support
- › Crestron Fusion multi-language support
- › Built-in proximity sensor
- › Room occupancy sensor option (requires PoE+)
- › 10 optional "hard key" pushbuttons
- › Dual-color room status indication and button backlighting
- › Custom engravable button text
- › Single-wire Ethernet connectivity
- › PoE/PoE+ network powered
- › Versatile wall, surface, and tabletop mounting options, includes glass-mount raceways
- › Available with black or white smooth finish
- › Custom programmable for non-scheduling applications with H.264 streaming video and Rava® SIP intercom
- › Also available, TSCW-730 with built-in 3-Series® control system



### **“Go Anywhere” Touch Screen Control and Room Scheduling**

The TSS-752, the TSW-730, and the TPMC-4SM allow you to provide an elegant touch screen solution in virtually any location. Each offers a complete set of mounting options for installation over a standard electrical box, placed on a table top, or attached to any flat surface — even glass, granite, marble, or concrete.



### **TPMC-4SM 4.3” Touch Screen**

- › Versatile wall, surface, and tabletop mounting options
- › 4.3” widescreen color touch screen
- › Smart Graphics™
- › H.264 streaming video
- › Crestron IP intercom
- › Customizable audio feedback
- › Built-in microphone and speaker
- › Built-in proximity sensor
- › 10 optional “hard key” pushbuttons
- › Dual-color button backlighting and feedback
- › Also available with white LEDs (model TPMC-4SMD)
- › Custom engravable button text
- › Crestron Fusion® room scheduling mode
- › Room occupancy sensor option
- › Single-wire Ethernet connectivity
- › PoE network powered
- › Black or white smooth finish
- › Also available, TPCS-4SM(D) with built-in control system for custom applications

### Rava® SIP Intercom & Phone — Talk To Me!

Rava® SIP Intercom Technology enables hands-free VoIP communication between any two Rava-enabled Crestron touch screens, including all TSW models. Rava works over Ethernet, supporting 2-way intercom, paging, and room monitoring without any special wiring. VoIP phone capability is also possible through integration with an SIP-compatible IP phone system or SIP server, allowing hands-free telephone functionality with speed-dialing, caller ID, custom ringers, and other enhancements.

The TPMC-4SM-FD packs the power of Smart Graphics™ with Rava SIP Intercom technology to deliver a **total room control solution with the added capabilities of a hands-free phone or intercom station**. Built-in echo cancellation affords **true-duplex performance for clear, seamless voice communication**.



### TPMC-4SM-FD 4.3" Touch Screen with Rava®

- › 4.3" widescreen color touch screen
- › Smart Graphics™
- › H.264 streaming video
- › Rava® SIP intercom and phone technology
- › Built-in microphone and speaker
- › Customizable audio feedback
- › Built-in proximity sensor
- › Ten optional "hard key" pushbuttons
- › Dual-color button backlighting and feedback
- › Also available with white LEDs (model TPMC-4SMD-FD)
- › Custom engravable button text
- › Crestron Fusion® room scheduling mode
- › Room occupancy sensor option
- › Single-wire Ethernet connectivity
- › PoE network powered
- › Surface mount over a wall box or 2" square hole
- › Black or white smooth finish

### Small Size, Big Performer

At a very affordable cost, the TPMC-3SM provides a perfect room scheduling solution for use with Crestron Fusion® software, and affords total control over audio, video, lighting, and other functions — all in the space of a light switch.



### TPMC-3SM 2.8" Wall Mount Touch Screen

- › Modern, contoured appearance
- › Thin profile and small footprint
- › Affordable and easy to install
- › Quick-access pushbuttons
- › Dual-color LED button backlighting
- › Also available with white LEDs (model TPMC-3SMD)
- › Crestron Fusion room scheduling mode
- › Single-wire Ethernet connectivity
- › PoE network powered
- › Single-gang wall box mountable
- › Available in smooth black or white

## Big Touch Screens with Big Performance

A sleek design, **High-Definition Smart Graphics™**, embedded multimedia and Web browsing, and VESA mount capability make **V-Panel® touch screens our most powerful, versatile, and visually appealing large format touch screens ever. V-Panels® can be custom mounted using off-the-shelf display brackets and telescoping arms.** They can be mounted flush in a wall, lectern, equipment rack or console. Or, they can simply be placed on a table or countertop.



### TS-1542 15.6" HD Touch Screen

- › Premium metallic construction
- › Full HD 1080p capacitive touch display
- › Auto-brightness control
- › Dual-window HD streaming video display
- › Remote annotation support
- › Built-in Web browsing
- › External USB keyboard support
- › Built-in microphone and speakers
- › Voice recognition capability
- › Full duplex Rava® intercom and phone
- › Customizable audio feedback
- › PoE+ or 24VDC powered
- › Choice of surface wall mount or tabletop



## **TSD-2020**

### **V-Panel® 20" HD Touch Screen Display**

- › Full HD 1920 x 1080 display resolution
- › Quick-response capacitive touch screen
- › Smooth, accurate on-screen writing with included annotation pen
- › Works with the DGE-100
- › High-definition Smart Graphics™
- › Onboard HDMI® and Displayport inputs
- › DigitalMedia™ system integration using a DM® receiver
- › Multi-window display of HDMI®, VGA, component, and H.264 streaming video sources
- › Fully HDCP compliant
- › Annotation over full-motion video images
- › Embedded PC applications
- › Built-in speakers
- › Thin, lightweight design
- › VESA 100x100 mountable

### Multi-format video processors and digital graphics engines

High-performance streaming, HDMI connectivity, display control, custom onscreen display, and seamless integration with Crestron Fusion®.



### DGE-100 & DM-DGE-200-C Digital Graphics Engines

- › High-performance H.264 streaming video in
- › HDMI® input and output
- › DM® input for HDBaseT® signals from a DM transmitter or switcher, enabling full support of 4K/60 sources (DM-DGE-200-C)
- › Multi-format video processor (DM-DGE-200-C)
- › Enables customized on-screen graphics and messaging
- › Outputs 4K HDMI to a 4K display, or downscales to a 200 display
- › HD graphics and video processing engine for TSD-2020 and large format touch display

### Award-Winning Ergonomics, All New Experience

The TST-602 adds Smart Graphics™ to our best selling TPS-6X Wireless Touch Screen, providing **a whole new user experience** in a slick-looking portable design.



### TST-602 5.7" Wireless Touch Screen

- › Advanced wireless touch screen controller
- › Compact, lightweight contoured design
- › 5.7" LED Edgelit color LCD display
- › Capacitive touch screen technology
- › Smart Graphics™ support
- › Voice recognition capability
- › High-performance H.264 streaming video
- › Rava® SIP intercom and phone technology
- › Customizable audio feedback
- › Web browsing
- › On-screen keyboard and mouse
- › Customizable screensaver
- › Built-in microphone and speakers
- › Illuminated buttons and engravable backlit text
- › No-button front bezel option included
- › Dual-mode RF wireless performance —  
Extended Range 2.4 GHz RF plus Wi-Fi®
- › Instant-Waking® behavior — like an IR remote  
with all the benefits of 2-way RF!
- › Supports roaming for extended wireless coverage
- › Includes wired Ethernet connectivity  
as an alternative to Wi-Fi
- › Fast charging, long lasting Li-Ion battery
- › Wall dock allows stationary use while charging
- › Available in smooth black or white,  
or textured black finishes

### Advanced Wireless Touch Screen Control

The TST-902 delivers **enhanced wireless control in an incredibly thin and stylish design**. Featuring a high-contrast 8.7" capacitive touch screen, advanced Smart Graphics™, voice recognition, H.264 streaming video, audio feedback, Web browsing, and dual-mode RF wireless performance, the TST-902 offers **a mobile touch screen experience like no other**.



### TST-902 8.7" Wireless Touch Screen

- › Thin, lightweight design
- › 8.7" LED backlit color LCD display
- › Capacitive touch screen technology
- › Smart Graphics™ support
- › High-performance H.264 streaming video
- › Customizable audio feedback
- › Voice recognition capability
- › Web browsing
- › On-screen keyboard and mouse
- › Customizable screensaver
- › Built-in microphone and speakers
- › Dual-mode RF wireless performance — Extended Range 2.4 GHz RF plus Wi-Fi®
- › Instant-Waking® behavior — like an IR remote with all the benefits of 2-way RF!
- › Field-replaceable Li-Ion battery pack
- › Available table and wall charging docks



### Our best remote ever

Slim, stylish, and elegant in every detail, the TSR-302 takes handheld control to a luxurious new level. Ruggedized for durability and wrapped in a satiny smooth, easy-grip housing, the TSR-302 offers exceptional comfort and ergonomics for hours of one-handed use. Dual-mode wireless performance with roaming capability assures dependable connectivity throughout the home or workplace.



### TSR-302 Touch Screen Remote

- › Advanced handheld wireless remote
- › Rugged, easy-grip ergonomic design
- › Silky-matte black finish
- › Fully programmable functionality
- › Backlit, soft-feel tactile buttons
- › 2.8" capacitive color touch screen display
- › Smart Graphics™ support
- › Voice recognition capability
- › High-performance H.264 streaming video
- › Rava® SIP intercom and phone technology
- › Customizable audio feedback
- › On-screen keyboard and mouse
- › Customizable screensaver
- › Built-in microphone and speaker
- › Dual-mode RF wireless performance —  
Extended Range 2.4 GHz RF plus Wi-Fi®
- › Instant-Waking® behavior — like an IR remote  
with all the benefits of 2-way RF!
- › Supports roaming for extended wireless coverage
- › User-replaceable Li-Polymer battery pack
- › Inductive charging technology
- › Includes table dock charger

### Low-cost infiNET EX® Remote with Color Display

The MLX-3-SF affords intuitive control for an entire boardroom, classroom, or custom home through **a brilliant user interface that's simple to use — and just as simple to configure.** Featuring customizable scrolling menus and full-color icons, the MLX-3-SF makes it easy to select your room, pick a media source, choose a radio station, TV channel, or media title, and even access lighting and other environmental controls — all without having to flip through endless confusing pages of static buttons.



### MLX-3 Color LCD Handheld Wireless Remote

- › Rugged and ergonomic handheld design
- › Silky-matte black finish
- › 2" active matrix color LCD display
- › Intuitive menu-driven user interface
- › Easy scroll wheel navigation
- › True-feedback and dynamic text capability
- › Full-color icons and status indicators
- › Text search capability via multi-tap keypad
- › Smooth, responsive hard buttons
- › Adjustable backlit button text
- › Ultra-reliable infiNET EX wireless communications
- › 75 feet (23 m) RF range (typical)
- › Easy range extension using infiNET EX expanders
- › Instant-Waking® behavior
- › Works like an IR remote — with all the benefits of 2-way RF!
- › Powered by four AA lithium or alkaline batteries

## Beautiful and robust handheld remotes

Designed with the same high-end look and feel of the TSR-302 Touch Screen Remote, these new handhelds feature a silky-matte finish, perfectly balanced weight, and backlit buttons. Functional navigation is thoughtfully designed and consistent across the family so homeowners never miss a beat as they move from room to room. RF communications via inifNET EX® ensures great performance from anywhere in the room.

### HR Handheld Remotes

- › Customizable handheld wireless remote
- › Rugged, easy-grip ergonomic design
- › Silky-matte black finish
- › Fully programmable functionality
- › Ultra-reliable inifNET EX® wireless technology
- › Powered by 4 AAA alkaline batteries
- › 75 feet (23 meters) initial RF wireless range



### HR-150 50 Button Remote

- › 50 backlit, soft-feel tactile buttons
- › Up to 8 user-assignable buttons



### HR-100 34 Button Remote

- › 34 backlit, soft-feel tactile buttons
- › Up to 4 user-assignable buttons

## Crestron Control® for Smart Devices

Take full control of your home, boardroom, or classroom using the one device that goes with you everywhere. The Crestron® app **turns your iPhone®, iPod touch®, iPad®, or Android™ device into the ultimate mobile Crestron touch screen**, enabling control of home theater and whole-house AV, boardroom and classroom multimedia, lighting, shades, climate control, security, and other systems from virtually anywhere.



## Crestron® App Control App for Apple® iOS® and Android™

- › Compatible with iPhone®, iPad®, and iPod touch®
- › Compatible with Android™ smartphones and tablets
- › Extensively customizable user interface
- › Control of lights, media, climate, security and more
- › Real-time status feedback and metadata
- › Smart Graphics™ support
- › Rava® SIP Intercom support
- › Live streaming video from security cameras
- › Communicates with PinPoint™ proximity detection beacons
- › Seamless integration with third-party apps
- › SSL secured communication
- › Requires no special server or 3rd-party service
- › Programmed just like a Crestron touch screen
- › Free demo download
- › In-app purchase enables full version



### **iPanel® Docks for iPad Air® and iPad Air 2**

The iPad Air offers a very popular choice for controlling any Crestron system. Our stylish iPanel® docks **transform the iPad Air into a stationary Crestron touch screen** for any application requiring a tabletop or wall mount docking solution.

- › Enables stationary tabletop touch screen control
- › Affords seamless control system integration using the Crestron® App
- › Charges the iPad Air® while docked
- › Retains use of the device's microphone, speaker, camera, and buttons
- › Allows for easy docking and undocking
- › Available in smooth white or black finishes
- › Available in tabletop and wall mount versions



## **IDOC-PAD-LCA-DSWC**

### **iPanel® Wall Dock for iPad Air®**

- › Enables stationary wall mount touch screen control
- › Charges the iPad Air® while docked
- › Retains use of the device's microphone, speaker, camera, and buttons
- › Allows for easy docking and undocking
- › Invertible for left or right-hand docking access
- › Includes locking kit for permanent wall docking
- › Powered via PoE, Cresnet®, or power pack
- › Supports 2-gang US, UK, or European electrical wall box mounting
- › Can be mounted directly to drywall or paneling over a cutout
- › Installs easily in place of many older Crestron touch screens
- › Compatible with TSW-UMB Universal Mounting Bracket
- › Pre-construction and masonry mounting options available
- › Protrudes just 1" (26 mm) from the wall surface
- › Available in smooth white or black finishes

### XPanel featuring Smart Graphics™

Crestron was the first in the industry to offer an IP-based remote control solution, unleashing the vast possibilities for controlling, monitoring, and managing integrated systems over a LAN, WAN, and the Internet. Today's XPanel technology with Smart Graphics™ affords an incredibly robust IP control platform to deliver **advanced virtual touch screen control through any popular Web browser**, or as a desktop application, whether running on a Mac® or Windows® PC.



### XPanel Crestron Control® for Computers

- › Virtual Crestron touch screen control on a computer
- › Compatible with Windows®, Mac®, and other platforms
- › Runs as a desktop application or in a Web browser
- › Supports Smart Graphics™
- › Programmed just like a Crestron touch screen or mobile app
- › Can be generated instantly from an existing touch screen or mobile project
- › Communicates directly over IP with a Crestron control system
- › No special servers or service fees required

## Speakers — the Look and Sound of Crestron

Available for a complete range of commercial and residential applications, Crestron speakers are **designed to deliver excellent speech intelligibility and full, rich music reproduction** for use in custom homes, boardrooms, classrooms, restaurants, night clubs, retail spaces, houses of worship, and convention facilities. Solid construction and numerous feature enhancements ensure a **quick and easy installation and years of reliable performance.**



Saros

---



Excite

---



Aspire

---



Essence





## **Saros® SR Series** **2-Way Surface Mount Speakers**

- › High-performance 2-way surface mount loudspeakers
- › Designed for high reliability in indoor and outdoor applications
- › 4, 6.5, or 8" polypropylene woofers with damped cloth surrounds for tight, controlled bass, and clear midrange
- › Optimized dual front ports for enhanced low- frequency response
- › Horn-loaded titanium dome tweeters for crisp, clear high-end and enhanced pattern control
- › Rigid ABS construction with powder coated aluminum grilles
- › Versatile and easy-to-install "QuickBall" mounting system
- › May be mounted over an electrical box or to a light pole
- › Tool-free clamp mechanism allows 360° rotation and continuously variable positioning
- › Up to 200 Watts program power handling at 8 Ohms (SR8T)
- › Built-in 70/100V multi-tap transformer
- › Available in black or white – paintable to blend with surroundings



## **Saros® PD Series** **2-Way Pendant Speakers**

- › High-performance suspended speaker for open-ceilings
- › Weather-resistant for use under eaves and in semi-enclosed spaces
- › 4, 6.5, or 8" polypropylene woofer with damped cloth surround for tight, controlled bass and clear midrange
- › Optimized dual front ports for enhanced low-frequency response
- › Horn-loaded titanium dome tweeter for crisp, clear high-end and enhanced pattern control
- › Rigid glass fiber reinforced ABS construction
- › Magnetically attached steel grilles
- › Includes wire rope hanger assembly for attachment to ceiling truss
- › 8 Ohms nominal impedance
- › Built-in 70/100V multi-tap transformer
- › Available in black or white – paintable to blend with surroundings

## **Saros® PDS8T** **8" Pendant Subwoofer**

- › High-performance suspended subwoofer
- › 8" low frequency driver
- › 35 to 125 Hz frequency range
- › 8 Ohms nominal impedance
- › Built-in 70/100V multi-tap transformer
- › Same enclosure as the PD8T



## **Saros® IC Series** **2-Way In-Ceiling Speakers**

- › High-performance 2-way in-ceiling loudspeaker
- › 4, 6.5, or 8" polypropylene woofer with damped cloth surround for tight, controlled bass and clear midrange
- › Optimized dual front ports for enhanced low- frequency response
- › Horn-loaded titanium dome tweeter for crisp, clear high-end and enhanced pattern control
- › "Zero-bezel" frameless grille for a clean, contemporary appearance
- › Integral aluminum back can with top and side conduit knockouts
- › Two-step toggle clamps for fast, easy installation
- › Includes tile bridge for installation in drop-tile ceilings
- › Suitable for installation in a plenum ceiling
- › Up to 200 Watts program power handling at 8 Ohms (IC8T)
- › Built-in 70/100V multi-tap transformer
- › Available in black or white – paintable to blend with surroundings

## **Saros® ICS8T** **8" In-Ceiling Subwoofer**

- › 8" low frequency driver
- › 35 to 125 Hz frequency range
- › 8 Ohms nominal impedance
- › Built-in 70/100V multi-tap transformer
- › Same enclosure as the IC8T



## **Saros® Express ICE Series** Express 2-Way In-Ceiling Speakers

- › Same appearance, dimensions, and time-saving installation features as Saros IC4T, IC6T, and IC8T
- › Lower cost components for budget-conscious applications



## **Saros® ICLP Series** Low-Profile 2-Way In-Ceiling Speakers

- › Designed to fit shallower ceiling spaces
- › Same quality components and time-saving installation features as Saros IC6T and IC8T
- › Requires only 5 1/8" mounting depth

## **Saros® Express ICELP Series** Low Profile 2-Way In-Ceiling Speakers

- › Designed to fit shallower ceiling spaces
- › Same features as Saros Express ICE6T and ICE8T
- › Requires only 5 1/8" mounting depth



## **Excite® IW & IC Series** 2-Way In-Wall & In-Ceiling Speakers

- › 5.25, 6.5, or 8" polypropylene woofers
- › Treated cloth dome tweeters
- › Swivel tweeters for precise coverage optimization
- › Steel composition woofer baskets
- › Paintable ABS plastic baffles with aluminum grilles
- › Easy-to-install toggle clamp mounting system
- › Front accessible high and low frequency contour switches
- › 8 Ohms nominal impedance
- › Sold in pairs



## **Aspire® IW & IC Series** 2-Way In-Wall & In-Ceiling Speakers

- › Audiophile performance
- › 5.25, 6.5, or 8" woven poly-glass composite woofers
- › 1" advanced synthetic polymer dome tweeters
- › Dual-tweeter and LCR models available
- › 4th order crossovers
- › Steel composition woofer baskets
- › Vented pole pieces
- › "Zero-bezel" frameless steel grilles, paintable
- › Choice of round or square ceiling grilles
- › Spring-loaded toggle clamp mounting system
- › 8 Ohms nominal impedance
- › Sold in pairs

# Speakers

---



## **Essence® IW & IC Series** 2-Way In-Wall & In-Ceiling Speakers

- › Ultimate performance
- › 5.25, 6.5, or 8" woven Kevlar® woofers
- › 1.1" advanced synthetic polymer dome tweeters
- › Precision 4th order crossovers
- › Cast aluminum woofer baskets
- › Extra large magnets and vented pole pieces
- › "Zero-bezel" frameless steel grilles, paintable
- › Choice of round or square grilles
- › Spring-loaded toggle clamp mounting system
- › 8 Ohms nominal independence
- › Sold in pairs



## **Aspire® IWS82** In-Wall Subwoofer

- › Dual 8" woven poly-glass composite drivers
- › Steel composition baskets
- › Eight-layer voice coils
- › 25 to 150 Hz frequency range
- › 200 Watt power handling
- › 8 Ohms nominal impedance
- › "Zero-bezel" frameless steel grille, paintable



## **Aspire IWLCRS2** 2-way Surface Mount Outdoor Speakers

- › Designed for home theater left, center, and right channels
- › Also suitable for stereo and surround channel applications
- › Supports horizontal or vertical orientation
- › Either orientation fits in a 2x4 framed wall
- › Dual 5.25" woven poly-glass composite woofers
- › 1" advanced synthetic polymer dome tweeter
- › "Zero-bezel" frameless steel grille, paintable
- › Spring-loaded toggle clamp mounting system
- › 150 Watts program power handling
- › 80 Hz to 20 kHz frequency response

## Harmonize With Nature using Landscape Speakers

Crestron AIR® Landscape Speakers deliver high-performance audio to all corners of your property. These unimposing weatherproof speakers blend in wherever you put them while providing sound quality rivaling any great indoor speaker. Get the full impact of your music outdoors with rich, deep bass provided by the AIR IGS82T In-Ground Subwoofer.



### AIR® LS Series Landscape Speakers

- › 2-way outdoor speakers
- › Choice of 4" or 6.5" coaxial drivers
- › Includes options for stake or surface mounting
- › Attractive bronze textured finish
- › 8 Ohms nominal impedance
- › Built-in 70/100V transformer
- › Sold in pairs

### AIR® IGS82T In-Ground Subwoofer

- › Dual 8" low-frequency drivers
- › Designed for direct burial
- › Bronze textured port cap
- › 22 to 120 Hz frequency range
- › 200 Watt power handling
- › 8 Ohms nominal impedance
- › Built-in 70/100V transformer
- › Sold individually





## DSP-128 Series Digital Signal Processors

The Crestron® DSP-128 family of digital signal processors leverages the highest quality components and the **expertise of veteran audio industry engineers** to deliver a revolutionary audio processing platform that's actually **easy to integrate and configure**. It has all the features and performance top sound system designers demand — complemented with an intuitive graphical workspace conceived to **achieve exceptional results quickly**.

- › Engineered to deliver exceptional pro audio performance with faster, easier implementation
- › Ready to go out of the box and extensively configurable
- › Hybrid channel strip architecture
- › Customizable input and output channel strips
- › Eight internal aux buses with channel strips
- › Full set of selectable channel strip objects
- › Fully-adjustable matrix mixing
- › Clean and intuitive software tool workspace
- › Real-time configuration and adjustment without compiling
- › Work offline or live via Ethernet or USB
- › Native Crestron system integration for rapid programming
- › Seamless export of Smart Graphics™ touch screen UI files
- › Seamless integration with Crestron RL® 2 and DM®
- › Easy integration with third-party codecs and court recording systems
- › Optional SIP or POTS audio conferencing interface
- › High-performance acoustic echo cancellation (AEC)
- › Fully automatic microphone mixing
- › Logic output for control of cameras and switchers
- › Built-in real-time spectrum analyzer and noise generator
- › Highest-quality converters, preamps, and line amps
- › Up to twelve mic/line inputs with 66 dB gain range
- › Up to eight +24 dB balanced line outputs
- › Optional 32x32 Dante™ audio network interface
- › Optional 8x8 USB Audio interface
- › Front panel meters on select models

# Audio Solutions

---

- › Up to 32 real-time VU meters on a touch screen
- › Enterprise-grade Ethernet networking
- › Crestron Fusion® Cloud remote monitoring
- › Internal universal power supply
- › Single-space 19" rack mountable
- › Five models available



## AMP-8000 Series Networked 8-Channel Power Amplifiers

Designed to complement our DSP-128 processors, these amplifiers offer eight channels of clean, professional power with **sophisticated features to maximize efficiency, performance, and reliability.**

- › High-efficiency eight-channel amplifiers
- › Choice of 75 or 150 Watts per channel
- › Independently configurable low or high-Z outputs
- › Choice of 70 or 100 Volt, all models support 4/8 Ohm
- › Comprehensive front panel status indication and output meters
- › Remote control and monitoring via software or control system
- › Rear panel balanced inputs and level adjustments
- › Detachable terminal blocks for easy servicing
- › Single-space 19" rack mountable
- › High-density stackable without extra spacing



### ENERGY STAR® Qualified Power Amplifiers

Crestron AMP-series Commercial Power Amplifiers provide a **perfect combination of high output and efficiency** for all types of professional audio applications. 100% Crestron engineered and built, these amplifiers are ENERGY STAR qualified to **enable organizations to fulfill their green initiatives without compromising on audio performance**. Advanced design features include a high-efficiency amp topology with active power factor corrected power supply, delivering a generous amount of power in a space-saving 1U rack-mountable chassis.



### AMP-Series All Models

- › Ultra-efficient space-saving design
- › Low total cost of ownership
- › High-output power, low noise, low distortion performance
- › Individual channel power control via jumper or remote contact
- › Auto power-down after 30 minutes of no signal
- › Instant auto power-on when an input signal is detected
- › No inrush current during power-up
- › Over current and DC offset protection per output
- › Thermal protection on the power supply and each channel
- › Front panel signal, clip, and fault indicators per channel
- › Professional balanced inputs
- › Detachable terminal block connectors
- › Rear panel  $\pm 10$ dB input level controls
- › Convection cooled - no noisy fans
- › Single-space 1U rack mountable
- › Universal power supply with active power factor correction



## **AMP-2210S & AMP-3210S** Commercial Power Amplifiers, 4/8Ω

- › Choice of two or three channel models
- › Each channel rated 210W@4Ω and 120W@8Ω
- › Channels one and two bridgeable for 420W@8Ω
- › Lightweight and under 11 inches (279 mm) deep



## **AMP-2210T & AMP-3210T** Commercial Power Amplifiers, 4/8Ω or 70/100V

- › Choice of two or three channel models
- › Each channel selectable for 4/8Ω, 70V, or 100V operation
- › Each channel rated 210W@4Ω, 120W@8Ω,  
and 120W@70/100V
- › Channels one and two bridgeable for 420W@8Ω
- › Transformer isolated 70 and 100 Volt outputs
- › Under 15 inches (381 mm) deep



## **AMP-2210HT** Commercial Power Amplifier, 4/8Ω or High-Power 70V

- › 2 channels
- › Each channel selectable for 4/8Ω or 70V
- › Each channel rated 210W@4Ω,  
120W@8Ω, and 210W@70V
- › Under 15 inches (381 mm) deep
- › Available in North America only

### Go Anywhere Compact Audio Amplifiers

Crestron MP-AMP Series amplifiers are designed to fit where other amplifiers can't go. They're even **suitable for installation above a plenum-rated ceiling**, perfect for use in classrooms and conference rooms with a single projector or flat panel display. Compact and affordable, these ENERGY STAR® qualified amplifiers feature a smart combination of **energy-saving features to maximize efficiency for a low total cost of ownership.**



#### MP-AMP40

#### Media Presentation Audio Amplifiers, 70V or 100V

- › Compact single-channel power amplifier
- › ENERGY STAR® qualified
- › 40 Watts at 70 or 100 volts (mono)\*
- › Transformer isolated output
- › High-efficiency Class D topology
- › Energy saving design reduces power consumption when idle
- › Convection cooled for noiseless operation
- › Simple volume, bass, and treble adjustments
- › Electronic short-circuit and overload protection
- › Detachable terminal block speaker connection
- › Balanced line input via detachable terminal block
- › Unbalanced RCA® line input
- › Built-in stereo to mono summing
- › Includes surface mounting brackets
- › Suitable for installation within a plenum-rated suspended ceiling

\* 70V model available in North America only



### **MP-AMP30** Media Presentation Audio Amplifier, 4/8 $\Omega$

- › Compact stereo power amplifier
- › 15 Watts per channel into 8 or 4 Ohms
- › Stereo or mono-summed operation
- › High-efficiency Class D topology
- › Energy saving design reduces power consumption when idle
- › Convection cooled for noiseless operation
- › Simple volume, bass, and treble adjustments
- › Built-in loudness contour circuit
- › Electronic short-circuit and overload protection
- › Detachable terminal block speaker connections
- › Unbalanced RCA line input
- › Integral surface mounting flanges
- › Suitable for installation within a plenum-rated suspended ceiling



# SONNEX<sup>®</sup>

## Powerful, Scalable Multi-Zone Audio

Sonnex<sup>®</sup> is simply **the best sounding, most powerful audio distribution solution on the market**. Featuring high output power, high efficiency, advanced DSP, flexible configuration, and integrator-friendly setup, Sonnex is ideal for restaurants, sports bars, night clubs, hotels, banquet halls, and custom homes. **Sonnex is engineered to integrate perfectly with DigitalMedia™** to form a total media distribution solution with minimal wiring — and minimal headaches.

Sonnex is fully scalable using expansion units that can be placed centrally or remotely, with **simple hookup using a single shielded CAT5e or fiber optic cable**. Start with the SWAMP-24X8 at your head end, and add up to eight SWAMPE or SWE expanders for an astounding seventy-four stereo zones of robust, audiophile sound quality. A generous twenty-four inputs are provided at the head end to handle analog and digital sources.

**Additional features include an expanded assortment of digital and analog line level outputs** via the SWE-8 unamplified switcher, support for driving 70V or 100V speaker lines via the SAT-70V/100V output transformer, and Sonnex Link signal extension using the S-EXT1-S fiber extender.

Works with



## **SWAMP-24X8 Sonnex®** Multiroom Audio System

- › Advanced multi-zone audio distribution
- › Robust, high-efficiency audiophile grade amplification
- › 140 Watts/Ch. @ 8 Ohms, 400 Watts/Ch. Bridged
- › Eight amplified stereo zone outputs
- › Two additional S/PDIF stereo zone outputs
- › Output Bussing — Link multiple adjacent zones
- › Bridgeable outputs — Extra power for large or noisy areas
- › Sonnex Link — One-wire interface to 8 expanders up to 200 feet (60 meters) away
- › Balanced, unbalanced, and S/PDIF inputs
- › Direct connection to Crestron Interface for iPod®
- › Volume, bass, treble, loudness, and selectable “tone profiles”
- › 5-band graphic or parametric EQ per zone
- › Dynamic Range Control — Maintains even listening levels
- › Speaker Profiles — Preset speaker settings for fast, easy commissioning
- › Sonnex Speaker Protect® — Extends headroom while preventing damage
- › Energy-saving individual zone power control and global standby
- › Streamlined setup and adjustment
- › Remote fault monitoring
- › Seamless Crestron system integration
- › Heavy duty detachable terminal blocks
- › Low power consumption, cool-running operation
- › Compact 4-space 19” rack-mountable



Works with



## **SWAMPE-4 & SWAMPE-8** Sonnex® Multiroom Audio Expanders

- › Adds four or eight amplified stereo zone outputs
- › Provides same performance and room functionality as the SWAMP-24X8
- › Connects to SWAMP-24X8 via a single shielded CAT5e
- › Receives up to twenty-four sources from over a single shielded CAT5e
- › Three-space rack mountable
- › Save time and money on installations



## SWE-8

### Sonnex® Multiroom Audio Unamplified Expander

Works with



- › Unamplified 8-Zone  
Sonnex expansion with line-level outputs
- › Four zones with balanced and unbalanced line outputs
- › Four zones with S/PDIF digital outputs
- › All eight zones also include Crestron Home® CAT5 balanced outputs
- › Professional-quality audio performance
- › Advanced DSP, mono summing, and output bussing per zone
- › Single-cable interface to SWAMP-24X8 via Sonnex Link
- › Plug-and-play operation
- › Single-space rack mountable



## SAT-70V/100V Sonnex® Output Transformers

- › Allows the use of 70 or 100 Volt speakers with any Sonnex® system
- › Enables the connection of multiple speakers to a single amplifier output
- › Enables the use of small gauge wire for long runs
- › Provides full transformer isolation
- › Rated 120 Watts at 70 or 100 Volts per channel
- › 40 Hz to 20 kHz ( $\pm 1$  dB) frequency response
- › 2 and 4 channel models available
- › Single-space rack mountable



### **S-EXT1-S Sonnex® Link over Fiber Extender**

- › Extends the Sonnex Link up to 2000' (610 meters) over one multimode fiber strand
- › Transports twenty-four stereo channels of digital audio and control
- › Protects against lightning surges for outdoor runs

### **Simple Audio Signal Extension**

Crestron Audio over CAT5 Extenders **allow audio sources in any room to be integrated into the whole-house experience** by providing one or more audio return channels over one wire. For any audio application, Crestron Audio over CAT5 Extenders enable the extension of analog or digital audio signals over a single CAT5 (or better) UTP cable.



### **AUD-EXT Audio over CAT5 Extenders**

- › Extends analog or digital audio signals over a single CAT5
- › Provides an audio return channel solution for any multiroom audio system
- › **AUD-EXT-100** extends one unbalanced stereo signal up to 2000' (610 meters)
- › **AUD-EXT-200** extends two unbalanced stereo signals up to 2000' (610 meters)
- › **AUD-EXT-201** extends one unbalanced stereo signal and two S/PDIF signals up to 600' (183 meters)
- › **AUD-EXT-202** extends two S/PDIF signals up to 600' (183 m)
- › Completely passive — no power required
- › Surface mountable or attach to a single rack rail
- › Up to 3 units fit side-by-side on a 1U 19" rack shelf

### World Class Surround Sound — Designed for Integration

**PROCISE®** PROCISE® delivers a high-definition 7.3 surround sound solution for high-end boardrooms and custom theater installations. Using the finest components and a proprietary combination of advanced features and innovative technologies, PROCISE fulfills the myriad design challenges and performance expectations of the high-end custom market.



### PSPHD PROCISE® High-Definition Professional Surround Sound Processor

- › 7.3 HD surround sound processing
- › Multiple subwoofer support
- › Audyssey MultEQ® XT technology
- › Audyssey Dynamic EQ® and Audyssey Dynamic Volume®
- › HDMI® connectivity
- › HD 1080p video switching
- › Studio grade performance
- › Supports Dolby® TrueHD and DTS-HD Master Audio™ 7.1 formats
- › QuickSwitch HD® key management and switching
- › Discrete signal processing for every speaker and subwoofer
- › Integrated 3-channel line mixer and speech processor
- › Mono and stereo down-mix outputs
- › Flexible routing of any mixer input to any output
- › Inputs for HDMI, AES/EBU, S/PDIF optical and coaxial sources
- › Inputs for stereo and multi-channel analog sources
- › XLR balanced inputs and outputs
- › Exclusive PROAMP automatic amplifier pairing
- › Native Crestron control
- › Crestron PROCISE Tools software
- › DigitalMedia™ system integration



### **PROAMP-7X250 & PROAMP-7X400** **PROCISE® High-Definition Professional** **Surround Sound Amplifiers**

- › World-class, professional 7-channel surround sound power amplifiers
- › Choice of 250 or 400 Watts per channel
- › Unprecedented integration with the PSPHD for seamless control and monitoring
- › Native Crestron system integration via Ethernet or Cresnet®
- › Ultra-efficient hybrid design puts immense output power in minimal space
- › The benefits of Class D with the warm, neutral sound quality of Class AB
- › Infinitesimal noise and THD affords pure, natural audio reproduction
- › Robust, isolated channel power supplies ensure maximum dynamic impact
- › DC coupling affords ultimate transparency and frequency response
- › Inrush current limiting for gentle power-up
- › Front panel signal, clip, and fault indicators
- › Expanded monitoring of temperature, faults, and signal status from PSPHD or control system
- › Heavy duty detachable terminal blocks ease speaker wire termination
- › 24k gold-plated XLR balanced inputs
- › Five-space 19" rack-mountable

## 7.1 Surround Sound for Every Room

The new HD-XSP and HD-XSPA make it easy and affordable to include **high-quality surround sound in any room of the home or workplace**. The HD-XSP is ideal for integration into a commercial conference room or auditorium, while the HD-XSPA provides a perfect residential solution for adding surround sound into many different rooms as part of a whole-house AV distribution system. A unique feature set allows these processors to go places other processors can't easily go, providing **easier integration in less space at a lower cost**.



### HD-XSP 7.1 High-Definition Professional Surround Sound Processor

- › True 7.1 surround sound via HDMI® and balanced analog out
- › High-resolution 24-bit audio signal processing and conversion
- › DTS-HD®, Dolby® TrueHD, and Dolby Digital Plus decoding
- › High-definition 3D video pass-thru via HDMI®
- › 100% HDCP compliant
- › QuickSwitch HD® technology for fast, reliable switching
- › Stereo downmix via HDMI and/or balanced analog outputs
- › One HDMI, one S/PDIF optical, two S/PDIF coaxial, and two analog inputs
- › Balanced stereo audio mix input for sound reinforcement, paging, doorbell, or phone ringer signals — feeds left, right, and downmix outputs
- › Source compensation and lip sync adjustment on every input
- › Independent level, delay, crossover and parametric EQ adjustments on every surround output
- › Volume, bass, treble, loudness, and compression settings for surround zone
- › Volume, bass, treble, loudness, and mono settings for downmix zone
- › Versatile bass management for systems with or without a subwoofer
- › Color LCD front panel for setup and basic operation
- › Native Crestron® system integration
- › 10/100 Ethernet communications
- › Simplified setup via front panel or software
- › CEC pass-through from a control system via HDMI
- › Single-space rack-mountable



## HD-XSPA 4K

### Ultra High-Definition 7.1 Surround Sound AV Receiver

- › True 7.1 surround sound processing
- › DTS-HD Master Audio™, Dolby® TrueHD, and Dolby Digital® Plus decoding
- › Built-in high-efficiency 8-channel power amplifier
- › 140 Watts/Ch. @ 8 Ohms, 240 Watts/Ch. @ 4 Ohms
- › Support for passive and powered subwoofers
- › Four HDMI®, one S/PDIF optical, two S/PDIF coaxial, two unbalanced stereo, and one balanced stereo input
- › DM 8G+® input (HDBaseT® compatible)
- › Seamless DigitalMedia™ system integration
- › Supports Full HD 1080p, 3D, and 4K video signals
- › Advanced HDCP management
- › QuickSwitch HD® technology for fast, reliable switching
- › Stereo downmix output for second zone or audio return
- › Amplified stereo downmix output available in lieu of back speakers
- › RS-232, IR, Ethernet, relay, and contact sensing ports
- › Display and source control via CEC
- › USB HID mouse/keyboard extension via DigitalMedia
- › Crestron control system integration via Ethernet
- › Color LCD front panel for basic setup and operation
- › Front panel USB port for installer setup
- › Built-in noise generator for audio setup
- › DSP with 9-band graphic or parametric EQ, delay, crossover, and compression
- › Speaker Profiles feature for easy, immediate equalization
- › Configurable speaker protection for maximum headroom
- › Per source input compensation and lip sync adjustment
- › Heavy-duty detachable speaker terminals
- › Intelligent amplifier protection and remote fault monitoring
- › 70/100 Volt “constant-voltage” output options
- › Low power consumption, cool-running operation
- › Compact 2-space rack-mountable design

## Budget-Conscious Multiroom Audio

The C2N-AMP-4X100 delivers **cost-effective audio distribution for up sixteen rooms** — perfect for small to moderate sized houses, condominiums, restaurants and retail spaces.

Works with



## C2N-AMP-4X100 4 Room Audio System

- › Affordable audio distribution for four rooms, expandable up to sixteen rooms
- › Integrated amplifier delivers 50 W/ Ch. @ 8 $\Omega$  and 75 W/Ch. @ 4 $\Omega$
- › Room outputs 1&2 and 3&4 each bridgeable for 100 W/Ch. @ 8 $\Omega$
- › Independent control of volume, bass, treble, and other settings per room
- › Six stereo line inputs with loop-thru for easy expansion
- › Front panel controls for source selection and volume control
- › Customizable front panel labelling using Crestron Engraver software or pre-printed labels provided
- › Crestron® system integration via Cresnet®
- › Built-in Cresnet power distribution



Works with



## **C2N-AMP-6X100** 6 Room + 2 Audio System

- Affordable audio distribution for six rooms, expandable for up to 24 rooms
- Additional line-level room outputs enable support for two additional zones (expandable up to eight)
- Integrated 12-channel amplifier delivers 50 W/Ch. @ 8Ω and 75 W/Ch. @ 4Ω
- Each amplified room output is bridgeable for 150 W @ 8Ω (mono)
- Provides support for passive or active powered subwoofers
- Features independent control of volume, bass, treble, and other settings per room/zone
- Includes twelve stereo line inputs with loop-thru for easy expansion
- Includes front panel controls for source selection and volume control
- Front panel is customizable using Crestron® Engraver software or pre-printed labels provided
- Allows for Crestron system integration via Cresnet® or Ethernet



## CEN-NSP-1 Network Stream Player

Works with



The Network Stream Player delivers a very practical solution for integrating Apple® iTunes® and Internet radio into a Sonnex® Multiroom Audio System or any other audio system. Using AirPlay® or USB, it lets you easily connect an iPod®, iPhone®, or iPad® to your system and instantly start playing your favorite tracks and playlists throughout your home or workplace.

- › Provides a wireless or wired interface for Apple® iOS® devices using AirPlay® or USB
- › Enables easy sharing of music from an iPod®, iPhone®, or iPad® through a whole-house audio system
- › Built-in Internet radio enables listening to SiriusXM®, Spotify® Connect, and vTuner® without a mobile device connected. (More Internet radio services coming soon)
- › Delivers touch screen control with
- › metadata and album cover art
- › Compatible with Apple USB docks and cables
- › Compatible with Apple iCloud® and iTunes Match® services
- › Provides S/PDIF and analog stereo audio outputs
- › Integrates seamlessly with the Sonnex® Multiroom Audio System
- › Compact, stackable “IFE small” form factor
- › Surface or DIN rail mountable using bracket provided
- › Available rack mount and pole mount options
- › PoE network powered



### **CEN-TRACK** TunerRack Modular Multi-Tuner

Works with



The CEN-TRACK is a modular multi-tuner capable of providing up to 6 independent radio tuners for use in a Crestron multi-room audio distribution system. Control of each tuner is available through the LCD front panel, as well as from Crestron touch screens, computers, and mobile devices.

#### **Choose any combination of up to three tuner cards:**

##### **Dual AM/FM Radio Card (ATC-AMFM2)**

Provides two completely independent AM/FM tuners with RDS/RBDS to support two separate listening zones.

##### **AM/FM & XM® Satellite Radio Card (ATC-AMFMXMD)**

Provides one XM satellite radio tuner and one AM/FM tuner with RDS/RBDS to support two separate listening zones.

##### **Internet Radio Card (ATC-AUDIONET)**

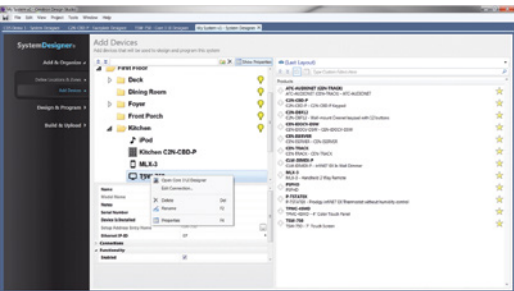
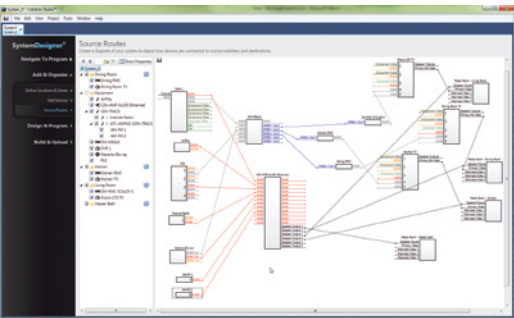
Provides a single Internet radio tuner for streaming over 15,000 available online radio stations and podcasts from around the world including Pandora® and SiriusXM® Internet radio.



## GUI Development and System Programming – Unified, Simplified, & Speedified!

The all-new Crestron Studio software makes it faster to design and program the world's most advanced automation systems. In a single, unified development environment, Crestron Studio provides everything needed to create incredible touchscreen GUIs and deliver an amazing user experience, while substantially reducing programming time.

The most popular audio and video codecs are now built in. All you have to do is draw your signal flow diagram like you normally do. Crestron Studio does the rest. All the codec control pages, functionality, the GUI, and the hooks to Crestron Fusion® are automatically generated behind the scenes, and Crestron validates all the code. You don't have to worry about a thing. Even better, with the new design “undo” functionality, you can easily try different layouts without having to start over.



## **Crestron Studio™** Unified Programming and GUI Design Software

- › Fluidly move between tasks within one app: programming, GUI design, engraving, device setup, network configurations
- › Backward compatible with 2-Series and 3-Series® SIMPL programs, user drivers, and VT Pro-e® projects
- › Substantially faster, more efficient project development means higher productivity for the dealer and greater value for the customer
- › Smart Graphics™, such as SmartObjects® and Smart Applications, add rich, dynamic graphics to projects quickly
- › Select from library of themes or create custom components and themes. Reuse as often as you like – change on the fly without redrawing or reprogramming
- › Use Universal Upload to compile and upload to all touch screens, mobile devices and computers at the same time
- › Retains existing concepts for easy adoption, but in a new, clean, customizable work environment
- › Speedier, more consistent usability with global keyboard shortcuts, speed keys, and favorites
- › Create multiple programs, layouts, trace windows and tools at once
- › Advanced filtering, type-to-add and drag-and-drop options for adding devices and rooms
- › No need to manually match join signals and .ced files
- › Jump effortlessly between views or drag any tab to a second monitor for multi-screen view
- › Infinitely configurable, tear-away, zoomable workspace
- › Directly launch setup tools for Sonnex®, PROCISE®, DM®, etc.
- › Network configuration sets network IDs and IP table entries for you
- › Automatic notification and delivery of device updates for the components you choose
- › Automatically builds up control interfaces for touch screens, MLX-3 remotes, and mobile apps
- › Unified AV routing technology assigns all AV programming for DigitalMedia, Sonnex, and other Crestron AV distribution products, including consistent source and volume controls throughout the project

Crestron is not responsible for errors in typography or photography. Specifications are subject to change without notice.

Crestron, the Crestron logo, 3-Series, 3-Series Control System, AIR, AirMedia, Ascent, Aspire, Auto-Locking, .AV Framework, Cameo, Capture HD, CaptureLiveHD, CREScode, CresFiber, Cresnet, Crestron 4K Certified logo, Crestron Connect It, Crestron Connected, Crestron Control, Crestron Fusion, Crestron Green Light, Crestron Home, Crestron Pyng, Crestron RL, Crestron Studio, Crestron Toolbox, DigitalMedia, DigitalMedia 8G, DigitalMedia 8G+, DM, DM 8G, DM 8G+, e-Control, Essence, Excite, FlipTop, FlipTops, FreeSpeech, Fusion EM, Fusion RV, Green Light Express, HD Collaboration in Seconds, iLux, infinET, infinET EX, Instant-Waking, Integrated by Design, iPanel, Isys, Pinpoint, PROCISE, QMT, QuickSwitch HD, Quiet Motor Technology, Rava, Saros, SIMPL+, Smart Graphics, Smart Space, SmartObjects, SmarTouch, Sonnex, Sonnex Speaker Protect, V-Panel, V-Panels, and VT Pro-e are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries.

Accordia-Fold is either a trademark or registered trademark of Cooper Industries, Inc. in the United States and/or other countries. ASHRAE BACnet and the ASHRAE BACnet logo are either trademarks or registered trademarks of American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. in the United States and/or other countries. Apple, AirPlay, iCloud, iPad, iPad Air, iPhone, iPod, iPod touch, iTunes, iTunes Match, Mac, MacBook, and OS X are either trademarks or registered trademarks of Apple Inc. in the United States and/or other countries. Armstrong and DC FlexZone are either trademarks or registered trademarks of Armstrong World Industries, Inc. in the United States and/or other countries. Audyssey MultEQ, Audyssey Dynamic EQ, and Audyssey Dynamic Volume are either trademarks or registered trademarks of Audyssey Laboratories, Inc. in the United States and/or other countries. Blu-ray is either a trademark or registered trademark of the Blu-ray Disc Association in the United States and/or other countries. Cisco, Cisco Jabber, Cisco Systems, iOS, and WebEx are either trademarks or registered trademarks of Cisco Technology, Inc. in the United States and/or other countries. CollegeNet and R25 are either trademarks or registered trademarks of CollegeNET in the United States and/or other countries. Dolby and Dolby Digital are either trademarks or registered trademarks of Dolby Laboratories in the United States and/or other countries. DTS, DTS-HD, and DTS-HD Master Audio are either trademarks or registered trademarks of DTS, Inc. in the United States and/or other countries. Kevlar is either a trademark or registered trademark of E. I. du Pont de Nemours and Company in the United States and/or other countries. Lonworks is either a trademark or registered trademark of the Echelon Corporation in the United States and/or other countries. Android and Google Calendar are either trademarks or registered trademarks of Google Inc. in the United States and/or other countries. HDBaseT and the HDBaseT Alliance logo are either trademarks or registered trademarks of the HDBaseT Alliance in the United States and/or other countries. RCA is either a trademark or registered trademark of Technicolor SA in the United States and/or other countries. Hartmann & Forbes is either a trademark or registered trademark of Hartmann & Forbes, Inc. in the United States and/or other countries. Baldwin is either a trademark or registered trademark of Spectrum Brands Holdings, Inc. in the United States and/or other countries. Pandora is either a trademark or registered trademark of Pandora Media, Inc. in the United States and/or other countries. SiriusXM, XM, and all related marks are either trademarks or registered trademarks of Sirius XM Radio Inc. in the United States and/or other countries.

HDMI and the HDMI Logo are either trademarks or registered trademarks of HDMI Licensing LLC in the United States and/or other countries. IBM and Notes are either trademarks or registered trademarks of International Business Machines Corporation in the United States and/or other countries. Intel is either a trademark or registered trademark of Intel Corporation in the United States and/or other countries. Microsoft, Excel, Internet Explorer, Lync, Office 365, Outlook, PowerPoint, and Windows are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. Samsung and Samsung Smart TV are either trademarks or registered trademarks of Samsung Electronics Co., Ltd in the United States and/or other countries. ModBus is either a trademark or registered trademark of Schneider Electric USA, Inc. in the United States and/or other countries. Texas Instruments is either a trademark or registered trademark of Texas Instruments Incorporated in the United States and/or other countries. Fortune 500 is either a trademark or registered trademark of Time Inc. in the United States and/or other countries. ENERGY STAR and the ENERGY STAR logo are either trademarks or registered trademarks of the United States Environmental Protection Agency in the United States and/or other countries. Guidebar is either a trademark or registered trademark of Waveguide Consulting, Inc. in the United States and/or other countries. Wi-Fi is either a trademark or registered trademark of Wi-Fi Alliance in the United States and/or other countries. Yale is either a trademark or registered trademark of Yale Security Inc. in the United States and/or other countries. DALI is either a trademark or registered trademark of ZVEI – Zentralverband Elektrotechnik- und Elektronikindustrie in the United States and/or other countries.

Other trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others.

©2016 Crestron Electronics, Inc.



Products manufactured in the United States. Printed in USA D4543C 2016-1

All brand names, product names, and trademarks are the property of their respective owners. Certain trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography. ©2016 Crestron Electronics, Inc.