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# Kramer New Product Directory

February 2020



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# Presentation Systems



## I Presentation Systems

### VP-551X 10-Input 18G 4K Presentation Switcher/Scaler

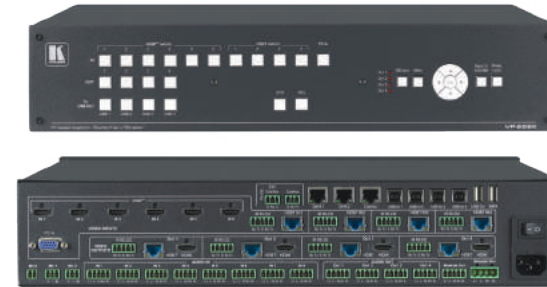


VP-551X is a versatile, professional presentation scaler/switcher for 4K@60 (4:4:4) HDMI, VGA and composite video signals. The unit scales the video and provides options to use the embedded HDMI audio or to select the companion audio channel from one of ten analog audio input signals. After processing and scaling, the embedded AV signal is sent to the HDMI and the HDBaseT outputs simultaneously, and the audio is also sent to a balanced stereo audio output, S/PDIF digital output and a pair of loudspeakers.

#### FEATURES

- High-Performance Switcher/Scaler - Scales HDMI, VGA and Composite video signals for output to two mirrored outputs: HDMI and HDBaseT. Constant output sync prevents signal disruption when switching between inputs and when no video is detected.
- High-Resolution Video - Supports and scales to/from resolutions up to 4K@60Hz (4:4:4) on the HDMI inputs and output, and 4K@60Hz (4:2:0) on the HDBaseT output. Complies with HDCP 2.2. Supports HDR10, CEC, xvYCC color (on input), Dolby TrueHD/DTS-HD Master Audio (by-pass), as specified in HDMI 2.0.
- Professional Video Quality - Provides selectable aspect ratios (full, best fit, over scan, under scan, letter box and pan scan). Includes built-in ProcAmp for color, hue, sharpness, noise, contrast and brightness control. Supports PixPerfect™, Kramer's precision pixel mapping and high-quality scaling technology. High-quality 3:2 and 2:2 pull-down de-interlacing and full up-scaling and down-scaling of all video input signals.
- Versatile Audio Options - Includes a companion analog audio input for each of the 10 video inputs, enabling the user to embed a separate analog audio channel into each video signal or to bypass an embedded audio input (for example, to support multi-channel, compressed audio formats like Dolby and DTS). Provides 2 independent microphone inputs on 6.3mm connectors (each with optional 48V phantom power) for mixing, switching or talk-over. On the output, besides the audio embedded on HDMI and HDBaseT outputs, the audio signal is also extracted (de-embedded) and output as balanced stereo analog audio, and as digital audio through an S/PDIF connected device, as well as amplified to 20W per channel for connection to loudspeakers.
- Powerful Audio Features - Includes DSP with audio equalization, mixing, delay and more.
- Versatile Powering Options - Receives power from a universal power supply (100-240V AC) and provides PoE power to a compatible HDBaseT device.
- HDTV Compatible.

### VP-558X 18G 4K HDMI 11x4:2 Presentation Boardroom Router / Scaler System



VP-558X is a high-performance 11x4 ProScale presentation scaler/matrix switcher outputs four independent scaled images to both HDMI and HDBaseT outputs. VP-558X supports digital and embedded audio and features six HDMI inputs, four HDBaseT inputs, an analog VGA input, and a 4x1 USB switcher. VP-558X also includes a microphone input, independent stereo audio outputs, a monitor output, an amplified speaker output, and audio DSP features.

#### FEATURES

- Professional High-Performance Scaler/Matrix Switcher - Kramer's Pix-Perfect™ Scaling Technology provides precision pixel mapping and high-quality full up-scaling and down-scaling technology.
- HDMI Support - 4K@60Hz (4:4:4), HDR as specified in HDMI 2.0.
- Support for H.264/5 Streaming Output - Built-in Ethernet switch with multiple Ethernet ports.
- Robust Audio Support - Features audio DSP, Input/Output Audio Level Adjustment, selectable microphone talkover or mix modes, analog & embedded digital audio.
- Built-in Power Amplifier - 2x20W power amplifier with speaker outputs on a 4-pin terminal block connector.
- Content Protection - Supports HDCP 2.2 and HDCP 1.4.
- System Range - For the HDBaseT inputs and outputs — up to 100m (328ft). Note: Use Kramer shielded cables to achieve optimum extension ranges.
- 4x1 USB Switcher - Can be set to follow the switching of the video layer or as an independent switcher.
- Comprehensive and Varied Control Options - Configuration from front panel buttons with OSD, RS-232, and built-in web pages via Ethernet. Includes multiple aspect ratio selections and built-in ProcAmp for color, hue, sharpness, noise, contrast and brightness.
- Remote Firmware Upgrade - via the Ethernet.
- Easy Installation - 19" enclosure for rack mounting a unit in a 2U rack space with included rack ears and universal 100-240V AC power connection.

HDR

4K60  
4:4:4  
HDCP 2.2

## VP-440X 18G 4K Presentation Switcher/Scaler with HDBaseT & HDMI Simultaneous Outputs



VP-440X is a high-performance 18G 4K HDR presentation switcher/scaler with four HDMI inputs and one computer graphics (VGA) input. It scales the video, embeds the audio, and outputs the signal to two identical outputs - one HDMI and one HDBaseT - together with an analog stereo audio output.

### FEATURES

- High-Performance Professional Scaler - Up-scales, down-scales and cross-scales up to resolutions of 4K@60 (4:4:4). The output resolution can be set to the native resolution either of the sinks, or manually set to another resolution. When the product is configured to scale to 18G 4K resolutions, the HDBT output automatically down-samples the chroma sampling to 4:2:0 coding.
- Smooth Switching - Constant output sync, prevents output glitches while switching between inputs, even when no video is detected.
- Flexible Digital and Analog Audio - Select a dedicated unbalanced analog audio input to embed into each input. In addition, a microphone input is provided on the front panel for mixing, switching or talk-over. Any of the signals can play audio through the unbalanced audio output.
- Powerful Audio Processing - Supports DSP technology including audio equalization, mixing, delay, and microphone talk-over (ducking).
- HDMI Signal Extension - HDCP 2.2 and HDCP 1.4 compliant. Supports HDR10 as specified in HDMI 2.0.
- EDID Pass-Through - EDID passed through from the source to the display.
- CEC Support - Supports passing of CEC from input to output. Automatically sends CEC commands to shut down the output display after a timeout period when no input signal is found and to power up the display when the input returns.
- Bidirectional RS-232 Extension - Serial interface data flows in both directions, on each extension line, enabling data transmission and control of devices.
- Diverse Control Options - Control the unit using an OSD (On-Screen Display) via front panel buttons, embedded web pages via Ethernet or serial communication via RS-232 transmitted by a PC, touch screen system or other serial controller. Additionally, connect to the contact closure connector for remote switching of sources and for toggling the display ON and OFF.
- Easy Installation - 1/2 19" size enables mounting in a 1U rack space with the recommended rack adapter.



## I Switchers & Matrices (continued)

# Switchers & Matrices





## I Switchers & Matrices

### VS-211X 2x1 4K HDR HDMI Auto Switcher



VS-211X is a high-performance 2x1 automatic switcher for 4K HDR, HDMI video signals. Offering priority and last-connected switching options, it automatically switches according to the selected switching scheme based on active video signal detection.

#### FEATURES

- Plug & Play Auto Switcher - Automatically plays the switched source signal on the connected display according to user-configured preferences, such as priority or last-connected input. When the user manually switches, by pressing a button, the auto switching is overridden.
- HDMI Signal Switching - HDCP 2.2 compliant, Supporting deep color, x.v.Color™, CEC, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0.
- Multi-channel Audio Switching - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound.
- I-EDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling, processing, locking and pass-through algorithm ensures plug & play operation for HDMI source and display systems.
- Audio De-embedding - The digital audio signal passing-through to the HDMI output, is de-embedded, converted to an analog signal and sent to the stereo unbalanced analog audio output. This enables playing the audio on locally connected speakers, in parallel to playing it on the speakers connected to the AV acceptor device (such as TVs with speakers).
- Simple Switching Operation - Local buttons or remotely connected contact-closure buttons for flexible user input selection and switching control.
- Cost-Effective Maintenance - Status LED indicators for HDMI ports facilitate easy local maintenance and troubleshooting. Local firmware upgrade ensures lasting, field-proven deployment.
- Easy Installation - Compact DigiTOOLS® fan-less enclosure for user-reachable table mounting, or side-by-side mounting of 3 units in a 1U rack space with the recommended rack adapter.

### VS-411X 4x1 4K HDR HDMI Auto Switcher



VS-411X is a high-performance 4x1 automatic switcher for 4K HDR, HDMI video signals. Offering priority and last-connected switching options, it automatically switches according to the selected switching scheme based on active video signal detection.

#### FEATURES

- Plug & Play Auto Switcher - Automatically plays the switched source signal on the connected display according to user-configured preferences, such as priority or last-connected input. When the user manually switches, by pressing a button, the auto switching is overridden.
- HDMI Signal Switching - HDCP 2.2 compliant, Supporting deep color, x.v.Color™, CEC, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0.
- Multi-channel Audio Switching - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound.
- I-EDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling, processing, locking and pass-through algorithm ensures plug & play operation for HDMI source and display systems.
- Audio De-embedding - The digital audio signal passing-through to the HDMI output, is de-embedded, converted to an analog signal and sent to the stereo unbalanced analog audio output. This enables playing the audio on locally connected speakers, in parallel to playing it on the speakers connected to the AV acceptor device (such as TVs with speakers).
- Simple Switching Operation - Local buttons or remotely connected contact-closure buttons for flexible user input selection and switching control.
- Cost-Effective Maintenance - Status LED indicators for HDMI ports facilitate easy local maintenance and troubleshooting. Local firmware upgrade ensures lasting, field-proven deployment.
- Easy Installation - Compact DemiTOOLS® fan-less enclosure for user-reachable table mounting, or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter.

## VS-44H2 4x4 4K HDR HDCP 2.2 Matrix Switcher



VS-44H2 is a high-performance 4x4 matrix switcher for 4K@60Hz (4:4:4) HDR signals. It reclocks and equalizes the signals and can route any one of 4 HDMI, HDCP-compliant sources (selectable) to any or all outputs simultaneously.

HDR

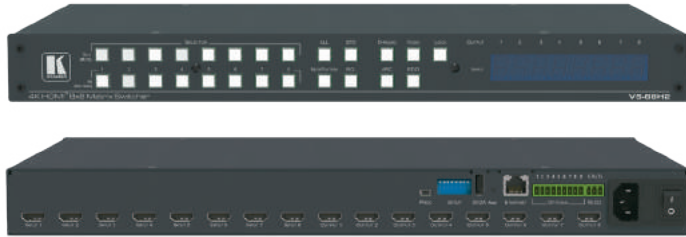
4K60  
4:4:4  
HDCP 2.2

### FEATURES

- High-Performance AV Matrix - Switches 8 4K@60Hz (4:4:4), HDR, HDMI, HDCP (2.2/1.4)-compliant signals to 8 4K@60Hz (4:4:4), HDR, HDMI, HDCP (2.2/1.4)-compliant outputs at up to 18G data rate. Featuring Kramer re-Klocking™ and Equalization Technology that rebuilds the digital signal to travel longer distances. Note: For optimum range and performance, use recommended Kramer cables.
- HDMI Support - Deep Color, 3D, ARC, up to 7.1 uncompressed audio channels as specified in HDMI 2.0.
- Easy Step-In Collaboration Function - When used with a Kramer Step-In enabled switcher, just plug in your device and press the Step-In button. Your device becomes the active signal on the main display.
- EDID Management - Individual EDID management per input. Captures and stores the EDID from a display device.
- Flexible Content Protection - Selectable HDCP per input.
- Quick Access to Common Configurations - Save up to 8 preset configurations.
- Smart Switching - Active source & acceptor detection. Automatic input selection based on priority selection or last connected input.
- Embedded Pattern Generator - With selectable patterns.
- Convenient Unit Control and Configuration Options - Local control via front panel switching, memory, lock and EDID buttons, and Input/Output LED display. Distance control via user-friendly embedded web pages via the Ethernet, Protocol 3000 API, and RS-232 serial commands transmitted by a PC, touch screen system or other serial controller.
- Cost-Effective Maintenance - Input selection indicators facilitate easy local maintenance and troubleshooting. Firmware upgrade via Ethernet or mini USB.
- Easy Installation - 19" enclosure for rack mounting in a 1U rack space with included rack ears and universal 100-240V AC power supply.

## I Switchers & Matrices (continued)

**VS-88H2** 8x8 4K HDR HDCP 2.2 Matrix Switcher with Digital Audio Routing



**VS-88H2** is a high-performance 8x8 matrix switcher for 4K@60Hz (4:4:4) HDR signals and digital audio routing. It reclocks and equalizes the signals and can route any one of 8 HDMI, HDCP-compliant sources (selectable) to any or all outputs simultaneously. **VS-88H2** offers unmatched audio flexibility where any embedded digital audio input can be routed to any digital output in addition to eight ARC sources to produce an equivalent 16x12 audio matrix.

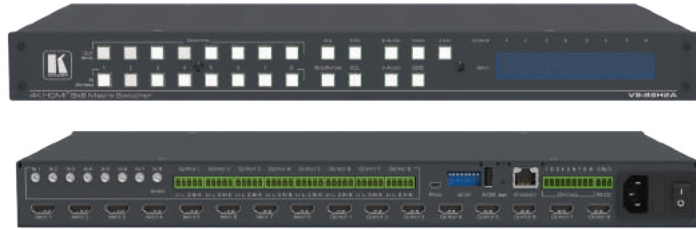
HDR

4K60  
4:4:4  
HDCP 2.2

### FEATURES

- High-Performance AV Matrix - Switches 8 4K@60Hz (4:4:4), HDR, HDMI, HDCP (2.2/1.4)-compliant signals to 8 4K@60Hz (4:4:4), HDR, HDMI, HDCP (2.2/1.4)-compliant outputs at up to 18G data rate. Featuring Kramer re-Klocking™ and Equalization Technology that rebuilds the digital signal to travel longer distances. Note: For optimum range and performance, use recommended Kramer cables.
- HDMI Support - Deep Color, 3D, ARC, up to 7.1 uncompressed audio channels as specified in HDMI 2.0.
- Independent Audio Routing - Any embedded digital audio input can be routed to any digital output, in addition to ARC sources, to produce an equivalent 16x12 audio matrix (8 embedded digital inputs + 8 ARC inputs and 8 digital outputs + 4 ARC outputs).
- Easy Step-In Collaboration Function - When used with a Kramer Step-In enabled switcher, just plug in your device and press the Step-In button. Your device becomes the active signal on the main display.
- EDID Management - Individual EDID management per input. Captures and stores the EDID from a display device.
- Flexible Content Protection - Selectable HDCP per input.
- Quick Access to Common Configurations - Save up to 16 preset configurations.
- Smart Switching - Active source & acceptor detection. Automatic input selection based on priority selection or last connected input.
- Embedded Pattern Generator - With selectable patterns.
- Convenient Unit Control and Configuration Options - Local control via front panel switching, memory, lock and EDID buttons, and Input/Output LED display. Distance control via user-friendly embedded web pages via the Ethernet, Protocol 3000 API, and RS-232 serial commands transmitted by a PC, touch screen system or other serial controller.
- Cost-Effective Maintenance - Input selection indicators facilitate easy local maintenance and troubleshooting. Firmware upgrade via Ethernet or mini USB.
- Easy Installation - 19" enclosure for rack mounting in a 1U rack space with included rack ears and universal 100-240V AC power supply.

**VS-88H2A** 8x8 4K HDR HDCP 2.2 Matrix Switcher with Analog & Digital Audio Routing



**VS-88H2A** is a high-quality 8x8 matrix switcher for 4K@60Hz (4:4:4) HDR HDMI signals and analog and digital audio routing. It reclocks and equalizes the signals and can route any one of eight HDMI, HDCP-compliant sources (selectable) to any or all outputs simultaneously. **VS-88H2A** offers unmatched audio flexibility where any embedded digital or analog audio input can be routed to any embedded digital or analog audio output in addition to eight ARC sources to produce an equivalent 24x20 audio matrix.

HDR

4K60  
4:4:4  
HDCP 2.2

## FEATURES

- High-Performance AV Matrix - Switches 8 4K@60Hz (4:4:4), HDR, HDMI, HDCP, DVI-compliant signals to 8 4K@60Hz (4:4:4), HDR, HDMI, HDCP, DVI-compliant outputs at up to 18G data rate. Signals are HDCP 2.2/1.4 compliant. Featuring Kramer re-Klocking™ and Equalization Technology that rebuilds the digital signal to travel longer distances. Note: For optimum range and performance, use recommended Kramer cables.
- HDMI Support - Deep Color, 3D, ARC, up to 7.1 uncompressed audio channels as specified in HDMI 2.0.
- Independent Audio Routing - Any embedded digital or analog audio input can be routed to any embedded digital or analog audio output in addition to eight ARC sources to produce an equivalent 24x20 audio matrix (8 embedded digital inputs + 8 analog inputs + 8 ARC inputs and 8 digital outputs + 8 analog outputs + 4 ARC outputs).
- Easy Step-In Collaboration Function - When used with a Kramer Step-In enabled switcher, just plug in your device and press the Step-In button. Your device becomes the active signal on the main display.
- EDID Management - Individual EDID management per input. Captures and stores the EDID from a display device.
- Flexible Content Protection - Selectable HDCP per input.
- Quick Access to Common Configurations - Save up to 16 preset configurations.
- Smart Switching - Active source & acceptor detection. Automatic input selection based on priority selection or last connected input.
- Embedded Pattern Generator - With selectable patterns.
- Convenient Unit Control and Configuration Options - Local control via front panel: switching, memory, lock and EDID buttons, Input/Output LED display and IR remote control. Distance control using user-friendly embedded web pages via Ethernet, Protocol 3000 API, and RS-232 serial commands transmitted by a PC, touch screen system or other serial controller.
- Cost-Effective Maintenance - IR and Input Selection indicators facilitate easy local maintenance and troubleshooting. Firmware upgrade via Ethernet or mini USB.
- Easy Installation - 19" enclosure for rack mounting in a 1U rack space with included rack ears and universal 100-240V AC power supply.

## I Switchers & Matrices (continued)

**VS-66H2** 6x6 4K HDR HDCP 2.2 Matrix Switcher with Digital Audio Routing



**VS-66H2** is a high-performance 6x6 matrix switcher for 4K@60Hz (4:4:4) HDR signals and digital audio routing. It reclocks and equalizes the signals and can route any one of 6 HDMI, HDCP-compliant sources (selectable) to any or all outputs simultaneously. **VS-66H2** offers unmatched audio flexibility where any embedded digital audio input can be routed to any digital output in addition to six ARC sources to produce an equivalent 12x9 audio matrix.

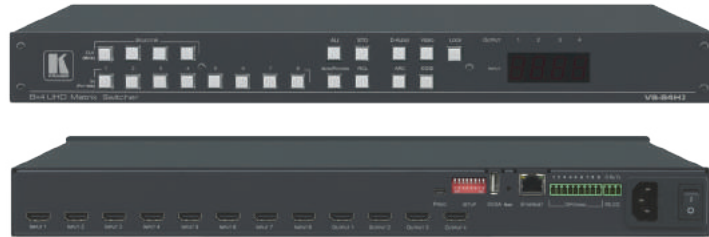
HDR

4K60  
4:4:4  
HDCP 2.2

### FEATURES

- High-Performance AV Matrix - Switches 8 4K@60Hz (4:4:4), HDR, HDMI, HDCP (2.2/1.4)-compliant signals to 8 4K@60Hz (4:4:4), HDR, HDMI, HDCP (2.2/1.4)-compliant outputs at up to 18G data rate. Featuring Kramer re-Klocking™ and Equalization Technology that rebuilds the digital signal to travel longer distances. Note: For optimum range and performance, use recommended Kramer cables.
- HDMI Support - Deep Color, 3D, ARC, up to 7.1 uncompressed audio channels as specified in HDMI 2.0.
- Independent Audio Routing - Any embedded digital audio input can be routed to any digital output, in addition to ARC sources, to produce an equivalent 12x9 audio matrix (6 embedded digital inputs + 6 ARC inputs and 6 digital outputs + 3 ARC outputs).
- Easy Step-In Collaboration Function - When used with a Kramer Step-In enabled switcher, just plug in your device and press the Step-In button. Your device becomes the active signal on the main display.
- EDID Management - Individual EDID management per input. Captures and stores the EDID from a display device.
- Flexible Content Protection - Selectable HDCP per input.
- Quick Access to Common Configurations - Save up to 16 preset configurations.
- Smart Switching - Active source & acceptor detection. Automatic input selection based on priority selection or last connected input.
- Embedded Pattern Generator - With selectable patterns.
- Convenient Unit Control and Configuration Options - Local control via front panel switching, memory, lock and EDID buttons, and Input/Output LED display. Distance control via user-friendly embedded web pages via the Ethernet, Protocol 3000 API, and RS-232 serial commands transmitted by a PC, touch screen system or other serial controller.
- Cost-Effective Maintenance - Input selection indicators facilitate easy local maintenance and troubleshooting. Firmware upgrade via Ethernet or mini USB.
- Easy Installation - 19" enclosure for rack mounting in a 1U rack space with included rack ears and universal 100-240V AC power supply.

## VS-84H2 8x4 4K HDR HDCP 2.2 Matrix Switcher with Digital Audio Routing



VS-84H2 is a high-performance 8x4 matrix switcher for 4K@60Hz (4:4:4) HDR signals and digital audio routing. It reclocks and equalizes the signals and can route any one of 8 HDMI, HDCP-compliant sources (selectable) to any or all outputs simultaneously. VS-84H2 offers unmatched audio flexibility where any embedded digital audio input can be routed to any digital output in addition to four ARC sources to produce an equivalent 12x8 audio matrix.

### FEATURES

- High-Performance AV Matrix - Switches 8 4K@60Hz (4:4:4), HDR, HDMI, HDCP (2.2/1.4)-compliant signals to 8 4K@60Hz (4:4:4), HDR, HDMI, HDCP (2.2/1.4)-compliant outputs at up to 18G data rate. Featuring Kramer re-Klocking™ and Equalization Technology that rebuilds the digital signal to travel longer distances. Note: For optimum range and performance, use recommended Kramer cables.
- HDMI Support - Deep Color, 3D, ARC, up to 7.1 uncompressed audio channels as specified in HDMI 2.0.
- Independent Audio Routing - Any embedded digital audio input can be routed to any digital output, in addition to ARC sources, to produce an equivalent 12x8 audio matrix (8 embedded digital inputs + 4 ARC inputs and 4 digital outputs + 4 ARC outputs).
- Easy Step-In Collaboration Function - When used with a Kramer Step-In enabled switcher, just plug in your device and press the Step-In button. Your device becomes the active signal on the main display.
- EDID Management - Individual EDID management per input. Captures and stores the EDID from a display device.
- Flexible Content Protection - Selectable HDCP per input.
- Quick Access to Common Configurations - Save up to 16 preset configurations.
- Smart Switching - Active source & acceptor detection. Automatic input selection based on priority selection or last connected input.
- Embedded Pattern Generator - With selectable patterns.
- Convenient Unit Control and Configuration Options - Local control via front panel switching, memory, lock and EDID buttons, and Input/Output LED display. Distance control via user-friendly embedded web pages via the Ethernet, Protocol 3000 API, and RS-232 serial commands transmitted by a PC, touch screen system or other serial controller.
- Cost-Effective Maintenance - Input selection indicators facilitate easy local maintenance and troubleshooting. Firmware upgrade via Ethernet or mini USB.
- Easy Installation - 19" enclosure for rack mounting in a 1U rack space with included rack ears and universal 100-240V AC power supply.



## I Switchers & Matrices (continued)

**VS-48H2** 4x8 4K HDR HDCP 2.2 Matrix Switcher with Digital Audio Routing



**VS-48H2** is a high-performance 4x8 matrix switcher for 4K@60Hz (4:4:4) HDR signals and digital audio routing. It reclocks and equalizes the signals and can route any one of 4 HDMI, HDCP-compliant sources (selectable) to any or all outputs simultaneously. **VS-48H2** offers unmatched audio flexibility where any embedded digital audio input can be routed to any digital output in addition to eight ARC sources to produce an equivalent 12x10 audio matrix.

HDR

4K60  
4:4:4  
HDCP 2.2

### FEATURES

- High-Performance AV Matrix - Switches 8 4K@60Hz (4:4:4), HDR, HDMI, HDCP (2.2/1.4)-compliant signals to 8 4K@60Hz (4:4:4), HDR, HDMI, HDCP (2.2/1.4)-compliant outputs at up to 18G data rate. Featuring Kramer re-Klocking™ and Equalization Technology that rebuilds the digital signal to travel longer distances. Note: For optimum range and performance, use recommended Kramer cables.
- HDMI Support - Deep Color, 3D, ARC, up to 7.1 uncompressed audio channels as specified in HDMI 2.0.
- Independent Audio Routing - Any embedded digital audio input can be routed to any digital output, in addition to ARC sources, to produce an equivalent 12x10 audio matrix (4 embedded digital inputs + 8 ARC inputs and 8 digital outputs + 2 ARC outputs).
- Easy Step-In Collaboration Function - When used with a Kramer Step-In enabled switcher, just plug in your device and press the Step-In button. Your device becomes the active signal on the main display.
- EDID Management - Individual EDID management per input. Captures and stores the EDID from a display device.
- Flexible Content Protection - Selectable HDCP per input.
- Quick Access to Common Configurations - Save up to 16 preset configurations.
- Smart Switching - Active source & acceptor detection. Automatic input selection based on priority selection or last connected input.
- Embedded Pattern Generator - With selectable patterns.
- Convenient Unit Control and Configuration Options - Local control via front panel switching, memory, lock and EDID buttons, and Input/Output LED display. Distance control via user-friendly embedded web pages via the Ethernet, Protocol 3000 API, and RS-232 serial commands transmitted by a PC, touch screen system or other serial controller.
- Cost-Effective Maintenance - Input selection indicators facilitate easy local maintenance and troubleshooting. Firmware upgrade via Ethernet or mini USB.
- Easy Installation - 19" enclosure for rack mounting in a 1U rack space with included rack ears and universal 100-240V AC power supply.

**VS-34FD** 8K-Ready 34-Port Multi-Format Digital Matrix Switcher with Interchangeable I/Os

**FLEX I/O**



**VS-34FD** is a high performance, 34-port, 8K-ready, multi-format, modular matrix switcher for AV signals, including HDMI™, HDBaseT, DGKat, fiber optic, DVI, VGA, SDI, as well as analog and digital audio. The modular chassis features 17 slots for installing a full range of input/output modules and can be populated as 2x32, 32x2 or any other configuration in between in increments of two inputs or two outputs. The chassis includes a control module, a test module that can monitor and test any input and output in the matrix, and an additional redundant power supply for optional installation.

**FEATURES**

- High-Performance Modular Matrix Switcher - Professional, 8K-ready matrix for switching multi-format AV signals. Features Kramer Equalization & re-Klocking™ Technology that rebuilds the digital signal to travel longer distances. For optimum range and performance, use recommended Kramer cables.
- Modular & Easily Configurable Platform - Input and output module types can be mixed and added in increments of 2, creating a matrix of 2 x 32, 32 x 2 or any configuration in between. Select from a full array of popular and legacy formats to populate the chassis. This matrix is compatible with existing modular matrix modules.
- Flexible Infrastructure Conversion - Kramer Core™ technology enables copper, fiber or twisted pair to be used at the same time, according to input/output module selection. The matrix receives signals from compatible Kramer transmitters, automatically converts between available infrastructure options and sends the signals to compatible Kramer receivers.
- Quick and Efficient Management - Compatible with Kramer Network enterprise management platform providing: Automatic discovery through the network, FW upgrade management for matrix and cards, identification of card type and location and indication of card status (module ID, actual firmware versions), matrix switching, specific card features configuration (for example, volume levels on audio cards), store and recall of predefined switching scenarios, integrated Maestro automation, and more.
- Content Protection Support - HDCP 2.2 compliant, with compatible DVI, HDMI, HDBaseT, and DGKat modules. Supports disabling HDCP when needed.
- Fast Switching Support on Outputs (optional) - Reduces or removes switching delay.
- EDID Management - Individual EDID management per input. Captures and stores the EDID from a display device.
- Test Pattern Module (optional) - With 4 output resolutions for troubleshooting video problems and additional monitor port with audio embedding and de-embedding.
- Second Power Supply - Redundant, hot-swappable for optional installation.
- Flexible Control Options - Local control from the front panel, including: switching, executing multiple switches simultaneously, storage and recall of multiple switching configurations, front panel lockout. Distance control using IR remote (included), user-friendly K-Router™ Windows®-based software (included) via RS-232, Protocol 3000 API via Ethernet or RS-232.
- Modular Cooling System - 2 easily replaceable, low-noise, hot-swappable fan racks.
- Cost-Effective Maintenance - Power and IR LEDs and LCD display facilitate easy local maintenance and troubleshooting. Local FW upgrade via mini USB port, in/out audio jacks for unit testing, and reset button for convenient unit reset (for future use) ensure lasting, field-proven deployment.
- Easy Installation - 19" enclosure for rack mounting in a 3U rack space with included rack ears and universal 100-240V AC power supply.

## I Switchers & Matrices (continued)

**H2A-IN2-F34** 2-Channel 4K HDR HDMI Input Card with Selectable Embedded, De-embedded or ARC Analog Audio



**H2A-IN2-F34** is a two-channel 4K@60Hz (4:4:4) HDMI input card with configurable analog audio features for compatible Kramer Modular Multi-Format Digital Matrix Switchers. **H2A-IN2-F34** inputs two 4K HDMI signals with selectable ARC (on the upper port), embedded, or de-embedded unbalanced stereo audio.

### FEATURES

- Max. Data Rate - 18Gbps (6Gbps per graphics channel).
- Max. Resolution - 4K@60Hz (4:4:4).
- HDMI Support - 3D, Deep Color, x.v.Color™, ARC, Dolby® TrueHD, Dolby Digital Plus, DTS-HD®, and 7.1 multi-channel audio.
- Analog Audio Embedding/De-embedding - On the same jack and ARC.
- HDCP 2.2/1.4 Compliant.
- 3D Pass-Through.
- EDID Capture - Copies and stores the EDID from a display device.
- Kramer Equalization and re-Klocking Technology.

**H2A-OUT2-F34** 2-Channel 4K HDR HDMI Output Card with Selectable Embedded, De-embedded or ARC Analog Audio



**H2A-OUT2-F34** is a two-channel 4K@60Hz (4:4:4) HDMI output card with configurable analog audio features for compatible Kramer Modular Multi-Format Digital Matrix Switchers. **H2A-OUT2-F34** outputs two 4K HDMI signals with selectable ARC (on the upper port), embedded, or de-embedded unbalanced stereo audio.

### FEATURES

- Max. Data Rate - 18Gbps (6Gbps per graphics channel).
- Max. Resolution - 4K@60Hz (4:4:4).
- HDMI Support - 3D, Deep Color, x.v.Color™, ARC, Dolby® TrueHD, Dolby Digital Plus, DTS-HD®, and 7.1 multi-channel audio.
- Analog Audio Embedding/De-embedding - On the same jack and ARC.
- HDCP 2.2/1.4 Compliant.
- 3D Pass-Through.
- EDID Capture - Copies and stores the EDID from a display device.
- Kramer Equalization and re-Klocking Technology.

HDR

4K60  
4:4:4  
HDCP 2.2

**DTAxr-IN2-F34** 2-Channel 4K HDR HDMI over Extended Reach HDBaseT Input Card with Selectable Embedded or De-embedded Analog Audio



**DTAxr-IN2-F34** is a 2-channel, 4K@60Hz (4:4:4), HDMI, analog audio, bidirectional RS-232, Ethernet, & IR over HDBaseT twisted pair receiver card for compatible Kramer Modular Multi-Format Digital Matrix Switchers. **DTAxr-IN2-F34** inputs two extended-reach HDBaseT signals with selectable embedded/de-embedded analog audio, bidirectional RS-232, Ethernet, and IR from the line to the chassis.

**FEATURES**

- Max. Data Rate - 18Gbps (6Gbps per graphics channel).
- Max. Resolution - 4K@60Hz (4:4:4).
- Analog Audio Embedding/De-embedding - On the same jack
- HDBaseT Technology - HDTV compatible, HDCP compliant.
- System Range - Up to 100m at normal mode (4K), up to 130m (430ft) at normal mode (2K), up to 180m (590ft) ultra mode (1080p @60Hz @24bpp). Note: When using Kramer HDBaseT cables.
- Ethernet Extension - Ethernet interface data flows in both directions, allowing extension of up to 100Mbps Ethernet connectivity for LAN communication and device control.
- Bidirectional RS-232 Extension - Serial interface data flows in both directions, allowing data transmission and device control.
- Bidirectional Infrared Extension - IR interface data flows in both directions, allowing remote control of peripheral devices located at either end of the extended line.
- 3D Pass-Through.

HDR

4K60  
4:4:4  
HDCP 2.2

**DTAxr-OUT2-F34** 2-Channel 4K HDR HDMI over Extended Reach HDBaseT Output Card with Selectable Embedded or De-embedded Analog Audio



**DTAxr-OUT2-F34** is a two-channel, 4K@60Hz (4:4:4), HDMI, analog audio, bidirectional RS-232, Ethernet, & IR over HDBaseT twisted pair transmitter card for compatible Kramer Modular Multi-Format Digital Matrix Switchers. **DTAxr-OUT2-F34** outputs two extended-reach HDBaseT signals with selectable embedded/de-embedded analog audio, bidirectional RS-232, IR, and Ethernet from the chassis to the line.

**FEATURES**

- Max. Data Rate - 18Gbps (6Gbps per graphics channel).
- Max. Resolution - 4K@60Hz (4:4:4).
- Analog Audio Embedding/De-embedding - On the same jack
- HDBaseT Technology - HDTV compatible, HDCP compliant.
- System Range - Up to 100m at normal mode (4K), up to 130m (430ft) at normal mode (2K), up to 180m (590ft) ultra mode (1080p @60Hz @24bpp). Note: When using Kramer HDBaseT cables.
- Ethernet Extension - Ethernet interface data flows in both directions, allowing extension of up to 100Mbps Ethernet connectivity for LAN communication and device control.
- Bidirectional RS-232 Extension: - Serial interface data flows in both directions, allowing data transmission and device control.
- Bidirectional Infrared Extension: - IR interface data flows in both directions, allowing remote control of peripheral devices located at either end of the extended line.
- 3D Pass-Through.



# Extenders





## I Extenders

**WP-872xr** 4K HDR HDMI 1-Gang PoC Wall-Plate Receiver over Long-Reach DGKat 2.0



US



EU / UK



**WP-872xr** is a high-performance, long-reach DGKat™ 2.0 wall-plate receiver for 4K@60Hz (4:4:4) HDR, HDMI, HDCP 2.2 signals and power over twisted pair. It converts the transmitted DGKat™ 2.0 signal into an HDMI signal. **WP-872xr** extends the signal to up to 60m (200ft) at 4K@60Hz (4:4:4) resolution and up to 70m (230ft) at 4K@30Hz (4:4:4) 24bpp resolution over Kramer shielded cables. This wall-plate can either provide or accept power through PoC (Power over Copper) over the twisted pair cable.

### FEATURES

- High-Performance Receiver - Professional DGKat™ 2.0 receiver for providing long-reach signals over twisted pair copper infrastructures. WP-872xr receiver employs high-level video compression technology that delivers visually lossless performance for 4K@60Hz (4:4:4) HDR signals with near-zero latency. It converts the transmitted DGKat™ 2.0 signal into an HDMI signal.
- HDMI Signal Extension - Supports HDR, HDCP 2.2, deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0.
- EDID Pass-through - Pass-through algorithm ensures Plug and Play operation for HDMI source and display systems.
- Multi-channel Audio Extension - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound.
- Low Profile Wall-Plate - Designed for elegant, in-wall deployment behind a wall-mounted flat panel display. Minimizes the depth of the installation, especially when connected with a Kramer right-angle HDMI cable.
- Cost-Effective Maintenance - Power and connectivity status LED indicator facilitates easy local maintenance and troubleshooting.
- Easy Installation - Compactly fits into standard US, EU and UK 1-gang in-wall box size, supporting decorative integration with room deployed user interfaces such as electrical switches. Wall-plate installation is fast and cost-effective via a single twisted pair cable, providing both video signal and power (PoC) connections.

**WP-789R** 4K60 4:2:0 HDMI 2-Gang PoE Wall-Plate Receiver with RS-232 & IR over Long-Reach HDBaseT



**WP-789R** is a high-performance, long-reach HDBaseT wall-plate receiver for 4K@60Hz (4:2:0) HDMI and HDCP 2.2 signals over twisted pair. It converts the transmitted HDBaseT signal into an HDMI signal. It extends video signals up to 40m (130ft) over Kramer copper cables at 4K@60Hz (4:2:0) 24bpp video resolution and provides even further reach for lower HD video resolutions. This wall-plate is powered through PoE (Power over Ethernet) over the twisted pair cable.

### FEATURES

- High Performance Receiver - Professional HDBaseT receiver for providing long-reach signals over twisted pair copper infrastructures. WP-789R is a standard extender that can be connected to any market-available HDBaseT-compliant extension product. For optimum extension reach and performance, use recommended Kramer cables.
- Reliable PoE (Power over Ethernet) Powering - Auto-senses the extension line PoE status, and accepts power from a remote PoE provider such as a PoE matrix, with optional mains powering from connected power adapter.
- HDMI Signal Extension - Supports HDCP 2.2, deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0.
- EDID Pass-through - Pass-through algorithm ensures Plug and Play operation for HDMI source and display systems.
- Multi-channel Audio Extension - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound.
- Low Profile Wall-Plate - Designed for elegant, in-wall deployment behind a wall-mounted flat panel display. Minimizes the depth of the installation, especially when connected with a Kramer right-angle HDMI cable.
- Cost-Effective Maintenance - Power and connectivity status LED indicator facilitates easy local maintenance and troubleshooting.
- Easy Installation - Fits into standard US, EU and UK 2-gang in-wall box size, supporting decorative integration with room deployed user interfaces such as electrical switches. Wall-plate installation is fast and cost-effective via a single twisted pair cable, providing both video signal and power (PoE) connections.

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**PT-2UT/R** USB 2.0 PoC Extender Kit over Extended-Reach HDBaseT



**PT-2UT/R** is a comprehensive, extended-reach HDBaseT extender kit for USB 2.0, RS-232 and audio signals and 2-way powering over twisted pair. The PT-2UT transmitter converts the USB input signal into an HDBaseT signal. The PT-2UR receiver converts the transmitted HDBaseT signal into a USB signal.

#### FEATURES

- Comprehensive USB Extender - Plug & play USB extender kit for providing extended-reach HDBaseT signals and 2-way power over twisted pair copper infrastructures. A local USB host is auto-connected to remote-connected USB devices employing either interrupt, bulk or isochronous USB 2.0 standard data transfer communication.
- Flexible USB Connectivity - Wide Variety of USB peripheral devices can be extended including cameras, touch screens, smart boards, hard drives, game controllers, audio devices, printers, scanners, or HID (Human Interface Devices) devices such as a mouse or keyboard. Dual role and OTG (On The Go ) devices such as smart phones and tablets, connected either to a transmitter-side USB host port or receiver-side USB device port, can communication with a remote host or peripheral pairing device.
- Remote USB Charging - Fast USB charging of peripheral devices when the receiver is powered by a power supply, and standard USB charging when the receiver is powered by the transmitter via HDBaseT.
- Bidirectional RS-232 Extension - Serial interface data flows in both directions, allowing data transmission and device control.
- Audio Extension - Send an audio signal from an audio source connected to the transmitter to an active audio playing device connected to the receiver.
- Cost-Effective Maintenance - Status LED indicators facilitate easy local maintenance and troubleshooting.
- Easy Installation - Single twisted-pair cable for signal and power wiring. Compact Pico TOOLS™ fan-less enclosure for device-back mounting, or side-by-side mounting of 4 units in a 1U rack space with the recommended rack adapter.

## I Extenders (continued)

**TP-594Txr** 4K HDR HDMI Transmitter with Ethernet, RS-232, IR, ARC & Stereo Audio Routing over PoE Extended-Reach HDBaseT 2.0



HDR

4K60  
4:4:4  
HDCP 2.2

**TP-594Txr** is a high-performance, extended-reach HDBaseT 2.0 transmitter for 4K@60Hz (4:4:4) HDR, HDMI™, Ethernet, RS-232, IR, ARC (Audio Return Channel) and stereo audio signals over twisted pair. **TP-594Txr** converts all input signals into the transmitted HDBaseT 2.0 signal and enables routing the received ARC signal to the HDMI input and to the digital/analog audio ports. It extends video signals to up to 100m (330ft) over CAT copper cables at up to 4K@60Hz (4:4:4) 24bpp video resolution and provides even further reach for lower HD video resolutions. The analog port also enables embedding audio into the HDBaseT signal.

### FEATURES

- High Performance Standard Extender - Professional HDBaseT extender for providing extended-reach signals over twisted-pair copper infrastructures. TP-594Txr is a standard extender with backward HDBaseT compatibility, enabling it to be connected to any market-available HDBaseT-compliant extension product. It employs standard low-level video compression technology that delivers visually lossless performance for 4K@60 (4:4:4) and HDR signals with near-zero latency. For optimum extension reach and performance, use recommended Kramer cables.
- Future-Proof, Standard Extender - Standard HDBaseT extender, backwards compatible with other standard HDBaseT extenders. It extends either compressed or uncompressed HDBaseT signal, by auto-adapting to the compression capabilities of its connected extender. This enables it to be connected to any market-available HDBaseT-compliant extension product.
- Intelligent Compression Handling - Automatically detects the compression capabilities of a standard HDBaseT extender. Then, it either enables compression when the detected compression is compatible or disables compression when the detected compression is not compatible or when it detects that compression is not supported at all.
- HDMI Signal Extension - Supports HDCP 2.2, deep color, x.v.Color™, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, CEC, and 3D as specified in HDMI 2.0.
- I-EDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling, processing and pass-through algorithm that ensures Plug and Play operation for HDMI source and display systems.
- Multi-channel Audio Transmission - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound.
- Intelligent Source Forward Audio Routing - A balanced analog stereo audio port signal is converted into a digital signal and embedded into the transmitted HDMI signal, replacing the embedded HDMI audio input signal. This enables embedding a selectable audio source over HDMI. For example, a presenter can display a video clip and temporarily override the audio of the source media with another audio source, such as from a microphone.
- Audio Extension - Audio channels data flows in both directions, allowing extension of both, transmitter forward-audio channels and receiver return-channel, to peer connected devices.
- Intelligent ARC (Audio Return Channel) Routing - The HDBaseT-ARC signal is routed to the HDMI input and, in parallel, you can select to route the ARC signal to the digital output and/or analog audio bidirectional port. This enables you to play the audio on high-quality external speakers and control the volume using an IR remote control either via a receiver-side AV acceptor device (such as a display) or via a transmitter-side AV acceptor device (such as an AV Receiver with speakers).
- Built-in Intelligent Control Gateway - Remote IP-driven intelligent control of connected AV devices, via CEC (through the HDMI output) or RS-232/IR (through the corresponding output ports), using existing LAN or HDBaseT connectivity. Eliminating the need for an external control gateway, this feature reduces installation complexity and costs, to enable easy integration with control systems, such as Kramer Control.
- Ethernet Extension - Ethernet interface data flows in both directions, allowing extension of up to 100Mbps Ethernet connectivity for LAN communication and device control.
- Bidirectional RS-232 Extension - Serial interface data flows in both directions, allowing data transmission and device control.
- Bidirectional Infrared Extension - IR interface data flows in both directions, allowing remote control of peripheral devices located at either end of the extended line.
- Cost-Effective Maintenance - PoE, link, input detection and power LED indicators for HDMI and HDBT ports, remote web UI management and support, and RS-232 connection for local technician management and support, facilitate easy local maintenance and troubleshooting. Remote firmware upgrade via Ethernet or local via USB connection, ensure lasting, field-proven deployment.
- Easy and Elegant Installation - Single cable connectivity for both HDBaseT signals and power. Compact MegaTOOLS™ fan-less enclosure for dropped-ceiling mounting, or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter.

**TP-594Rxr** 4K HDR HDMI Receiver with Ethernet, RS-232, IR, ARC & Stereo Audio Routing over PoE Extended-Reach HDBaseT 2.0



HDR

4K60  
4:4:4  
HDCP 2.2

**TP-594Rxr** is a high-performance, extended-reach HDBaseT 2.0 receiver for 4K@60Hz (4:4:4) HDR, HDMI™, Ethernet, RS-232, IR, ARC (Audio Return Channel) and stereo audio signals over twisted pair. **TP-594Rxr** receives extended HDBaseT 2.0 signals and converts them back to HDMI, Ethernet, RS-232, IR, ARC and stereo audio signals. It extends video signals to up 100m (330ft) over CAT copper cables at up to 4K@60Hz (4:4:4) 24bpp video resolution and provides even further reach for lower HD video resolutions.

## FEATURES

- High Performance Standard Extender - Professional HDBaseT extender for providing extended-reach signals over twisted-pair copper infrastructures. TP-594Rxr is a standard extender with backward HDBaseT compatibility, enabling it to be connected to any market-available HDBaseT-compliant extension product. It employs low-level video compression technology that delivers visually lossless performance for 4K@60 (4:4:4) and HDR signals with near-zero latency. For optimum extension reach and performance, use recommended Kramer cables.
- Future-Proof, Standard Extender - Standard HDBaseT extender, backwards compatible with other standard HDBaseT extenders. It extends either compressed or uncompressed HDBaseT signal, by auto-adapting to the compression capabilities of its connected extender. This enables it to be connected to any market-available HDBaseT-compliant extension product.
- Built-in Intelligent Control Gateway - Remote IP-driven intelligent control of connected AV devices, via CEC (through the HDMI output) or RS-232/IR (through the corresponding output ports), using existing LAN or HDBaseT connectivity. Eliminating the need for an external control gateway, this feature reduces installation complexity and costs, to enable easy integration with control systems, such as Kramer Control.
- Intelligent Compression Handling - Automatically detects the compression capabilities of a standard HDBaseT extender. Then, it either enables compression when the detected compression is compatible or disables compression when the detected compression is not compatible or when it detects that compression is not supported at all.

- HDMI Signal Extension - Supports HDCP 2.2, deep color, x.v.Color™, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, CEC, and 3D as specified in HDMI 2.0.
- I-EDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling, processing and pass-through algorithm that ensures Plug and Play operation for HDMI source and display systems.
- Multi-channel Audio Transmission - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound.
- Intelligent Source Forward Audio Routing - As selected by the user, the transmitted digital audio signal is de-embedded from the AV signal and converted to an analog signal for transmission to the stereo balanced analog audio output, as well as to the HDMI AV output. This enables high-quality audio playback by routing the audio to external speakers in addition to routing the audio to the connected AV acceptor device's local speakers (such as TV with speakers).
- Audio Extension - Audio channels data flows in both directions, allowing extension of both, transmitter forward-audio channels and receiver return-channel, to peer connected devices.
- Intelligent ARC (Audio Return Channel) Routing - As selected by the user, the ARC signal received from the HDMI output, the digital audio input, or the analog audio bidirectional port is routed back to the transmitter via the HDBaseT link. This enables high-quality ARC playback and user volume control by routing the ARC to audio speakers connected on the transmitter side, either directly or via an AV acceptor device (such as an AV Receiver with speakers).
- Ethernet Extension - Ethernet interface data flows in both directions, allowing extension of up to 100Mbps Ethernet connectivity for LAN communication and device control.
- Bidirectional RS-232 Extension - Serial interface data flows in both directions, allowing data transmission and device control.
- Bidirectional Infrared Extension - IR interface data flows in both directions, allowing remote control of peripheral devices located at either end of the extended line.
- Cost-Effective Maintenance - Useful LED indicators, remote web UI management and support, and RS-232 connection for local technician management and support, facilitate easy local maintenance and troubleshooting. Remote firmware upgrade via Ethernet or local via USB connection, ensure lasting, field-proven deployment.
- Quick and Efficient Management - Compatible with Kramer Network enterprise management platform providing: Automatic discovery through the network, FW upgrade management, integrated Maestro automation, and more.
- Easy and Elegant Installation: - Single cable connectivity for both HDBaseT signals and power. Compact MegaTOOLS™ fan-less enclosure for dropped-ceiling mounting, or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter.

## I Extenders (continued)

**675T** 4K60 4:4:4 HDMI Transmitter over Ultra-Reach MM/SM Fiber Optic



**675T** is a high-performance HDMI fiber transmitter for ultra-reach extension of 4K60Hz (4:4:4) HDMI signals over multi-mode or single-mode fiber optic. **675T** converts the HDMI input signal to an optical signal that is transmitted over a fiber optic cable to a compatible receiver that converts it back to an HDMI signal.

### FEATURES

- High Performance Standard Fiber Extender - HDMI fiber transmitter for providing ultra-reach signals over either multi-mode or single-mode optical fiber infrastructures, using Kramer pluggable OSP SFP+ units. Near-zero latency video chroma sub-sampling conversion technology, is employed to auto-adapt above 10G HDMI signals to 10G optical link signal data-rate. Note: To ensure specified performance, support, and warranty of this product, use only Kramer's certified hi-performance OSP SFP+ pluggable optical units.
- HDMI Signal Extension - HDCP 2.2 compliant and supports up to 18G (6G per channel) data rate, LPCM 7.1, Dolby True HD, and DTS-HD as specified in HDMI 2.0.
- I-EDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling, processing and pass-through algorithm that ensures Plug and Play operation for HDMI source and display systems.
- Cost-Effective Maintenance - Status LED indicators for power, source, sink and fiber link connections detection facilitate easy local troubleshooting.
- Easy Installation - DigiTOOLS® rack mountable fan-less enclosure enables side-by-side mounting of 3 units in a 1U rack space with the recommended rack adapter.

**675R** 4K60 4:4:4 HDMI Receiver over Ultra-Reach MM/SM Fiber Optic



**675R** is a high-performance HDMI fiber receiver for ultra-reach extension of 4K60Hz (4:4:4) HDMI signals over multi-mode or single-mode fiber optic. **675R** receives the transmitted optical signal from a compatible transmitter and converts it to an HDMI signal.

### FEATURES

- High Performance Standard Fiber Extender - HDMI fiber transmitter for providing ultra-reach signals over either multi-mode or single-mode optical fiber infrastructures, using Kramer pluggable OSP SFP+ units. Near-zero latency video chroma sub-sampling conversion technology, is employed to auto-adapt above 10G HDMI signals to 10G optical link signal data-rate. Note: To ensure specified performance, support, and warranty of this product, use only Kramer's certified hi-performance OSP SFP+ pluggable optical units.
- HDMI Signal Extension - HDCP 2.2 compliant and supports up to 18G (6G per channel) data rate, LPCM 7.1, Dolby True HD, and DTS-HD as specified in HDMI 2.0.
- I-EDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling, processing and pass-through algorithm that ensures Plug and Play operation for HDMI source and display systems.
- Cost-Effective Maintenance - Status LED indicators for power, source, sink, and fiber link connections detection facilitate easy local troubleshooting.
- Easy Installation - DigiTOOLS® rack mountable fan-less enclosure enables side-by-side mounting of 3 units in a 1U rack space with the recommended rack adapter.



## VA-4X 4-Channel 4K HDMI Extender / Toolbox



VA-4X is a versatile 4K@60Hz (4:4:4) HDMI multi-channel extender that equalizes and reclocks TMDs data before re-transmitting the signal, thus increasing the HDMI cable range for all 4 outputs. It is a true 4-channel HDMI "Toolbox", with functionality including 4 independent test-pattern generators, chroma sub-sampling down-conversion and EDID management options.

### FEATURES

- Extension without Loss of Quality - Kramer Equalization & re-Klocking™ Technology rebuilds the digital signal integrity to travel longer distances. Typically extends 4K@60Hz (4:4:4) signals 20m from point to point (10m on the input and 10m on the output).
- Zero-latency compression - Enables reducing 4K@60Hz resolution from 4:4:4 to 4:2:2 or 4:2:0 chroma sampling on up to four inputs/outputs.
- Easy EDID Management - Via a user-friendly software application or OSD menu, select from the following EDID options: default (internal), external (sink) or user defined EDID.
- Content Protection Compatibility - Interoperability between HDCP 2.2 and HDCP 1.4 systems for up to 4 HDMI sources simultaneously.
- Comprehensive Signal Testing - Independent pattern generator on each output with a variety of patterns and resolutions to choose from.
- Local Control and Configuration - Use the OSD menu via front panel buttons for management and control of the EDID, chroma reduction and pattern generator, and for firmware upgrade and factory reset. Convenient USB port for EDID application control and firmware upgrade.
- Easy Installation - Compact MegaTOOLS® fan-less enclosure for surface mounting or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter.

## KIT-400 4K Auto-Switcher/Scaler Kit over Long-Reach HDBaseT



KIT-400 is a high-performance auto-switcher/scaler kit for 4K HDMI™ and computer graphics (VGA) over long-reach HDBaseT. The kit includes the KIT-400T transmitter/switcher and the KIT-400R receiver/scaler. The KIT-400T transmitter converts the user-selected input signal into the transmitted HDBaseT signal. The KIT-400R receiver receives the HDBaseT signal, converts it to HDMI and up- or down-scales the picture to match the resolution of the HDMI monitor. KIT-400 extends video signals to up to 40m (130ft) over CAT copper cables at up to 4K@60Hz (4:2:0) 24bpp video resolution and provides even further reach for lower HD video resolutions.

### FEATURES

- Simple and Powerful Maestro Room Automation - Intuitive user interface enables you to fully automate your meeting room elements. Configure lights, shades, devices and more to be activated by an extensive range of triggers, including scheduling, input/output connectivity, routing, and button pressing. By minimizing user intervention, Maestro room automation saves meeting prep time and minimizes human error before presentations.
- HDMI Signal Extension - HDCP 1.4 / 2.2, 4K60, CEC, xvYCC color (on input), Dolby TrueHD/DTS-HD Master Audio as specified in HDMI 2.0. EDID and CEC signals are passed through from the source to the display.
- PoC (Power over Cable) Enabled - Choose to power only one of the units and power the other unit of the receiver/transmitter pair over the HDBaseT extension.
- Local Switching Control of 3 Local and 1 Remote Source - Select from 4 sources, each with a dedicated selector button on the transmitter front panel, to output to an HDMI display: 2 HDMI inputs and 1 computer graphics (VGA) input, with dedicated audio jack, on the transmitter side and an additional HDMI input on the receiver side.
- Audio De-embedding - Output the HDMI audio to a balanced stereo output on the receiver side.
- Bidirectional RS-232 Extension - Serial interface data flows in both directions, allowing data transmission and device control.
- I-EDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling, processing and pass-through algorithm that ensures Plug and Play operation for HDMI source and display systems.



## I Extenders (continued)

**WP-3H2** 4K HDR HDMI Wall-Plate Extender (EU, UK, US)



US



EU / UK

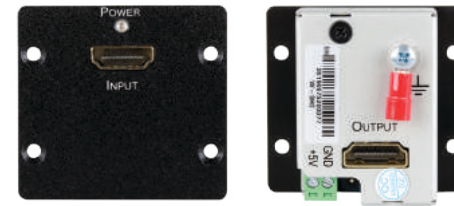


**WP-3H2** is a 4K HDR HDMI wall-plate extender that extends the HDMI cable distance between the HDMI player and the HDMI display by reclocking and regenerating the HDMI signal. Placing **WP-3H2** in the transmission path, removes dropout and digital noise (sparkles) in your picture that may result from using long HDMI cables.

### FEATURES

- Extends HDMI Transmission Distance - Extends 4K@60Hz (4:4:4) signals up to 20m from the source (10m from the source to the HDMI Extender, and 10m from the HDMI extender to the display).
- Supports the DDWG standard for HDMI compliant displays.
- HDMI Support - Supports HDR10, ARC, CEC, deep color, x.v.Color™, Lip Sync, 7.1 PCM, Dolby TrueHD, Dolby atmos DTS-HD, 2K, 4K, and 3D Dolby Vision as specified in HDMI 2.0.
- Supports the DDWG standard for HDMI compliant displays.
- Content Protection - HDCP 1.4 and HDCP 2.2 compliant.
- Wall Plate - 1 gang European or US.

**W-3H2** 4K HDR HDMI Dual Insert Extender



**W-3H2** is a 4K HDR HDMI dual insert extender that extends the HDMI cable distance between the HDMI player and the HDMI display by reclocking and regenerating the HDMI signal. Placing **W-3H2** in the transmission path, removes dropout and digital noise (sparkles) in your picture that may result from using long HDMI cables.

### FEATURES

- Extends HDMI Transmission Distance - Extends 4K@60Hz (4:4:4) signals up to 20m from the source (10m from the source to the HDMI Extender, and 10m from the HDMI extender to the display).
- Supports the DDWG standard for HDMI compliant displays.
- HDMI Support - Supports HDR10, ARC, CEC, deep color, x.v.Color™, Lip Sync, 7.1 PCM, Dolby TrueHD, Dolby atmos DTS-HD, 2K, 4K, and 3D Dolby Vision as specified in HDMI 2.0.
- Supports the DDWG standard for HDMI compliant displays.
- Content Protection - HDCP 1.4 and HDCP 2.2 compliant.

**WP-3H2 PANEL SET** Black Frame and Faceplate Set for US or EU/UK Size Wall Plates



**WP-3H2 PANEL SET** is a black frame and faceplate set to replace the standard frame and faceplate that is included with the **WP-3H2** wall plate.

# Scalers & Converters



## I Scalers & Converters

**VP-427UHD** 4K HDBT Receiver / Scaler Tool with HDBaseT and HDMI Inputs



**VP-427UHD** is a comprehensive 4K HDBaseT receiver scaler with a local HDMI input. It supports automatic and manual switching between the 2 inputs, with fast and visually seamless transitions. The unit up-scales, down-scales, and cross-scales to resolutions up to 4K@60 (4:2:0). The output resolution is set by the user or follows the native resolution of the source.

### FEATURES

- Comprehensive Receiver/Scaler - Scales signals of all standard resolutions up to 4K (4:2:0) for routing to the HDMI output. Constant output sync prevents signal disruption when switching between inputs and when no video is detected.
- Flexible Audio Output - Analog balanced stereo and digital S/PDIF outputs for de-embedding the audio output.
- Data Tunneling - Extend RS-232, IR, and Ethernet over the HDBaseT line.
- Cost-Effective and Convenient Control Options - Ethernet and RS-232 serial ports, and local control via front panel input selection and OSD menu buttons.
- Versatile Powering Options - Power the unit with PoE (Power over Ethernet) over the HDBaseT line or with the power adapter.
- Easy Installation - Single cable connectivity for both the HDBaseT signal and PoE power. Compact MegaTOOLS® fan-less enclosure for surface mounting or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter.

HDR

4K60  
4:4:4  
HDCP 2.2

**VP-451** 18G 4K HDR HDMI ProScale™ Digital Scaler with HDMI and USB-C Inputs



**VP-451** is a high-performance 18G 4K digital scaler for HDMI and USB-C signals. The unit up-scales, down-scales, and cross-scales to resolutions up to 4K@60 (4:4:4). The output resolution can be set to automatically follow the native resolution of the sink or set manually to a custom resolution.

### FEATURES

- High-Performance Professional Scaler - Supports HDR10 and HDCP 2.2/1.4, and features input auto-switching, constant sync on the output even if the input video signal is lost or interrupted, and a built-in ProcAmp for convenient signal adjustment.
- Fast, Smooth Manual and Auto Switching Between Sources - Select the USB Type-C or one of the HDMI inputs, or configure the device to automatically select the active source.
- Flexible Analog Audio Embedding and Extraction (De-embedding) - The user can select the unbalanced analog audio input to embed into the HDMI output signal. On the output, the user can select to extract the audio signal and output it as balanced analog audio.
- USB-C Powering - Provides up to 60W of power via the USB-C input.
- Automatic Display Control - Supports CEC that enables automatically turning the display on and off.
- Convenient Unit Control - Control the unit using an OSD (On-Screen Display) via front panel buttons and input selector, video freeze and resolution reset front panel buttons. Additionally, connect to the contact closure connector for remote switching of sources. All settings are saved in non-volatile memory.
- User-Friendly Operation - LED indicator for each input and for power status. Local firmware upgrade via the USB type-A port ensures lasting, field-proven deployment.
- Easy Installation - Compact MegaTOOLS® fan-less enclosure for surface mounting or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter.

# Audio



## I Audio

**AFM-20DSP** 20-Port Audio Matrix with DSP and Interchangeable Inputs & Outputs

**FLEX I/O**  
**XSPerience**



**AFM-20DSP** is a member of the Kramer XSPerience family of DSP products. **AFM-20DSP** is an advanced, professional audio matrix switcher with 20 analog ports that can be configured as inputs or outputs according to preset I/O configurations. **AFM-20DSP** includes multi-channel DSP, built-in 2x60W @ 8Ω and 1x120W @ 70V / 100V power amplifier, 4x4 Dante interface, HDMI embedding and de-embedding, and S/PDIF. The comprehensive and user-friendly graphic interface makes configuring every detail of your audio system intuitive and easy.

### FEATURES

- Advanced Audio Matrix Switcher - Professional, studio grade signal conversion technology, including the latest generation 32-bit advanced Digital Analog Converter architecture to achieve excellent dynamic performance and improved tolerance to clock jitter. Maintains the quality of the original audio signal with selectable sampling rates up to 96 kHz. Flat frequency response, unmatched sonic performance, excellent signal to noise ratio, and extraordinarily low distortion levels.
- Wide Range of I/O Formats - Includes 20 analog ports, 4x4 Dante interface, HDMI input and output, and S/PDIF input and output.
- Multi-Channel Processing - Provides DSP (Digital Sound Processing) that enables simultaneous processing of all input and output signals.
- Built-in Power Amplifier - 2x60W @ 8Ω and 1x120W @ 70V / 100V power amplifier.
- Maximum Flexibility - Customize the analog port configuration: use the default 12 x 8 I/O matrix configuration or select from one of the many other preset I/O configurations. Route any input to any output, even between different formats (for example, route an analog input to an S/PDIF output). Control volume and DSP per port. Route any of the ports to the power amplifier.
- Simple and Powerful Maestro Room Automation - Intuitive user interface enables you to fully automate your meeting room elements. Configure lights, shades, devices and more to be activated by an extensive range of triggers, including input/output connectivity, routing, and button pressing. By minimizing user intervention, Maestro room automation saves meeting prep time and minimizes human error before presentations.
- Intuitive and Comprehensive Configuration and Control - Via a powerful, user-friendly graphic interface, set volume (gain and attenuation) and DSP per input; execute routing and select line in, mic in, phantom power or line out on each port; configure master level and more. Control signal routing, volume and other basic settings using API commands via RS-232 communication transmitted by a PC, touch screen system or other serial controller.
- Audio De-embedding - De-embeds the audio signal from the HDMI input for routing to any of the outputs or for routing to the loop output.
- Programmable - Supports up to 10 global presets per I/O configuration plus 10 mixer snapshot presets.
- Easy, Cost-Effective Maintenance - LED indicators for main power, line in/out, mic in, clipping, power amp, Dante sync, and HDMI, enable easy local maintenance and troubleshooting. Local firmware upgrade via the USB type-A port ensures lasting, field-proven deployment.
- Easy Installation - 19" enclosure for rack mounting a unit in a 1U rack space with included rack ears and universal 100-240V AC power connection.

**AFM-20DSP-AEC** 20-Port Audio Matrix with DSP, AEC and Interchangeable Inputs & Outputs

**FLEX I/O**  
**XSPerience**

COMING SOON



**AFM-20DSP-AEC** is a member of the Kramer XSPerience family of DSP products. **AFM-20DSP-AEC** is an advanced, professional audio matrix switcher with 20 analog ports that can be configured as inputs or outputs according to preset I/O configurations. **AFM-20DSP-AEC** includes multi-channel DSP, AEC (Acoustic Echo Cancellation), built-in 2x60W @ 8- and 1x120W @ 70V / 100V power amplifier, 4x4 Dante interface, HDMI embedding and de-embedding, USB, and S/PDIF. The comprehensive and user-friendly graphic interface makes configuring every detail of your audio system intuitive and easy.

**FEATURES**

- Advanced Audio Matrix Switcher - Professional, studio grade signal conversion technology, Including the latest generation 32-bit advanced Digital Analog Converter architecture to achieve excellent dynamic performance and improved tolerance to clock jitter. Maintains the quality of the original audio signal with selectable sampling rates up to 96 kHz. Flat frequency response, unmatched sonic performance, excellent signal to noise ratio, and extraordinarily low distortion levels.
- Wide Range of I/O Formats - Includes 20 analog ports, 4x4 Dante interface, HDMI input and output, USB plug & play audio port, and S/PDIF input and output.
- Multi-Channel Processing - Provides DSP (Digital Sound Processing) that enables simultaneous processing of all input and output signals.
- Built-in Power Amplifier - 2x60W @ 8- and 1x120W @ 70V / 100V power amplifier.
- Maximum Flexibility - Customize the analog port configuration: use the default 12 x 8 I/O matrix configuration or select from one of the many other preset I/O configurations. Route any input to any output, even between different formats (for example, route an analog input to an S/PDIF output). Control volume and DSP per port. Route any of the ports to the power amplifier.
- Teleconference Optimized - Features AEC (Acoustic Echo Cancellation), that prevents the microphone from picking up the far-end echoed speech, so you only hear the audio spoken directly into the microphone.
- Simple and Powerful Maestro Room Automation - Intuitive user interface enables you to fully automate your meeting room elements. Configure lights, shades, devices and more to be activated by an extensive range of triggers, including input/output connectivity, routing, and button pressing. By minimizing user intervention, Maestro room automation saves meeting prep time and minimizes human error before presentations.
- Intuitive and Comprehensive Configuration and Control - Via a powerful, user-friendly graphic interface, set volume (gain and attenuation) and DSP per input; execute routing and select line in, mic in, phantom power or line out on each port; configure master level and more. Control signal routing, volume and other basic settings using API commands via RS-232 communication transmitted by a PC, touch screen system or other serial controller.
- Audio De-embedding - De-embeds the audio signal from the HDMI input for routing to any of the outputs or for routing to the loop output.
- Programmable - Supports up to 10 global presets per I/O configuration plus 10 mixer snapshot presets.
- Easy, Cost-Effective Maintenance - LED indicators for main power, line in/out, mic in, clipping, power amp, Dante sync, and HDMI, enable easy local maintenance and troubleshooting. Local firmware upgrade via the USB type-A port ensures lasting, field-proven deployment.
- Easy Installation - 19" enclosure for rack mounting a unit in a 1U rack space with included rack ears and universal 100-240V AC power connection.



## I Audio (continued)

**AFM-20DSP-LE** 20-Port Audio Matrix with DSP and Interchangeable Inputs & Outputs - Lite Edition

**FLEX I/O**  
**XSPerience**



**AFM-20DSP-LE** is a member of the Kramer XSPerience family of DSP products. **AFM-20DSP-LE** is an advanced, professional audio matrix switcher with 20 analog ports that can be configured as inputs or outputs according to preset I/O configurations. **AFM-20DSP-LE** includes multi-channel DSP and a comprehensive and user-friendly graphic interface that makes configuring every detail of your audio system intuitive and easy.

### FEATURES

- Advanced Audio Matrix Switcher - Professional, studio grade signal conversion technology, including the latest generation 32-bit advanced Digital Analog Converter architecture to achieve excellent dynamic performance and improved tolerance to clock jitter. Maintains the quality of the original audio signal with selectable sampling rates up to 96 kHz. Flat frequency response, unmatched sonic performance, excellent signal to noise ratio, and extraordinarily low distortion levels.
- Multi-Channel Processing - Provides DSP (Digital Sound Processing) that enables simultaneous processing of all input and output signals.
- Maximum Flexibility - Customize the analog port configuration: use the default 12 x 8 I/O matrix configuration or select from one of the many other preset I/O configurations. Route any input to any output.
- Simple and Powerful Maestro Room Automation - Intuitive user interface enables you to fully automate your meeting room elements. Configure lights, shades, devices and more to be activated by an extensive range of triggers, including input/output connectivity, routing, and button pressing. By minimizing user intervention, Maestro room automation saves meeting prep time and minimizes human error before presentations.
- Intuitive and Comprehensive Configuration and Control - Via a powerful, user-friendly graphic interface, set volume (gain and attenuation) and DSP per input; execute routing and select line in, mic in, phantom power or line out on each port; configure master level and more. Control signal routing, volume and other basic settings using API commands via RS-232 communication transmitted by a PC, touch screen system or other serial controller.
- Programmable - Supports up to 10 global presets per I/O configuration plus 10 mixer snapshot presets.
- Easy, Cost-Effective Maintenance - LED indicators for main power, line in/out, mic in, and clipping enable easy local maintenance and troubleshooting. Local firmware upgrade via the USB port ensures lasting, field-proven deployment.
- Easy Installation - 19" enclosure for rack mounting a unit in a 1U rack space with included rack ears and universal 100-240V AC power connection.

## DSP-62-AEC 6x2 Audio Matrix with DSP and AEC

XSPerience

COMING  
SOON



DSP-62-AEC is a member of the Kramer XSPerience family of DSP products. DSP-62-AEC is an advanced, professional 6 x 2 audio matrix switcher that includes multi-channel DSP, AEC (Acoustic Echo Cancellation), HDMI embedding and de-embedding, USB audio, and S/PDIF. The comprehensive and user-friendly graphic interface makes configuring every detail of your audio system intuitive and easy.

### FEATURES

- Advanced Audio Matrix Switcher - Professional, studio grade signal conversion technology, including the latest generation 32-bit advanced Digital Analog Converter architecture to achieve excellent dynamic performance and improved tolerance to clock jitter. Maintains the quality of the original audio signal with selectable sampling rates up to 96 kHz. Flat frequency response, unmatched sonic performance, excellent signal to noise ratio, and extraordinarily low distortion levels.
- Wide Range of I/O Formats - Includes 6 input and 2 output analog ports, HDMI input and output, USB plug & play audio port, and S/PDIF input and output.
- Multi-Channel Processing - Provides DSP (Digital Sound Processing) that enables simultaneous processing of all input and output signals.
- Teleconference Optimized - Features AEC (Acoustic Echo Cancellation), that prevents the microphone from picking up the far-end echoed speech, so you only hear the audio spoken directly into the microphone.
- Simple and Powerful Maestro Room Automation - Intuitive user interface enables you to fully automate your meeting room elements. Configure lights, shades, devices and more to be activated by an extensive range of triggers, including input/output connectivity, routing, and button pressing. By minimizing user intervention, Maestro room automation saves meeting prep time and minimizes human error before presentations.
- Video Switching - Manual switching or automatic input selection based on priority selection or last connected input.
- Max. Video Resolution - 4K@60Hz (4:4:4).
- Intuitive and Comprehensive Configuration and Control - Via a powerful, user-friendly graphic interface, set volume (gain and attenuation) and DSP per input; execute routing and select line in, mic in, phantom power or line out on each port; configure master level and more. Control signal routing, volume and other basic settings using API commands via RS-232 communication transmitted by a PC, touch screen system or other serial controller.
- Audio De-embedding - De-embeds the audio signal from the HDMI input for routing to any of the outputs or for routing to the loop output.
- Programmable - Supports up to 10 global presets per I/O configuration plus 10 mixer snapshot presets.
- Easy, Cost-Effective Maintenance - LED indicators for main power, line in/out, mic in, clipping, and HDMI, enable easy local maintenance and troubleshooting. Local firmware upgrade via the USB type-A port ensures lasting, field-proven deployment.
- Easy Installation - 19" enclosure for rack mounting a unit in a 1U rack space with included rack ears and universal 100-240V AC power connection.

## I Audio (continued)

### FC-404NetXL 4x4 Dante Decoder & PoE Acceptor

COMING SOON



FC-404NetXL is a plug and play 4x4 Dante interface, that enables a full 4x4 matrix with individual volume control per input and output, mute per input and output, presets and AES67/DDM support.

#### FEATURES

- Kramer Sound Module - Features fully flexible and preset signal management. Mix, route and distribute any to any via simple click and connect. 10 presets that can be selected and toggled via embedded web pages or API for simple change of setup with Kramer recommended room controller.
- Mic and Line Level Inputs - With 48V for mic inputs on rear panel.
- Versatile Powering Options - Powered by PoE through the Dante port (when using a Network switch that supports PoE) or by external 5V power adapter.
- Flexible Control Options - LED indicators for IN and OUT signal detection, Dante sys and sync and RS-232 Rx/Tx. Configuration with embedded web pages via Ethernet and Protocol 3000 API commands via RS-232 serial commands transmitted by a PC, touch screen system or other serial controller.
- Easy Installation - Compact DemiTOOLS® fan-less enclosure for surface mounting or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter.

### Omnivore KM-2B Omnidirectional Dual-Condenser Boundary Microphone

COMING SOON



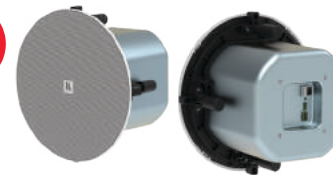
Omnivore KM-2B is a high-performance, omnidirectional, dual-condenser, boundary microphone designed specially for corporate use in small to medium size meeting spaces.

#### FEATURES

- Smooth Sound Pickup - Condenser, boundary microphone prevents comb filtering and maximizes acoustic energy. Selectable high-pass filter (HPF) at 120Hz prevents boominess and table noise.
- Multi-Purpose - Unique dual-condenser design enables changing the shape and function of the microphone to achieve the following polar patterns: Omnidirectional, for use as the only microphone in a small to medium size meeting space; Sub Cardioid, for placing under the display in a huddle space; or Cardioid for positioning on a lecturer's podium.
- Simple Operation - PTT, PTM, ON/OFF button.
- Power by 48V Phantom Power.
- Easy and Flexible Installation - After mounting on a table, wall, or ceiling, Omnivore KM-2B requires only a few simple adjustments and it is ready to capture high-quality audio in a variety of settings.

### Tavor 6-CNet In-Ceiling, Speaker with Dante Inputs and PoE

COMING SOON



Tavor 6-CNet is a high-performance, in-ceiling, PoE powered speaker with 2 channels of Dante input. This active speaker receives audio and powering via an Ethernet cable.

#### FEATURES

- Woofer - 6.5".
- Tweeter - 1".
- Sensitivity - 93dB.
- Dispersion Angel - 110°.
- Clean, Contemporary Look - Zero bezel frameless grille.
- Configuration - Using Protocol 3000 API via the Ethernet line.
- Easy Installation - Just push the speaker into the installation hole and the mounting clamps click into place. Single cable connectivity for both the audio signal and PoE power.

# AV over IP



## KDS-8 Zero Latency 4K HDR SDVoE Video Streaming Transceiver over Copper



KDS-8 is a high-performance, zero latency, 4K@60Hz (4:4:4) video streaming transceiver for streaming via Ethernet over copper cable. KDS-8 can be set as either an encoder or decoder. As an encoder, it encodes and streams the HDMI input along with IR, RS-232, and analog audio, over an IP network. As a decoder, it receives the encoded signal and decodes it for output.



### FEATURES

- High-Performance Video Streaming Transceiver - Streams up to 4K@60Hz (4:4:4) resolution signals over a 10G network interface, providing lossless compression.
- Maximum Compatibility - Fully standard and compliant SDVoE™ codec, enables compatibility with other software and hardware streaming platforms.
- HDCP 2.2 Compliant, HDR Support, Genlock and Fastswitch Modes Support
- High-Speed 10G Network Switch - Managed switch provides: multicast, jumbo frames, IGMP snooping and fast leave.
- Analog Audio Embedding - Provides an unbalanced analog audio port for embedding audio into the streaming signal.
- Bi-directional IR over IP - Control an IR device located on the decoder side from the encoder and vice versa.
- Bi-directional RS-232 over IP - Control a serial device located on the decoder side from the encoder and vice versa.
- Video Wall Support.
- Multiview Support
- Easy, Cost-Effective Maintenance - LED indicators for main power, Tx/Rx mode setting, HDMI video source detection, and Tx and Rx transmission enable easy local maintenance and troubleshooting.
- Simple System Management - Remote system management support to enable quick and efficient remote system and device life-cycle management.

## KDS-8F Zero Latency 4K HDR SDVoE Video Streaming Transceiver over Fiber Optic



**KDS-8F** is a high-performance, zero latency, 4K@60Hz (4:4:4) video streaming transceiver for streaming via Ethernet over single-mode and multi-mode optical fiber. **KDS-8F** can be set as either an encoder or decoder. As an encoder, it encodes and streams the HDMI or DisplayPort input along with IR, RS-232, analog audio and USB, over an IP network. As a decoder, it receives the encoded signal and decodes it for output.

### FEATURES

- High-Performance Video Streaming Transceiver - Streams up to 4K@60Hz (4:4:4) resolution signals over a 10G network interface, providing lossless compression.
- Maximum Compatibility - Fully standard and compliant SDVoE™ codec, enables compatibility with other software and hardware streaming platforms.
- HDCP 2.2 Compliant, HDR Support, Genlock and Fastswitch Modes Support.
- High-Speed 10G Network Switch - Managed switch provides multicast, jumbo frames, IGMP snooping and fast leave.
- Analog Audio Embedding - Provides an unbalanced analog audio port for embedding audio into the streaming signal.
- Bi-directional USB over IP.
- Bi-directional IR and RS-232 over IP - Control an IR or serial device located on the decoder side from the encoder and vice versa.
- Video Wall Support.
- Multiview Support.
- Easy, Cost-Effective Maintenance - LED indicators for main power, Tx/Rx mode setting, HDMI/ DisplayPort video source detection, USB connection and Tx and Rx transmission enable easy local maintenance and troubleshooting.
- Simple System Management - Remote system management support to enable quick and efficient remote system and device life-cycle management.

## KDS-10 4K60 HDR HDCP 2.2 Multi-Standard Transceiver



**KDS-10** is a high-performance, multi-standard streaming transceiver for streaming 4K@60Hz (4:4:4), HDR, HDCP 2.2 video signals via Ethernet over copper cable. **KDS-10** can be set as either an encoder or decoder. As an encoder, it encodes and streams one or two HDMI inputs over an IP network. As a decoder, it receives the encoded signal, decodes it and outputs it to an HDMI output.

### FEATURES

- High-Performance Video Streaming Transceiver - Streams up to 4K@60Hz (4:4:4) resolution signals over a 1G network interface. Supports HDCP 2.2 and HDR10.
- Multi-Standard Video Coding - Configure the transceivers according to your needs to stream using either H.264 or H.265.
- Flexible Input and Output Options - Includes two HDMI inputs that can be streamed alternately or together as PIP (Picture in Picture) or PaP (Picture and Picture). Supports up to 256 screens of video wall, multi-view, and image cropping.
- Streaming Support - Unicast and multicast over RTP (Real-Time Protocol).
- Versatile Powering Options - Powered by PoE (when using a Network switch that supports PoE) or by external 24V power adapter.
- Convenient and Comprehensive Control - Control the unit using intuitive embedded web pages or Protocol 3000 API commands via Ethernet.
- Simple System Management - Remote system management support to enable quick and efficient remote system and device life-cycle management.





# Wireless Presentation & Collaboration



## I Presentation & Collaboration

**VIA Campus<sup>2</sup>** 4K60 Wireless Presentation & Collaboration for Education, Training or Any Meeting Environment



**VIA Campus<sup>2</sup>** is a wireless presentation and collaboration solution that makes it easier to get actual work done during meetings. With any laptop or mobile device, users can view, edit and comment on documents in real time and record sessions. Meeting participants can display or stream full uninterrupted HD video (up to 1080p60) from their device, and even play YouTube® videos in full frame rate.

**VIA Campus<sup>2</sup>** can show up to six user screens on a single main display and 12 on two displays. Users can also view the main display on their own device. VIA Campus<sup>2</sup> features iOS mirroring for MacBook, iPad, and iPhone, as well as mirroring for Chromebook and Android (Lollipop OS 5.0 or newer).

**VIA Campus<sup>2</sup>** supports 3rd party conferencing and office apps, such as Microsoft Office®, SkypeforBusiness®, GoToMeeting®, Team®, and WebEx®. The solution can handle any size collaboration or meeting space.

### FEATURES

- Easy and Effective Wireless Connectivity - Built-in Wi-Fi provides two setup options for enabling meeting participants to wirelessly join the meeting. You can wirelessly connect your VIA device to your Wi-Fi network and participants can connect to VIA through the same network. Or, alternatively, you can create a wired connection from your VIA device to your local corporate LAN and use the built-in VIA Wi-Fi as a guest network for participants to connect to.
- 60fps Streaming Multimedia - Share HD wireless video streaming (using the VIA app Multimedia feature).
- One 4K@30 (RGB) HDMI output and one 4K@60 DisplayPort output.
- Remote Power Control - via a relay port.
- iOS, Android, Chromebook® and Miracast® Mirroring.
- Room Calendar Integration - Shows the room occupancy schedule on the main display.
- Internal Web Browser - Open any browser to display content.
- DHCP Support.
- Streaming Input for the Internal Media Player.
- Cloud-Based File Sharing - Drag and drop files to the internal VIA cloud storage (128GB).
- Emergency Messages - Create instant alert messages for immediate push to the main display.
- Whiteboard Support.
- Control - Give a participant control over a presenter's PC for true collaboration.
- Chat - Send an instant message to another user.
- iCloud®, DropBox®, Google Drive®, OneDrive® Integration.
- View Main Display - View the main display on your own device.
- Third-Party App Support - Like Microsoft Office®, SkypeforBusiness®, GoToMeeting® and WebEx®.
- Icon Shortcuts - On the splash page for 3rd party applications.
- Integrated YouTube Player - Create playlists, share videos or drag and drop any YouTube clip to your VIA app for seamless video playback.
- Streaming Output - Stream all collaboration activity from the main display to any H.264 decoder.
- Recording - Record an entire VIA video and audio session to a local video file.
- Digital Signage - Display dynamic content on the main display during meeting downtime.
- Seamless VSM Integration - With VIA Site Management (VSM) software.
- Multilingual Support - Experience VIA in your language.
- Warranty - 3 years on hardware.

## VIA Campus<sup>2</sup> PLUS 4K60 Simultaneous Wired and Wireless Presentation & Collaboration Solution



VIA Campus<sup>2</sup> PLUS is a simultaneous wired and wireless presentation and collaboration solution that makes it easier to get actual work done during meetings. VIA Campus<sup>2</sup> PLUS delivers all the outstanding features found in the VIA Campus<sup>2</sup> with the addition of an HDMI™ input for simple and seamless wired connectivity. With any laptop or mobile device, users can view, edit and comment on documents in real time and record sessions. Meeting participants can display or stream full uninterrupted HD video (up to 1080p60) from their device, and even play YouTube® videos in full frame rate.

VIA Campus<sup>2</sup> PLUS can show up to six user screens on a single main display and 12 on two displays. Users can also view the main display on their own device. VIA Campus<sup>2</sup> PLUS features iOS mirroring for MacBook, iPad, and iPhone, as well as mirroring for Chromebook and Android (Lollipop OS 5.0 or newer).

VIA Campus<sup>2</sup> PLUS supports 3rd party conferencing and office apps, such as Microsoft Office®, SkypeforBusiness®, GoToMeeting®, Teams®, and WebEx®. The solution can handle any size collaboration or meeting space and is ideal for training venues and classrooms.

### FEATURES

- Easy and Effective Wireless Connectivity - Built-in Wi-Fi gives you two setup options for enabling meeting participants to wirelessly join the meeting. You can wirelessly connect your VIA device to your Wi-Fi network and participants can connect to VIA through the same network. Or, alternatively, you can create a wired connection from your VIA device to your local corporate LAN and use the built-in VIA Wi-Fi as a guest network for participants to connect to.
- 4K@60 HDMI Wired Input - Enables hard-wiring your computer or other HDMI compatible device such as a camera, multimedia player or computer. Note: Does not support HDCP signals.
- 60fps Streaming Multimedia - Share HD wireless video streaming (using the VIA app Multimedia feature).
- One 4K@30 (RGB) HDMI output and one 4K@60 DisplayPort output.
- Remote Power Control - via a relay port.
- iOS, Android, Chromebook® and Miracast® Mirroring.
- Room Calendar Integration - Shows the room occupancy schedule on the main display.
- Internal Web Browser - Open any browser to display content.
- DHCP Support.
- Streaming Input for the Internal Media Player.
- Cloud-Based File Sharing - Drag and drop files to the internal VIA cloud storage (128GB).
- Emergency Messages - Create instant alert messages for immediate push to the main display.
- Whiteboard Support.
- Control - Give a participant control over a presenter's PC for true collaboration.
- Chat - Send an instant message to another user.
- • iCloud®, OneDrive®, GoogleDrive®, Dropbox® Integration.
- View Main Display - View the main display on your own device.
- Third-Party App Support - Like Microsoft Office®, SkypeforBusiness®, GoToMeeting® and WebEx®.
- Icon Shortcuts - On the splash page for 3rd party applications.
- Integrated YouTube Player - Create playlists, share videos or drag and drop any YouTube clip to your VIA app for seamless video playback.
- Streaming Output - Stream all collaboration activity from the main display to any H.264 decoder.
- Recording - Record an entire VIA video and audio session to a local video file.
- Digital Signage - Display dynamic content on the main display during meeting downtime.
- Seamless VSM Integration - With VIA Site Management (VSM) software.
- Multilingual Support - Experience VIA in your language.
- Warranty - 3 years on hardware.

## I Presentation & Collaboration (continued)

VIA GO<sup>2</sup> Compact & Secure 4K Wireless Presentation Device



VIA GO<sup>2</sup> gives iOS, Android, Chromebook, PC, and Mac users instant wireless connectivity with 4K advanced presentation capabilities. The product features content streaming with crystal-clear mirrored images and stunning video playback and includes iOS, Windows and Android mirroring. VIA GO<sup>2</sup> is super-compact (7x7cm) and flexible to install with both built-in Wi-Fi and LAN connectivity and includes industry-leading 1024-bit encryption for secure use on the internal network.

### FEATURES

- Wireless Device Connectivity - No dongle needed.
- High-Quality Video Streaming - Supports full HD 1080p/60 (using the VIA app Multimedia feature).
- Easy to Use - Simple and intuitive user interface.
- Display Participants - Up to two participant screens can be displayed simultaneously on main screen.
- High Resolution Graphic Output Formats - 4K resolution.
- iOS, Windows 10 and Android Mirroring.
- Seamless Integration with VIA Site Management (VSM) Software & the VIA Pad.
- Wi-Fi Band Support - 2.4GHz/5GHz with MIMO antennas.
- CEC Power ON capability.
- Remote Collaboration - Using Chrome and FireFox web browsers.
- Warranty - 3-years on hardware.
- Easy and Flexible Installation - With a super-compact 7x7cm form factor, it can be discreetly installed almost anywhere.

# Control & Management

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## I Control & Management

### KT-103 3-Inch Wall Plate PoE Touch Panel



**KT-103** is a powerful, 3-inch, wall-plate touch panel. Elegantly designed for decorative room integration, this compact touch panel includes a Decora® design frame set and fits US standard 1-gang wall junction boxes. **KT-103** supports wired Power over Ethernet (PoE).

**KT-103** is an Android-based touch panel that features a user-friendly, fully customizable graphical user interface configured by Kramer Control software.

#### FEATURES

- Advanced Android 6.0 Operating System.
- Flexible Room Control - Control any room device via LAN connections, multiple RS-232 and RS-485 serial ports, and various IR, relay and general purpose I/O built-in device ports. Connect the touch panel to an IP network with additional control gateways interfacing with remote controlled devices, for extending control across large space facilities.
- Versatile Powering Options - PoE or power adapter.
- Auto Sensing - Optimized performance and operation according to automatically detected LAN speed.
- Secured Operation - Highly secured operation of applications using password protection, hidden control buttons and more.
- Easy and Cost-Effective Installation - Compactly fits into a standard US 1-gang in-wall box size with powering and connectivity via a single Ethernet cable. Decoratively integrates with other wall mounted user interfaces such as electrical switches.

### KT-1010 10-Inch Wall & Table Mount PoE Touch Panel



**KT-1010** is a powerful, 10-inch, IPS, multi-touch, touch panel with 1280x800 resolution. Elegantly designed for decorative room integration, this portable touch panel can be deployed either on a tabletop or wall. **KT-1010** supports wired PoE (Power over Ethernet) and advanced Wi-Fi connectivity options. The touch panel comes with table and wall mounts, a USB cable and a power supply unit that enable easy installation, elegant wiring, secured mounting, reliable operation and flexible deployment. **KT-1010** is an Android based touch panel that is ideal for any 24/7 Kramer-supported commercial AV or control application and features a user-friendly, fully customizable graphical user interface configured by Kramer software.

#### FEATURES

- Elegant Design - Smooth integration with room furniture design, either on table or wall, with flexible panel cabling and locking design options.
- Superior User Experience - IPS 1280x800 hi-resolution screen with  $\pm 80^\circ$  horizontal and vertical wide viewing angles, built-in lighting sensor for auto-adaptable brightness, and advanced 10 multi-touch points and 2-finger gesture capabilities.
- Powerful Processing - Quad-core CPU, GPU, 2GB RAM, 16GB ROM processing performance, smoothly running complicated media and graphics-rich applications, such as H.265 video, audio streams encoding and decoding, and seamless hi-resolution 2Mp HD front camera operation.
- Flexible Services - Advanced Android 6.0 operating system with diverse Kramer and market-available applications from cloud/store offerings.
- Easy Installation - Powering and connectivity via a single Ethernet cable.
- Flexible Mounting - Including table and wall mounts.
- Optional Connectivity - Simple wireless BTLE 4.0 Bluetooth as well as connection to USB peripheral devices for either table or wall-mount installations, using the included USB cable.
- Reliable Networking - Seamless switching between wired and wireless 802.11 ac connectivity.
- Versatile Powering Options - PoE and power adapter.
- Auto Sensing - Optimized performance and operation according to automatically detected LAN speed.
- Firmware Update - Via USB port.
- Secured Deployment - Flexible locking options to prevent unwanted panel mount removal, elegantly designed to remain out of site.
- Secured Operation - Highly secured operation of applications using password protection, hidden control buttons and more. Red LED alert when camera is active.



# Accessories & AV Tools



## I Accessories & AV Tools

**OSP-MM1S** Optical SFP+ Transceiver Pair over 10G 1270/1330nm Simplex MM Fiber



**OSP-MM1S** is a pair of fiber optic transceivers for 1270/1330nm multimode signals. These standard, pluggable SFP+ optical modules have one LC connector for reception and transmission of signals over one strand of multimode optical fiber.

### FEATURES

- Certified Transceiver - Kramer certified, hot-pluggable, simplex SFP+ optical modules, for high-quality transmission of 10.2Gbps signals over multimode fiber cable, connecting 1 multimode fiber strand via LC PC/UPC connector.

**OSP-SM10S** Optical SFP+ Transceiver Pair over 10G 1270/1330nm Simplex SM Fiber

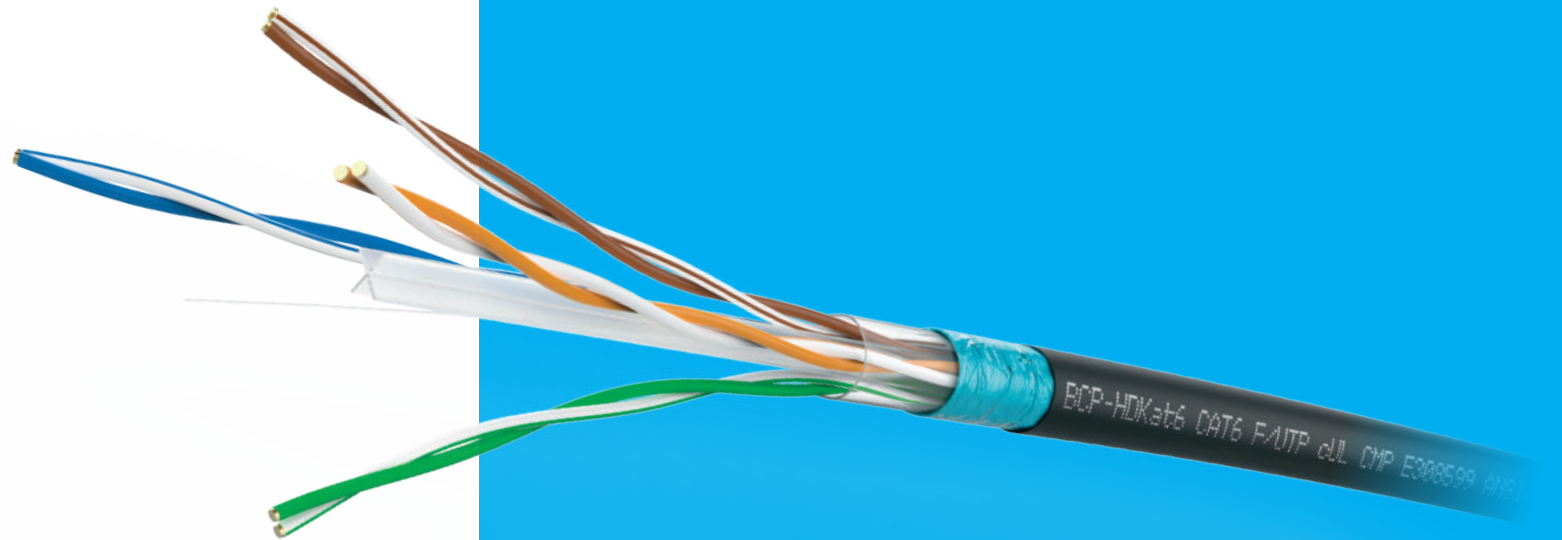


**OSP-SM10S** is a pair of fiber optic transceivers for 1270/1330nm single-mode signals. These standard pluggable SFP+ optical modules have one LC connector for reception and transmission of signals over one strand of single-mode optical fiber.

### FEATURES

- Certified Transceiver - Kramer certified, hot-pluggable, simplex SFP+ optical modules, for high-quality transmission of 10.2Gbps signal over single-mode fiber cable, connecting 1 single-mode fiber strand via LC PC/UPC connector.

# Cables & Connectors



## I Cables & Connectors

**CLS-ULTRAoc** Active Optical 8K HDMI Cable — Low Smoke & Halogen Free

8K

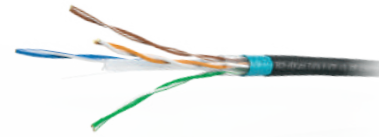


**CLS-ULTRAoc** is an innovative active optical HDMI cable for 8K signals (48Gbps) up to 100 meters (328 ft).

**CLS-ULTRAoc** is thinner, lighter and more flexible than copper or even standard optical cables. They offer transparent EDID and HDCP support with no signal attenuation and reduced risk of EMI and RFI interference. **CLS-ULTRAoc** is an ideal solution for maximizing signal integrity in critical AV installations.

**BCP-HDKat6** CAT6 F/UTP Cable for DGKat, HDBaseT and LAN Systems - Plenum Rated

4K60  
4:4:4  
HDCP 2.2



**BCP-HDKat6** is a high-performance unified CAT6 Plenum rated cable that handles all Pro AV and IT signals over four overall screened twisted pairs. This F/UTP CAT6 cable uses HDBaseT and Kramer's DGKat™ technology to pass video signals of up to 4K@60 (4:4:4) resolution. **BCP-HDKat6** is also ideal for LAN applications.

Note: For optimum performance use the recommended Kramer RJ-45 connector.

### FEATURES

- High-Performance Cable - Uses HDBaseT and Kramer's DGKat™ technology to pass video signals of up to 4K@60 (4:4:4) resolution with optimal signal performance.
- Quality Construction - 4 twisted pairs (F/UTP) of 23AWG solid copper conductors are cabled together, shielded and encased in a CMP-Plenum outer jacket.
- Optimized for Kramer Hardware - Use with any of Kramer's wide range of twisted pair digital transmitter-receiver sets.
- RJ-45 connector - BCP-HDKAT cable requires a special RJ-45 connector. Use the recommended Kramer HDKat connector - see the ACCESSORIES & RELATED PRODUCTS tab.
- Varied Lengths - Available in reel boxes of 76m (250ft), 152m (500ft), and 305m (1000ft).

HDR

4K60  
4:4:4  
HDCP 2.2

### C-HM/EEP High-Speed HDMI Cable with Ethernet



C-HM/EEP is a high-performance, high-speed HDMI™ cable with Ethernet and enhanced EMI protection. C-HM/EEP is specially designed to be used with Kramer products for critical installations. The unique combination of a one piece die-cast HDMI connector, internal metal shell, triple shielded construction and small, lightweight design provides unrivaled installation flexibility and robustness.

#### FEATURES

- High Performance Cable - Passes HDMI signal at up to 4K@60Hz (4:4:4) resolution and up to 18Gbps data rate.
- Embedded Audio - PCM 8-channel, Dolby Digital True HD and DTS-HD Master Audio.
- Supports HDCP 2.2, HDR10, HLG, EDID and CEC.
- RoHS 2011/65/EU Compliant.
- Varied Lengths - Available in versions of 0.9 to 3.0m (3 to 10ft).

HDR

4K60  
4:4:4  
HDCP 2.2

### C-HM/RA High-Speed HDMI Right Angle Cable with Ethernet



C-HM/RA is a high-speed, 4K@60Hz (4:4:4) HDMI, right angle cable that supports Ethernet over the HDMI line.

#### FEATURES

- Max. Resolution - 4K@60Hz (4:4:4).
- High-Quality Connectors - 24K gold-plated connectors resist corrosion, and offer the best possible connectivity.
- Minimizes Installation Depth - The right angle design makes it the perfect cable for connecting a flat panel display to a Kramer low profile wall-plate extender when the extender is installed behind the display.
- Supports HDCP 2.2, HDR, deep color, x.v.Color™, Lip Sync, 7.1 PCM, Dolby TrueHD, DTS-HD, and CEC.
- Available Lengths - 0.9m (3ft) and 1.8 (6ft).

## I Cables & Connectors (continued)

**CRS-FIBERH-S1** Secured Unidirectional HDMI over Pure Fiber Cable



**CRS-FIBERH-S1** is a pure fiber high-speed HDMI pluggable cable specially designed for security applications. **CRS-FIBERH-S1** contains pre-stored EDID values making a DDC channel unnecessary and audio select. It has a low risk of EMI and RFI (Electromagnetic and Radio Frequency Interference) and provides a very high level of signal security over copper and hybrid HDMI cables.

### FEATURES

- High-Speed Active Cable - Delivers up to 4K@60Hz (4:2:0) resolution and up to 10.2Gbps data rate.
- High-Level Signal Security - Cable limits signal to one-way transmission.
- Pre-defined EDID.
- HDMI Support - deep color and x.v.Color™, 5.1/7.1 lossless Dolby® TrueHD and DTS-HD Master Audio®. Note: HDCP, CEC, HEAC and ARC are not supported.
- High-quality construction - 24K gold-plated, corrosion-resistant connectors for best possible connectivity. Pull-resistant K-Lock™ with 15 lbs of restraining force. 4xMM fiber in a 3.4mm TPU jacket.
- Plug & Play operation.
- Control Over Audio on /Audio off operation.

**CRS-PlugNView-H** Active Optical Armored 4K HDMI Cable



**CRS-PLUGNVIEW-H** cable is a high-speed HDMI active optical cable (AOC) designed with heavy-duty durability perfectly suited for the harshest use and abuse expected from rental and road applications. **CRS-PlugNView-H** supports resolutions up to 4K@60 (4:4:4) 18 Gbps over long cable runs up to 100 meters without the need for an external power supply or additional extenders.

### FEATURES

- High Resolution over Long Range - Active cable supports resolutions up to 4K@60 (4:4:4) over long cable runs up to 100 meters.
- High Data Transfer Rate - Up to 18 Gbps.
- No External Power Needed - Powers the active units via the HDMI connector with a power consumption of only 0.25W:50mA @5V.
- Comprehensive HDMI Support - HDCP 2.2, HDR-10, HLG, Dolby Vision™, deep color, x.v.Color™, 5.1/7.1 lossless Dolby® TrueHDm DTS-HD Master Audio®, EDID and CEC.
- Extremely Durable - integrated. stainless steel, corrugated tube with Kevlar reinforcement protects the internal optical fibers. A TPU jacket, heavy duty connectors and robust waterproof & impact resistant connector covers ensure high pulling strength and compression load. Dispensed from a solid, mobile plastic spool.
- Varied Selection of Lengths - Available in versions from 10 to 100m (33 to 328ft).



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**K-SPIDER** Active Multi-Format Input (M) to HDMI Output (M) Adapter Cable



**K-SPIDER** is an active multi-format male input to HDMI male output adapter that enables you to connect one HDMI, DisplayPort, mini DisplayPort, or USB Type-C source to an HDMI acceptor.

#### FEATURES

- High-Performance Adapter Cable - Supports full 4K@60Hz digital video connectivity.
- Active Adapter - Retimes the signal to ensure full resolution signal quality.
- Simplifies Equipment Requirements - Replaces multiple separate cables, adapters, and dongles with a single multi-head cable.
- Plug and Play Installation - No software required.
- 3 Meter Input Cable.

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**ADC-GM/HF** 15-pin HD (M) to HDMI (F) with USB Audio/Power Adapter Cable



**ADC-GM/HF** is a VGA to HDMI™ adapter cable. This active cable converts an analog VGA signal to a digital HDMI signal. A USB-A connector enables inputting audio to the HDMI output and powering the cable.

**ADC-GM/HF** is perfect for connecting a VGA-equipped desktop PC or laptop to an HDMI display or projector with a resolution of up to 1080p.

#### FEATURES

- Max Resolution - 1080p.
- Plug and Play Installation - No software required.
- Powering Options - USB cable supplies power and audio.

## I Cables & Connectors (continued)

**ADC-HM/GF** HDMI (M) to 15-pin HD (F) Adapter Cable



**ADC-HM/GF** is an HDMI™(M) to VGA(F) adapter cable. Short and flexible in design, this active cable converts a digital HDMI signal to an analog video signal while outputting the HDMI audio to a separate stereo audio output.

**ADC-HM/GF** is perfect for connecting an HDMI-equipped desktop PC or laptop to a VGA display or projector with a resolution of up to 1920x1200@60Hz.

### FEATURES

- High-Speed Active Cable - Delivers up to 4K@60Hz (4:2:0) resolution and up to 10.2Gbps data rate.
- High-Level Signal Security - Cable limits signal to one-way transmission.
- Pre-defined EDID.
- HDMI Support - deep color and x.v.Color™, 5.1/7.1 lossless Dolby® TrueHD and DTS-HD Master Audio®. Note: HDCP, CEC, HEAC and ARC are not supported.
- High-quality construction - 24K gold-plated, corrosion-resistant connectors for best possible connectivity. Pull-resistant K-Lock™ with 15 lbs of restraining force. 4xMM fiber in a 3.4mm TPU jacket.
- Plug & Play operation.
- Control Over Audio on /Audio off operation.Max Resolution - 1080p.
- Analog Audio Output - 2-channels.
- Plug and Play Installation - No software required.
- Powering Options - Receives power from the HDMI port bus power, with optional micro-USB auxiliary power, as needed.

# Room Connectivity



## I Room Connectivity

### MegaEdge Portable Table Mount Power Station



**MegaEdge** is a portable power station that delivers all-day power for mobile devices. Easily attach the unit to a stationary desk, rolling work surface or podium, giving your students and staff the freedom and flexibility required in today's modern BYOD classroom.

Powered by high capacity 80000mAh lithium batteries and featuring AC, USB and USB-C outlets, **MegaEdge** expertly answers the power issue posed by the multitude of mobile devices in modern learning environments.

#### FEATURES

- Maximizes Learning Freedom & Flexibility - Provides power anywhere.
- Safe and Reliable - Features intelligent microprocessor control. Protection against over current, short circuit, and over-charging. Automatic shutdown for electronic overload and overheating.
- Power Management - Battery capacity percentage indicator and low battery voltage shutdown.
- Power Saving - Automatic idle shutdown.
- Theft Prevention - Special security screws provided.
- Power Any Mobile Device or Laptop - Approximate charging capacity: for smartphone 35 times, for tablet 10 times, for laptop 3-4 times.

### KRT-4 Cable Retractor



**KRT-4** is a cable retractor designed for installing in a meeting room, classroom or other AV site.

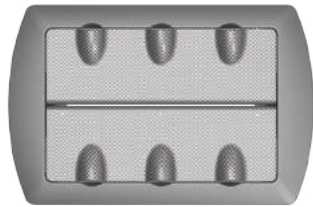
**KRT-4** extends a variety of common AV connector types and is easy to install and use.

#### FEATURES

- Provides Convenient and Easy-to-Use Connecting - Pull the cable to extend up to 1.8m (5.9ft) from the installation site; the cable automatically locks in position to the desired length. When finished, pull the cable again and it retracts into the housing.
- Improved Design - Gentle retraction feature extends the life of the cable and connector.
- Simple and Flexible Installation Options - Install in compatible Kramer TBUS models or attach directly to the underside of a table with a few screws.
- Available in Most Common AV Connector Types - HDMI, VGA, audio (3.5mm), LAN, USB, and DisplayPort.

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**TBUS-20 WAVES** Table Mount Modular Multi-Connection Solution - Unique Design



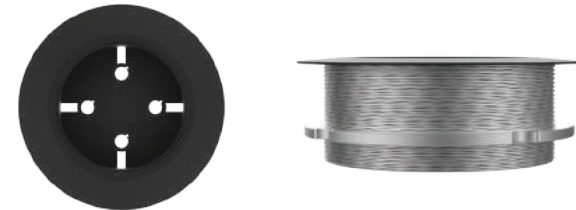
**TBUS-20 WAVES** is a uniquely designed enclosure for an in-table modular connectivity system. With a new look for the next generation of TBUSes, **TBUS-20 WAVES** is easy to install, easy to use and fully customizable with Kramer's line of power sockets, inserts, cables, and cable retractors. NOTE: Power sockets, inserts, cables, and cable retractors are purchased separately.

**FEATURES**

- Adjustable Lids - Both lids open manually and stay open at any angle. Even when fully closed, the two lids accommodate connected cords from multiple devices.
- Easy Installation - Fixed in place with just two screws from the top of the table.
- UL and CE Qualified.

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**RTBUS-4C** Round Table Mount 4 Cable Pass-Through



**RTBUS-4C** is an elegant, furniture-mounted, round cable pass-through that is easily installed into a table or podium top.

## I Room Connectivity (continued)

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**T-1GD** Mounting Bracket for Installing 1-Gang US-D Size Product Inside TBUS



**T-1GD** is a bracket for installing a Kramer 1-Gang US-D size wall plate in a TBUS. It fits into a dual power socket opening of the TBUS inner frame.

**WU-CA** USB-C Single Wall-Plate Insert



**WU-CA** Is a single wall plate insert with one USB type-C connector on the front and a 12cm cable with a USB type A female connector on the rear.



# Software



## I Software

**Kramer KronoMeet** Cloud-Based Room Scheduling and Meeting Management Application

# KRAMER KRONOMEET

**Kramer KronoMeet** is an enterprise class, user-friendly, cloud-based, room scheduling and management platform for use with video displays and touch screen devices. It streamlines and automates the management side of room bookings and provides live notifications to meeting participants. **Kramer KronoMeet** is designed to work seamlessly with other Kramer management software and Kramer AV products enabling you to sync your room management with your AV management and deployment.

### FEATURES

- Enterprise Class Comprehensive Room Scheduling, and Management - Empower your staff and guests with intuitive room scheduling, live on-site and remote notifications, and easy meeting search for employees and guests. Fully integrated with scheduling platforms like Office 365® and G Suite®.
- Fully Customizable and Scalable - Kramer KronoMeet is scalable to your needs, from a small business with a few meeting rooms to a large corporation.
- Convenient Scheduling Displays - Display meeting schedules on tablets at the entrance to each room.
- Enhanced Security - Network access control via 802.1x TLS layer encryption for all communication between the display tablet and Kramer KronoMeet.
- On-Screen Information Inside the Meeting Room - Integration with VIA collaboration devices enables automatic reminders on the main display when the meeting is nearly over and another meeting will be starting.
- User-Friendly and Easy to Install.
- Coming Soon: Meeting Space Activity Analytics - For asset managers to analyze meeting space availability, utilization figures, meeting attendance and equipment usage.

**KT-107SC** 7-Inch Wall Mount Dedicated Touch Panel for KronoMeet



**KT-107SC** is a 7-inch wall mount touch panel dedicated for use with Kramer KronoMeet cloud-based room scheduling and meeting management application. KronoMeet streamlines and automates the management side of room bookings and provides live notifications to meeting participants.

Elegantly designed for decorative room integration, this touch panel is on-wall, mounted inside standard in-wall junction boxes. **KT-107SC** supports wired Power over Ethernet (PoE) and advanced Wi-Fi connectivity options.

### FEATURES

- Enterprise Class Comprehensive Room Scheduling, and Management - Empower your staff and guests with intuitive room scheduling, live on-site and remote notifications, and easy meeting search for employees and guests. Fully integrated with scheduling platforms like Office 365® and G Suite®.
- Fully Customizable and Scalable - Kramer KronoMeet is scalable to your needs, from a small business with a few meeting rooms to a large corporation.
- Convenient Scheduling Displays - Display meeting schedules on tablets at the entrance to each room.
- Enhanced Security - Network access control via 802.1x TLS layer encryption for all communication between the display tablet and Kramer KronoMeet.
- Superior User Experience - IPS 1280x800 hi-resolution screen with  $\pm 80^\circ$  horizontal and vertical wide viewing angles, built-in lighting sensor for auto-adaptable brightness, with advanced 10 multi-touch points and 2-finger gesture capabilities.
- Secured Operation - Highly secured operation of applications such as password protected exit, hidden control buttons and so on. Red LED alert when camera is active.
- Secured Deployment - Flexible locking options to prevent unwanted panel-mount removal, elegantly designed to remain out of site.
- Easy Installation - Powering and connectivity via a single Ethernet cable.

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**KT-1010SC** 10-Inch Wall Mount Dedicated Touch Panel for KronoMeet



**KT-1010SC** is a 10-inch wall mount touch panel dedicated for use with Kramer KronoMeet cloud-based room scheduling and meeting management application. KronoMeet streamlines and automates the management side of room bookings and provides live notifications to meeting participants.

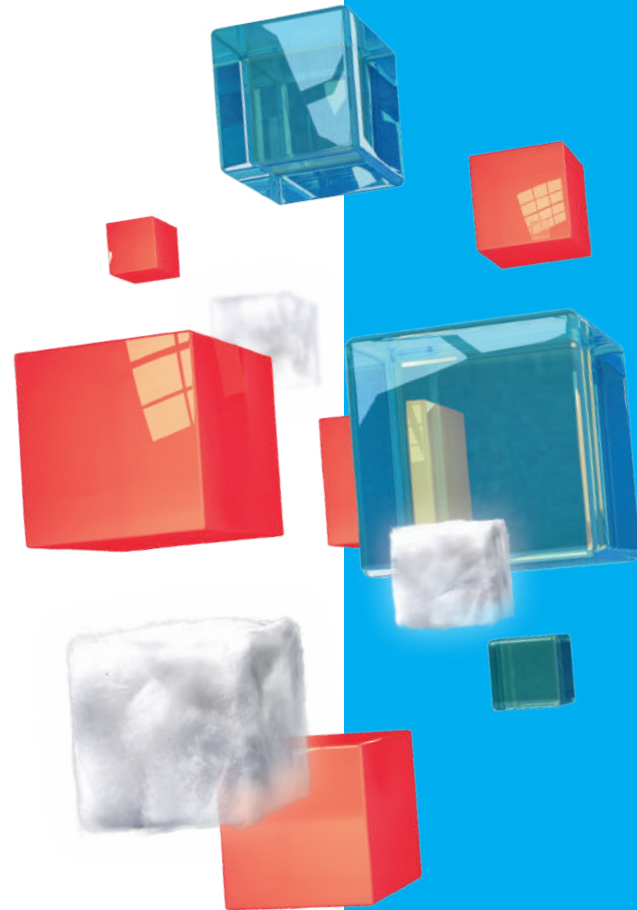
Elegantly designed for decorative room integration, this touch panel is on-wall, mounted inside standard in-wall junction boxes. **KT-1010SC** supports advanced Wi-Fi connectivity options.

#### **FEATURES**

- Enterprise Class Comprehensive Room Scheduling, and Management - Empower your staff and guests with intuitive room scheduling, live on-site and remote notifications, and easy meeting search for employees and guests. Fully integrated with scheduling platforms like Office 365® and G Suite®.
- Fully Customizable and Scalable - Kramer KronoMeet is scalable to your needs, from a small business with a few meeting rooms to a large corporation.
- Convenient Scheduling Displays - Display meeting schedules on tablets at the entrance to each room.
- Enhanced Security - Network access control via 802.1x TLS layer encryption for all communication between the display tablet and Kramer KronoMeet.
- Superior User Experience - IPS 1280x800 hi-resolution screen with  $\pm 80^\circ$  horizontal and vertical wide viewing angles, built-in lighting sensor for auto-adaptable brightness, with advanced 10 multi-touch points and 2-finger gesture capabilities.
- Room Notification Indicators - LEDs indicate the status of the room availability.
- Secured Operation - Highly secured operation of applications such as password protected exit, hidden control buttons and so on.
- Secured Deployment - Flexible locking options to prevent unwanted panel-mount removal, elegantly designed to remain out of site.



# Solutions



## I Solutions

### KR-1000 Wireless Meeting Space



KR-1000 is a Kramer@Work meeting space solution for wireless meeting spaces. It includes the AV products you need to set up your meeting space and turns any shared common area into a constructive huddle space.

Solution includes 1 x 3ft (0.9m) HDMI cable, and 2 x 10ft (3m) CAT5E cables.

#### INCLUDED PRODUCTS

- C-HM/HM - High -Speed HDMI Cable
- PC5E-1 - CAT5E UTP 100MHz CM 4x2x24AWG Patch Cord
- VIA GO<sup>2</sup> - Compact & Secure 4K Wireless Presentation Device

### KR-2000 4K Wired Meeting Space | 1-4 participants



KR-2000 is a Kramer@Work meeting space solution for 4K wired meeting spaces. It includes the AV products you need to set up your meeting space and features crystal clear 4K clarity for communicating the tiniest of details. Add to that the instantaneous ease of wired connections and awesome power of room automation for a winning presentation combination.

Solution includes 1 x black TBUS, 2 x universal power sockets, 1 x 3ft (0.9m) HDMI cable, 1 x 10ft (3m) HDMI cable, 1 x 10ft (3m) CAT5E cable, and 1 x 3ft (0.9m) USB cable.

#### INCLUDED PRODUCTS

- C-AC/POWERCORD - TBUS AC Power Cords
- C-HM/HM - High -Speed HDMI Cable
- C-MHM/MHM - Flexible High -Speed HDMI Cable with Ethernet
- C-USB/AA - USB 2.0 A (M) to A (M) Cable
- DIP-31 - 4K60 4:2:0 HDMI & VGA Auto Switcher with Maestro Room Automation
- PC5E-1 - CAT5E UTP 100MHz CM 4x2x24AWG Patch Cord
- T10F - TBUS -10xl Inner Frames
- TBUS-10xl - Table Mount Modular Multi -Connection Solution - Manually Retracting Lid
- TS-Power-Socket - TBUS Power Socket Modules
- WU-AA - Wall Plate Insert - USB (A/A)



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**KR-3000** Wired & Wireless Meeting Space I 1–4 participants



**KR-3000** is a Kramer@Work meeting space solution for wired & wireless meeting spaces. Unleash your meeting potential with this simultaneous wired and wireless presentation and collaboration environment. **KR-3000** equips your entire team with a suite of powerful time saving tools helping you get the most out of every minute of your meeting.

Solution includes 1 x 3ft (0.9m) HDMI cable, 1 x 10ft (3m) HDMI cable, and 2 x 10ft (3m) CAT5E cables.

**INCLUDED PRODUCTS**

- C-HM/HM - High -Speed HDMI Cable
- PC5E-1 - CAT5E UTP 100MHz CM 4x2x24AWG Patch Cord
- VIA Connect PLUS - Simultaneous Wired and Wireless Presentation and Collaboration Solution
- VIAcast - Miracast Enabled USB Dongle for VIA Devices

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**KR-4000** Wireless Meeting Space I 4–8 participants



**KR-4000** is a Kramer@Work meeting space solution for 4K small to medium meeting rooms. It includes the AV products you need to set up your meeting space and provides wired and wireless BYOD connectivity options along with time saving zero-touch room automation. Easy in-table cable connections keep your meetings clean and clutter free.

Solution includes 1 x black TBUS, 1 x 3ft (0.9m) HDMI cable, 1 x 10ft (3m) CAT6A cable, 1 x 10ft (3m) CAT5E cable, and 1 x 3ft (0.9m) USB cable.

**INCLUDED PRODUCTS**

- C-AC/POWERCORD - TBUS AC Power Cords
- C-HM/HM - High -Speed HDMI Cable
- C-UNIKAT - CAT6A U/FTP Video & LAN Cable Assembly
- C-USB/AA - USB 2.0 A (M) to A (M) Cable
- PC5E-1 - CAT5E UTP 100MHz CM 4x2x24AWG Patch Cord
- T10F - TBUS -10xl Inner Frames
- TBUS-10xl - Table Mount Modular Multi -Connection Solution - Manually Retracting Lid
- TS-Power-Socket - TBUS Power Socket Modules
- VIA GO<sup>2</sup> - Compact & Secure 4K Wireless Presentation Device
- WU-AA - Wall Plate Insert - USB (A/A)
- KIT-400 - 4K Auto-Switcher/Scaler Kit over Long-Reach HDBaseT

## I Solutions (continued)

### KR-5000 Medium to Large Meeting Room | 6–12 participants



KR-5000 is a Kramer@Work meeting space solution for medium to large meeting rooms. An elegant in-table auto switcher, intuitive touch panel and complete wired and wireless connectivity all come together culminating in endless presentation & collaboration possibilities with powerful control options.

Solution includes 1 x black TBUS, 1 x 3ft (0.9m) and 1 x 10ft (3m) HDMI cables, 1 x 15ft (4.6m) CAT5E cable.

#### INCLUDED PRODUCTS

C-AC/POWERCORD - TBUS AC Power Cords

- C-HM/HM - High -Speed HDMI Cable
- DIP-31 - 4K60 4:2:0 HDMI & VGA Auto Switcher with Maestro Room Automation
- Kramer BRAINware - Ethernet Master / Room Controller Software
- KT-107 - 7 -Inch Wall & Table Mount PoE Touch Panel
- PC5E-1 - CAT5E UTP 100MHz CM 4x2x24AWG Patch Cord
- T10F - TBUS -10xl Inner Frames
- TBUS-10xl - Table Mount Modular Multi -Connection Solution -- Manually Retracting Lid
- TS-Power-Socket - TBUS Power Socket Modules
- VIA Connect PLUS - Simultaneous Wired and Wireless Presentation and Collaboration Solution
- VIAcast - Miracast Enabled USB Dongle for VIA Devices

### KR-6000 4K Large Meeting Room | 12+ participants



KR-6000 is a Kramer@Work meeting space solution for 4K large meeting rooms. It includes the AV products you need to set up your meeting space, providing the right balance of easy instant connections and intuitive control to ensure all participants can get straight to the business at hand.

Solution includes 2 x black TBUSes, 4 x universal power sockets, 6 x 15ft (4.6m) CAT5E cables, 1 x 6ft (1.8m) USB cable, 1 x 25ft (7.6m) CAT6A cable, 3 x 3ft (0.9m) and 2 x 10ft (3m) HDMI cables, 1 x 10ft (3m) audio cable, 1 x pair of white speakers.

#### INCLUDED PRODUCTS

- C-A35M/A35M - 3.5mm Stereo Audio Cable
- C-AC/POWERCORD - TBUS AC Power Cords
- C-HM/HM - High -Speed HDMI Cable
- C-MHM/MHM - Flexible High -Speed HDMI Cable with Ethernet
- C-UNIKAT - CAT6A U/FTP Video & LAN Cable Assembly
- C-USB/AA - USB 2.0 A (M) to A (M) Cable
- DIP-20 - 4K60 4:2:0 HDMI & VGA Auto Switcher and PoE Provider over HDBaseT with Maestro Room Automation
- DIP-31 - 4K60 4:2:0 HDMI & VGA Auto Switcher with Maestro Room Automation
- Kramer BRAINware - Ethernet Master / Room Controller Software
- KT-107 - 7 -Inch Wall & Table Mount PoE Touch Panel
- PC5E-1 - CAT5E UTP 100MHz CM 4x2x24AWG Patch Cord
- T10F - TBUS -10xl Inner Frames
- Tavor 5-O - 5.25 -Inch, On -Wall 2 -Way Powered Speakers
- TBUS-10xl - Table Mount Modular Multi -Connection Solution -- Manually Retracting Lid
- TS-Power-Socket - TBUS Power Socket Modules
- VIA Connect PLUS - Simultaneous Wired and Wireless Presentation and Collaboration Solution
- VIAcast - Miracast Enabled USB Dongle for VIA Devices
- VP-440H2 - Compact 5 -Input 4K60 4:4:4 Presentation Switcher/Scaler with HDBaseT & HDMI Simultaneous Outputs
- WU-AA - Wall Plate Insert - USB (A/A)

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**KR-7000** 4K Presentation Conference Room | 16+ participants



**KR-7000** is a Kramer@Work meeting space solution for 4K presentation conference rooms. The ultimate conference room solution for those all-hands-on-deck meetings. When the room is full, the pressure is on and there's no room for error, **KR-7000** delivers top-tier wired and wireless presentation and collaboration features and unmatched audio experience.

Solution includes 4 x black TBUSes, 8 x universal power sockets, 9 x 15ft (4.6m) CAT5E cables, 4 x 33ft (10m) and 1 x 3.3ft (1m) CAT6A cables, 10 x 3ft (0.9m) and 1 x 10ft (3m) HDMI cables, 1 x 6ft (1.8m) USB cable, 1 x 49ft (15m) speaker cable, and 1 x 5.9ft (1.8m) audio & RS-232 cable.

**INCLUDED PRODUCTS**

- BC-2T - Stereo Audio/Control Bulk Cable
- C-AC/POWERCORD - TBUS AC Power Cords
- C-HM/HM - High -Speed HDMI Cable
- C-MHM/MHM - Flexible High -Speed HDMI Cable with Ethernet
- CP-UNIKAT - CAT6A U/FTP Video & LAN Cable Assemblies -- Plenum Rated
- C-USB/AA - USB 2.0 A (M) to A (M) Cable
- DIP-31 - 4K60 4:2:0 HDMI & VGA Auto Switcher with Maestro Room Automation
- FC-6 - 2 -Port Multi -Function Serial/IR Control Gateway
- KDS-DEC6 - 4K60 4:2:0 HDCP 2.2 Video Decoder
- KDS-EN6 - 4K60 4:2:0 HDCP 2.2 Video Encoder
- Kramer BRAINware - Ethernet Master / Room Controller Software
- KT-107 - 7 -Inch Wall & Table Mount PoE Touch Panel
- PA-120Z - 120W Power Amplifier
- PC5E-1 - CAT5E UTP 100MHz CM 4x2x24AWG Patch Cord
- PC6A-LS5 - CAT6A S/FTP 500MHz 4x2x26AWG Patch Cord -- Low Smoke & Halogen Free
- T10F - TBUS -10xl Inner Frames
- TBUS-10xl - Table Mount Modular Multi -Connection Solution -- Manually Retracting Lid
- TS-Power-Socket - TBUS Power Socket Modules
- VIA Connect PLUS - Simultaneous Wired and Wireless Presentation and Collaboration Solution
- VIAcast - Miracast Enabled USB Dongle for VIA Devices
- VS-211UHD - 2x1 4K60 4:2:0 HDMI Auto Switcher with Audio
- WU-AA - Wall Plate Insert -- USB (A/A)
- Yarden 8-T - 8 -Inch, High -Performance, Ceiling Tile Stereo Speaker



[www.KramerAV.com](http://www.KramerAV.com)

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