



WyreStorm®

Because the Technology Matters

AV Signal Distribution and Control
Product Guide **2018**

Contents

The WyreStorm Difference

Because the Technology Matters

AV Control

AV over IP

4K Matrix Switchers

2K Matrix Switchers

Presentation Solutions

Transmitters and Receivers

Extenders

Splitters

Cables and Converters

WyreStorm Express

1

2

4

6

16

24

28

34

36

40

42

44

The WyreStorm Difference



Your Multi-Technology, Cross-Market Specialists

We're a leading manufacturer of award-winning 4K and full HD AV signal distribution and control solutions for Pro AV/commercial, residential/custom install and retail markets. Specializing in providing innovative single-platform and hybrid solutions, WyreStorm products are developed to minimize system complexity and connectivity for increased ease of installation and reliability, while offering exceptional performance and functionality for the best value and end-user experience.



Modular Product Architecture for Ultimate Install Options

Out-of-box doesn't fit all applications - build to your specification. The modular architecture of our HDBaseT™ matrix switchers and NetworkHD™ AV over IP products enable solutions to be perfectly tailored and effortlessly expanded to applications, no matter the size, budget, function or complexity of the project.



Only Manufacturer Offering Clear, Unbiased Opinions and Advice

In an industry of bandwagon-jumping, self-promotion and exaggeration, we simply prefer to deal in fact so you'll never find us making a claim about our company or products that isn't technically accurate. We aim to demystify what can be at times be a confusing landscape with clear, impartial advice focused on dealer and end-user satisfaction to ensure the right technology is used and the right application achieved.



Five Technology Platforms and Counting

When it comes to AV distribution, we believe there's no such thing as one size fits all. Our multi-platform approach to product design spans HDMI, HDBaseT™, H.264, JPEG2000, and SDVoE. And with more technologies on the horizon, we're all about giving the integrator the options they need to provide the best possible solution for their AV project.



Global Network of Offices, Sales Advisors & Support

With offices in the US, UK, India and the Middle East, our own R&D and production facilities in Asia, and an ever-growing network of distribution partners throughout the world, WyreStorm is ideally placed as a total solutions provider serving customers wherever they may be.



All WyreStorm Pro AV and Installer Solution products include a 5 Year limited warranty for one of the highest levels of cover available and ultimate peace of mind.

Because the Technology Matters, Select the Right Product for the Right Application – a word from our CEO

It might seem obvious, but ensuring the correct technology is used for a particular application is essential to achieve true customer satisfaction. And it colors everything we do at WyreStorm.

With digital content distribution and AV applications now becoming such an essential part of so many industries, technology has evolved past HDMI and HDBaseT to offer more options than ever, with the arrival of AV over IP signifying the exciting convergence of the AV and IT worlds.

This new technology opens up markets and applications that were previously out of bounds due to limitations of the existing technology. Embracing all platforms is an opportunity for everyone to grow their business.

One Size Doesn't Fit All

It should be no surprise that some technologies are good at some things but less so for others. A buying decision should depend on variables, such as price, video quality, scalability, latency, audio support, skill competency and what extra value-added features can be offered, including advanced video processing.

Recognizing the rapid evolution of the industry over the past 3 years, WyreStorm has focused product development in its Pro AV Solutions,

Installer Solutions and Express lines on a multiple technology approach to AV distribution to satisfy almost every application and buying criteria.

It's a fact the majority of install issues are due to products being used beyond their design scope or in scenarios they were not intended for. Competing manufacturers who focus narrowly on one or two platforms not only limit options available to the dealer, but also limit the applications they can support. Of course, they will not tell you this – their aim is to sell products regardless.

The truth is there is no single technology for all applications. There are many for any. Understanding each platform and correctly applying to your application is the key to total customer satisfaction.

Your AV Expert

An expert doesn't offer limited knowledge or experience in a narrow selection of technologies. At WyreStorm, we aim to be your AV expert on all technology platforms and applications with clear impartial advice, unbiased recommendations and clear system designs to enable you to provide the right technology for your application.

Derek Hulbert, CEO WyreStorm Technologies



- Still the best method of distributing and switching uncompressed HDMI 2.0 18Gb 4K/60 4:4:4, but limited to small footprint installations under 15m/50ft
- High quality uncompressed AV signal transmission
- Self-contained plug and play AV solution, but with limited ability to scale up inputs and outputs
- Uses pre-terminated, non upgradable cables but WyreStorm Active Optical Fiber HDMI cables can overcome distance limitations

SUITABLE APPLICATIONS



- Easiest way to distribute high bandwidth uncompressed 4K HDR content over distance within medium-to-large footprint installations
- Ideal for centralized distribution and basic switching/routing of up to 16 sources and 16 displays
- Supports 4K UHD transmissions up to 70m/230ft or 1080p to 100m/328ft
- Now capable of supporting 4K/60 4:4:4 and HDR content
- Support for video, multichannel audio, RS-232 and bidirectional IR control, remote powering of devices and Ethernet passthrough over a dedicated network
- Modular, multi-format transmission cards available for matrix switchers
- Easy to install but challenges exist when scaling up to systems over 16x16
- Huge variety of WyreStorm matrix switcher and extender solutions available

SUITABLE APPLICATIONS



H.264

- Lowest cost, lowest bandwidth delivery of full HD over a 1GbE Network – the compromise is slightly higher latency
- Ideal for decentralized system designs
- Plug-and-play modular PoE architecture easily scales up to the largest deployments
- Value-add features includes frameless switching, video wall processing up to 10x10, multi-screen monitoring or PiP video wall-like capabilities with 4K scaling
- CEC one-touch play/standby, full RS-232 control of displays with major third party integration, including WyreStorm Enado™
- Free iPad control app enables access to an entire system with live video previews of all sources and selections

All three NetworkHD™ platforms share the same unified setup and admin environment

JPEG2000

- Cost-effective, high quality delivery 4K HDR over a 1GbE Network with low latency of less than a single frame – the compromise is slightly higher bandwidth demands
- Ideal for decentralized system designs
- Plug-and-play modular PoE architecture easily scales up to the largest deployments
- Value-add features includes 4K/2K auto-scaling, multi-channel audio up to DTS:X and Dolby Atmos, audio routing separate from video, IR pass-through, video wall up to 16x16 with rotation for landscape and portrait processing
- CEC one-touch play/standby
- Bidirectional RS-232 with major third party integration, including WyreStorm Enado™
- Free iPad control app enables access to an entire system with live video previews of all sources and selections

SDVoE

- Pinnacle of AV distribution offering mathematically lossless 4K/60 4:4:4 and HDR over 10GbE Network with Genlock zero latency – the compromise is higher bandwidth requiring a 10GbE Network
- Decentralized system design architecture offers ultimate scalability
- Value-add features include discrete AV matrix switching, 4K/2K auto-scaling, multi-channel audio up to DTS:X and Dolby Atmos, PCM audio downmix, embedding/de-embedding with DAC/ADC
- Broadcast scaling, multi-view and video wall up to 5x5 with bezel correction
- Ultra-fast seamless source switching
- 1GbE passthrough, IR/RS-232 routing/generation and analog audio routing
- Bidirectional IR/RS-232 with major third party integration, including WyreStorm Enado™

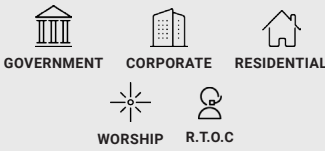
SUITABLE APPLICATIONS



SUITABLE APPLICATIONS



SUITABLE APPLICATIONS



- Scalable, server-based IP control solution with Ethernet and control connectivity
- Fast, reliable and affordable device control for all WyreStorm platform installations
- Revolutionary remote management and access for both installer and user
- No need to download/update individual apps and configuration files to each control device
- Programmed via simple yet advanced web browser application
- Multi-platform interface runs on any browser-enabled client device for the greatest installer and end-user experience
- BYOD end-user friendly connection of control devices via simple QR code scanning
- Customizable one-touch control of individual devices or grouped into zones, with support for third party integration with providers such as DTVGameControl™ and Global Cache™

SUITABLE APPLICATIONS



AV Control

ROBUST CONTROL

BYOD FRIENDLY

AUTOMATIC UPDATES

BROWSER BASED



Unrestricted Simplicity

The WyreStorm Enado™ control system works seamlessly with any operating system and Internet browser on any device. From Mac OS to Windows to Android to iOS, Enado™ just works. Period.

Like an app, but not an app. With no downloads or constant updates, Enado™ offers effortless system management for the client and instant access for an end-user with no site visit or license fee required to add control devices.

Enado™ enables the customer to connect their smartphone, tablet or laptop themselves. With simple in-room QR code scanning for one-touch activation of room lighting, blinds, projector and connected devices to get set-up in seconds.



Multi-Platform AV Control Solution

WyreStorm Enado™ redefines the integrators' ability to control AV distribution systems by combining powerful hardware and intuitive, cross-platform software to create an end-to-end AV distribution and control system that is always on, updated and accessible.



Enado™ Controller with 16x IR, 4x RS-232, 8x Ethernet, 4x Relay & 4x CC

ENA-001-010

- Server-based IP control solution with template based programming via a web browser
- No apps, licenses, software or drivers needed
- Highly scalable - use an almost unlimited number of control devices
- Instant update technology makes rolling out software updates and configuration changes instantaneous

Expand I/O with Global Cache

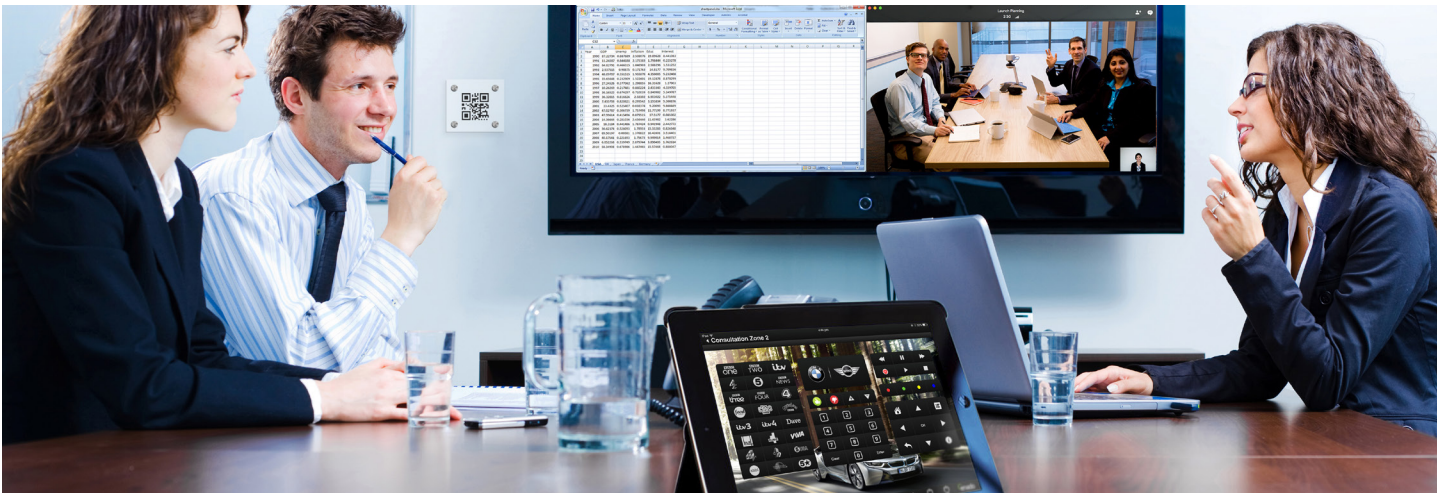


Enado Mini™ Web Server AV Control System

ENA-MINI-010

- All the features of its larger brother but without the legacy control outputs and a fraction of the price
- IR, RS-232 and Relay/CC outputs added using iTach and iTach Flex devices from Global Cache™
- Both Enado™ models support Enado™ v4 software and higher, featuring improved remote access and security, powerful IFTTT.com integration and much more

Expand I/O with Global Cache



AVoIP Control

A revolution in AV control, WyreStorm's award-winning NetworkHD Touch™ app for iPad puts entire NetworkHD™ 100, 200 and 400 Series AVoIP systems at your fingertips for both single screen and video wall applications.



NetworkHD Touch™ Control App for iPad

- Free with all NetworkHD™ 100, 200 and 400 Series systems
- Full system access, including individual sources, displays and video wall configurations
- Live video preview of connected sources and displayed selections
- Drag and drop source switching
- Group displays into rooms, areas or video walls
- Automatic configuration
- Integrates with Enado™ for source control, QR code scanning and BYOD connectivity

See AV over IP section for more information



AV Over IP

NetworkHD™ 100 Series

Low bandwidth HD over 1GbE using H.264 technology

Intended for commercial applications over 16x16, the NetworkHD™ 100 Series is an Ethernet-based HD over IP matrix solution using low bandwidth H.264 technology for distribution of HD video, audio and control signals over a 1GbE network using a standard PoE switch.

Featuring a simple, wizard-based set-up and auto-detection of components, the 100 Series offers easy configuration and almost unlimited scalability to suit commercial applications of virtually any size.

FEATURES

- Highly scalable, high quality low-bandwidth solution using the most efficient compression technologies to allow for very large commercial AV deployments
- Supports input signal resolution up to 1920x1200 60Hz
- Plug and Play setup with quick networking configuration and auto discovery of components
- QuickSync™ instant switching
- Provides streaming output via Ethernet port
- Full RS-232 control of connected displays and CEC One-Touch Play
- Free NetworkHD Touch™ iPad control app for live video previews and drag and drop source selection
- Major control systems drivers available including the WyreStorm Enado™ Control System

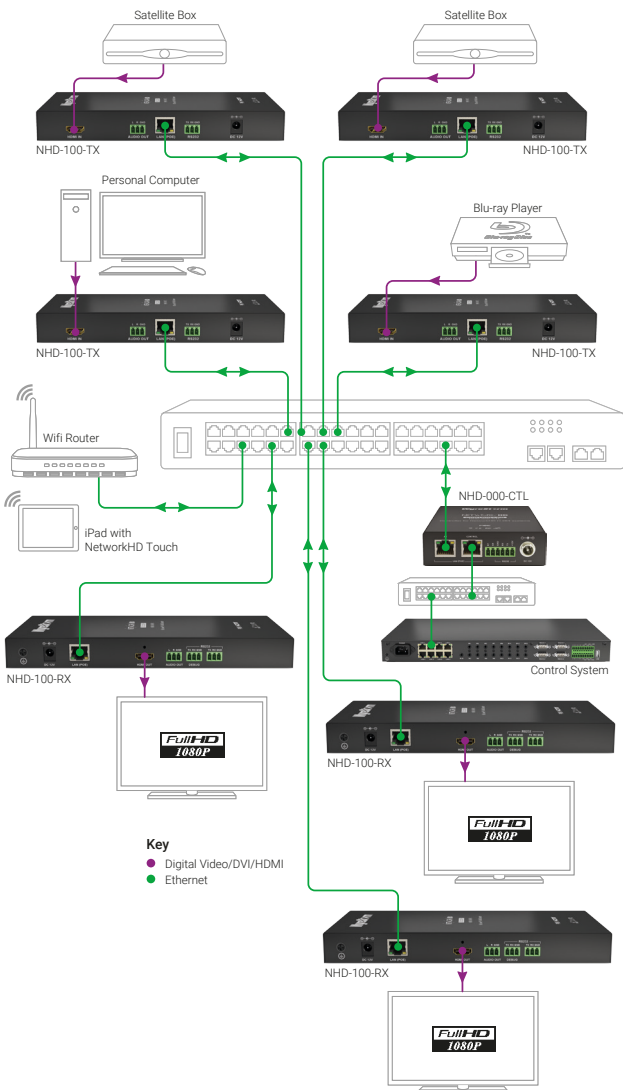
SUITABLE APPLICATIONS



WyreStorm written drivers available for major control systems:



NETWORK HD™



NHD-100-TX

NHD-100-RX



**Infinitely Scalable
& Flexible Configuration**

Please contact your authorized WyreStorm representative or marketing@wyrestorm.com for product comparison tables.



NetworkHD™ 100 Series AV Over IP H.264 Encoder

NHD-100-TX

- Highly scalable AV over IP solution using the most efficient H.264 compression technology to allow for very large commercial AV deployments
- Configurable H.264 decoding technologies supporting up to 1920x1200 60fps at 40Mb/s and below
- Plug-and-Play setup with auto discovery of components
- Supports NetworkHD Touch™ iPad control app, WyreStorm Enado™ and major control systems

POE HDMI™ H.264 HDCP



NetworkHD™ 100 Series AV Over IP H.264 Decoder

NHD-100-RX

- Compatible decoder for both 100 and 200 Series encoders supporting matrix-only functionality
- Industry-leading seamless source switching speeds of <500ms
- Full RS-232 control of connected displays and CEC One-Touch Play
- High or low latency modes (250ms - 60ms)
- Stereo audio breakout
- Supports NetworkHD Touch™ iPad control app, WyreStorm Enado™ and major control systems

POE HDMI™ H.264 HDCP CEC

INPUT	OUTPUT
5	1+1

SCREENLINK



NetworkHD™ 5x1 Compact Presentation Switcher/Scaler with CEC Control, Mic Input and IP Output (1080p: 100m/328ft)

NHD-SW-0501 (SW-0501-HDBT HDBASET MODEL ALSO AVAILABLE)

- 4x HDMI and 1x VGA + audio source inputs to mirrored NetworkHD™ (IP) and HDMI outputs
- WyreStorm ScreenLink™ allows screen mirroring from multiple network connected Windows or MacOS computers
- Mic input with phantom power, stereo audio inputs and auto-mix stereo audio output
- Auto-scaling up to 1920x1200 60Hz and auto CEC for display on/off
- NetworkHD Touch™, Enado™ and other major control system support

HDMI™ HDCP CEC

ONE PER SYSTEM



Controller for NetworkHD™ Systems

NHD-000-CTL

- Provides automatic discovery of network devices/H.264 encoders and decoders
- Simple, single screen browser configuration of encoder and decoder settings
- Integrates with major control systems, including WyreStorm Enado™ and the free NetworkHD Touch™ iPad control app
- Dual PoE Ethernet ports for complete isolation of control and AV network traffic

POE



NetworkHD™ 5U Rack Mount for 100/200 Series

NHD-000-RACK

- 5U rack mount for secure installation of up to 12x 100/200 Series encoders
- Includes mounting kits for ENA-MINI-010 & NHD-000-CTL
- Provides ideal heat dissipation - key factor in increasing reliability and product lifespan
- NetworkHD™ systems can be pre-built into the NHD-000-RACK before arriving on-site for improved installation process



NOTE: Please see full NetworkHD™ user guide for system design guidelines, including bandwidth, PoE and rack design.

NetworkHD™ 200 Series

Low bandwidth multi-format HD over 1GbE with video wall processing using H.264 technology

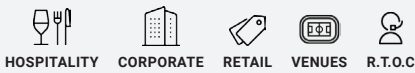
The NetworkHD™ 200 Series utilizes the same low bandwidth, infinitely scalable H.264 technology as the 100 Series, but adds powerful video wall support up to 16x16 and multi-format input connectivity of DVI, HDMI component and VGA for the best all-round solution for commercial AV installations.

A 200 Series encoder can either be paired with a 100 Series decoder for matrix switching to individual screens or NHD-210-RX decoder for video wall decoding, with both decoders including HDMI and analog audio breakout outputs, or an NHD-220-RX decoder for multiview monitoring.

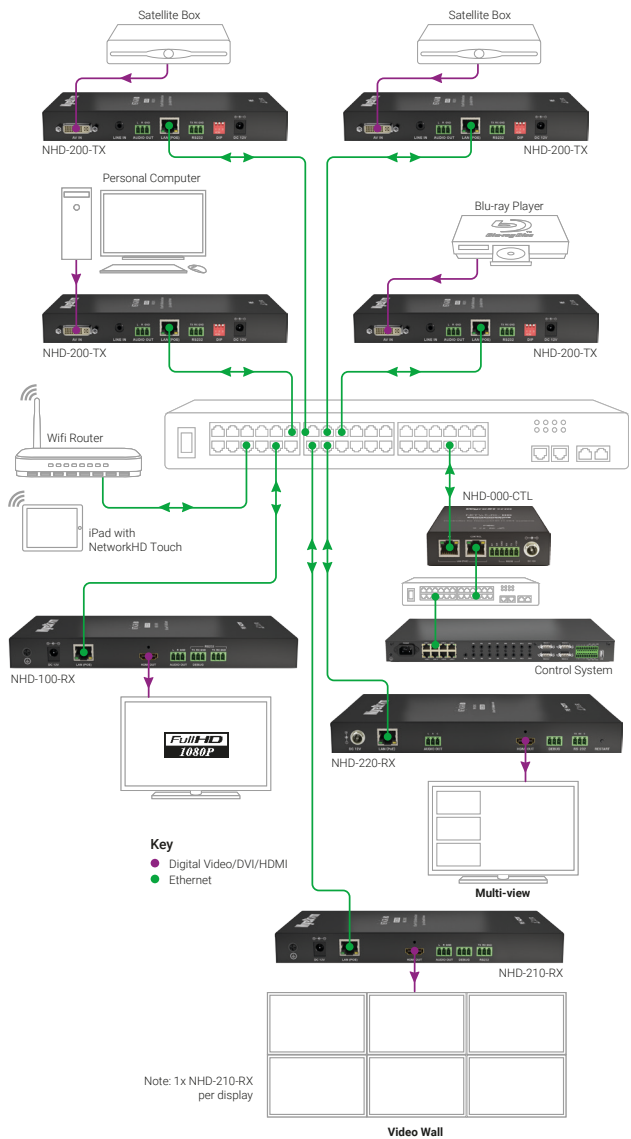
FEATURES

- Shared 100 Series H.264 platform offering highly scalable low-bandwidth HD over IP distribution
- Matrix switching functionality with NHD-100-RX decoder
- Video wall processing functionality up to 10x10 screens with NHD-210-RX decoder
- Multi-screen monitoring or PiP video wall-like capabilities with 4K scaling using the NHD-220-RX decoder
- Free NetworkHD Touch™ iPad control app for live video previews and drag and drop source selection
- Quick Sync™ instant source switching
- Full RS-232 control of connected displays and CEC One-Touch Play
- Supports video previewing on a PC or third party device
- Standards-based H.264/MPEG-4 AVC video compression

SUITABLE APPLICATIONS



WyreStorm written drivers available for major control systems:



Infinitely Scalable & Flexible Configuration

Please contact your authorized WyreStorm representative or marketing@wyrestorm.com for product comparison tables.



NetworkHD™ 200 Series AV Over IP H.264 Encoder with Video Wall Processing

NHD-200-TX

- Highly scalable full HD over IP solution using H.264 for very large commercial AV deployments requiring video wall functionality
- Multi-format DVI-I input supports DVI, HDMI, Component and VGA with stereo audio
- Plug and Play configuration with auto IP addressing and auto discovery of components
- Manual DIP setting



NetworkHD™ AV Over IP H.264 Multi-View Decoder

NHD-220-RX

- Multi-view capable of displaying 1 to 8 simultaneous NetworkHD™ Encoder streams on a single display
- Multiple layouts to choose from including grid view and special layouts
- 4K output for high quality scaling of single images or native display of multiple 1080p images
- Industry-leading switching speeds of <500ms for virtually instantaneous seamless source switching
- Integration with leading 3rd party control systems including WyreStorm Enado™ and the new NetworkHD Touch™ app



NOTE: Please see full NetworkHD™ user guide for system design guidelines, including bandwidth, PoE and rack design.



NetworkHD™ 200 Series AV Over IP H.264 Decoder with Video Wall Processing

NHD-210-RX

- Multi-format HD over IP AV distribution solution utilizing H.264 compression
- Offers video wall functionality up to 16x16 screens and matrix switching
- HDMI and analog audio breakout outputs
- Instant switching between video sources with high quality and low latency modes
- Plug and play configuration, auto IP addressing and auto-discovery
- Supports NetworkHD Touch™ iPad control app, WyreStorm Enado™ and major control systems



ONE PER SYSTEM



Controller for NetworkHD™ Systems

NHD-000-CTL



NetworkHD™ 5U Rack Mount for 100/200 Series

NHD-000-RACK



NetworkHD™ AV over IP H.264 Low Bandwidth Standard Encoder

NHD-230-TX

- Standard H.264 PoE encoder for streaming to PCs, IPTVs, set-top boxes, tablets and smartphones
- Supports all input video resolutions up to 1920x1200
- UDP, RTP, unicast and multicast streaming support
- Supports up to 10 simultaneous unicast RSTP sessions and very scalable multicast sessions (requires a managed network)
- Separate video and audio encoder bitrate control
- Simple web based configuration



NetworkHD™ 400 Series

Low latency 4K HDR over 1GbE with image scaling, multichannel audio and video wall processing using JPEG2000 technology

The NetworkHD™ 400 Series offers stunning 4K HDR video, multi-channel audio support and 4K/2K auto-scaling to seamlessly handle distribution of mixed resolution sources, content and display devices over a 1GbE network.

Featuring incredibly low latency matrix switching and video wall capabilities, the 400 Series is the ideal AV over IP solution for systems where high quality and low latency are key requirements; making it perfect for both residential and commercial applications.

FEATURES

- Stunning visually lossless 4K UHD video with HDR and multi-channel audio up to DTS:X and Dolby Atmos
- Ultra-low latency of less than a single frame
- 4K/1080p image scaling for mixed resolution installs
- NetworkHD Touch™ iPad control app for live video previews and drag and drop source selection
- Powerful audio matrix functionality routes audio separately from video to any decoder
- Up to 16x16 video wall with rotation for portrait walls
- CEC One-Touch play and standby, bidirectional IR or RS-232 control of connected devices

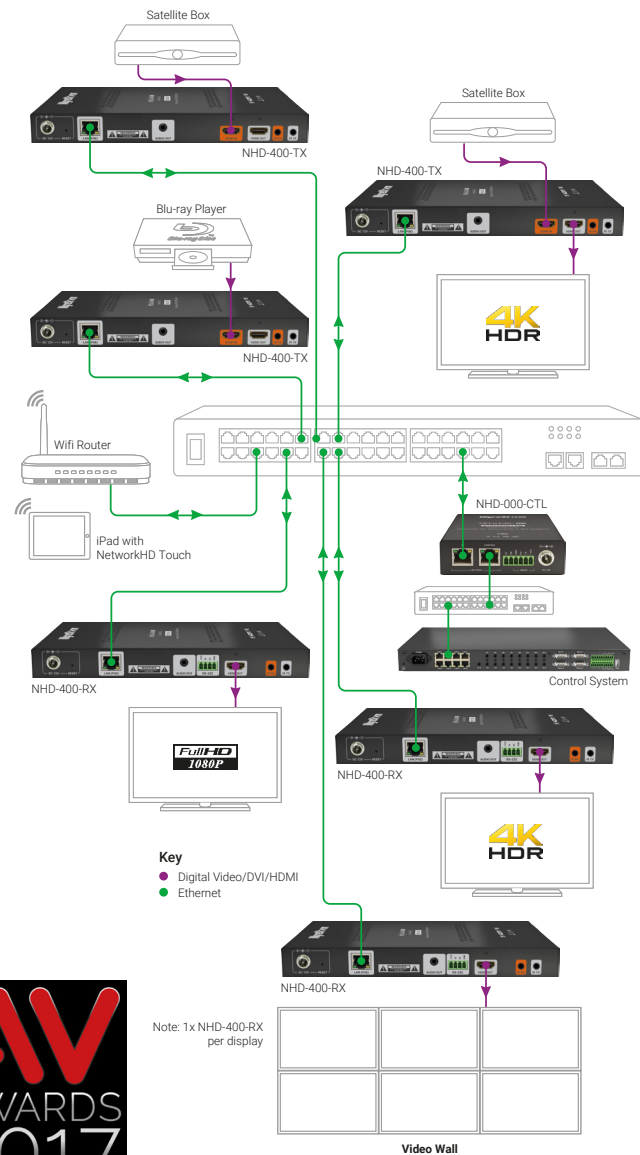
SUITABLE APPLICATIONS



WyreStorm written drivers available for major control systems:



NETWORK HD™



NHD-400-TX

NHD-400-RX

Infinitely Scalable & Flexible Configuration

Please contact your authorized WyreStorm representative or marketing@wyrestorm.com for product comparison tables.



NetworkHD™ 400 Series 4K AV over IP JPEG2000 Encoder NHD-400-TX

- Stunning visually lossless 4K UHD video with HDR and multi-channel audio up to DTS:X and Dolby Atmos
- Ultra-low latency of less than a single frame
- Image scaling enables a mix of 4K and 1080p screens to be used throughout an install
- Free NetworkHD Touch™ iPad control app with live video preview and major control system integration including WyreStorm Enado™
- Powerful audio matrix functionality routes audio separately from video to any decoder
- Bidirectional IR, HDMI In and Out and analog audio output



NetworkHD™ 400 Series 4K AV over IP JPEG2000 Decoder NHD-400-RX

- Stunning visually lossless 4K UHD video with HDR and multi-channel audio up to DTS:X and Dolby Atmos
- Ultra-low latency of less than a single frame
- Image scaling enables a mix of 4K and 1080p screens to be used throughout an install
- Free NetworkHD Touch™ iPad control app with live video preview and major control system integration including WyreStorm Enado™
- Powerful audio matrix functionality routes audio separately from video to any decoder
- Bidirectional IR and analog audio output

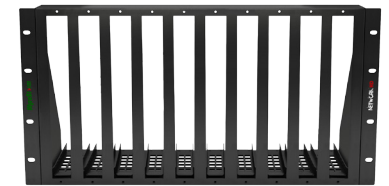


ONE PER SYSTEM



Controller for NetworkHD™ Systems NHD-000-CTL

- Provides automatic discovery of network devices/H.264 encoders and decoders
- Simple, single screen browser configuration of encoder and decoder settings
- Interface to major control systems, including the Enado™ AV Control System
- Dual PoE Ethernet Ports for complete isolation of control and AV network traffic



NetworkHD™ 6U Rack Mount for 100/200/400 Series NHD-000-RACK2

- Compact steel 6U 19" rack mount for up to 10x NetworkHD™ 100/200/400 Series devices
- Supports all NetworkHD™ encoders and 400 Series decoders plus NHD-000-CTL and Enado™ Mini controllers
- Provides ideal component heat dissipation and airflow, which is a key factor in increasing reliability and product lifespan
- Pre-build the system into the NHD-000-RACK2 prior to arriving on site to improve speed and efficiency of installations



NOTE: Please see full NetworkHD™ user guide for system design guidelines, including bandwidth, PoE and rack design.

Available Q2 2018

NetworkHD™ 600 Series

Lossless 4K/60 4:4:4 and HDR over 10GbE using SDVoE technology

The WyreStorm NetworkHD™ 600 Series offers the ultimate AV over IP platform for when only the absolute best image quality will do.

Supporting highly scalable, secure and mathematically lossless high-bandwidth video content alongside multi-channel audio and a variety of connectivity and control options. The 10GbE system is easily managed in a flexible, unified software environment for the ultimate AV over IP experience for commercial and high-end residential applications.

FEATURES

- Highly scalable modular 10GbE AV distribution system for IP Networks utilizing the SDVoE technology standard
- Mathematically lossless with zero latency supporting 4K/60 4:4:4 encoding up to a pixel clock of 595MHz
- Powerful, discrete AV matrix switching with video scaling
- PCM audio downmix, embedding and de-embedding with DAC/ADC functions
- Broadcast scaling, multi-view and video walls up to 5x5
- Genlock mode with zero latency between source and display, ultra-fast seamless video source switching
- Integrated 1GbE pass-through, IR/RS-232 routing/generation and additional analog audio routing
- Next generation, fan-less chassis design combines noiseless operation with optimal heat dissipation to maintain premium device performance, reliability and MTBF

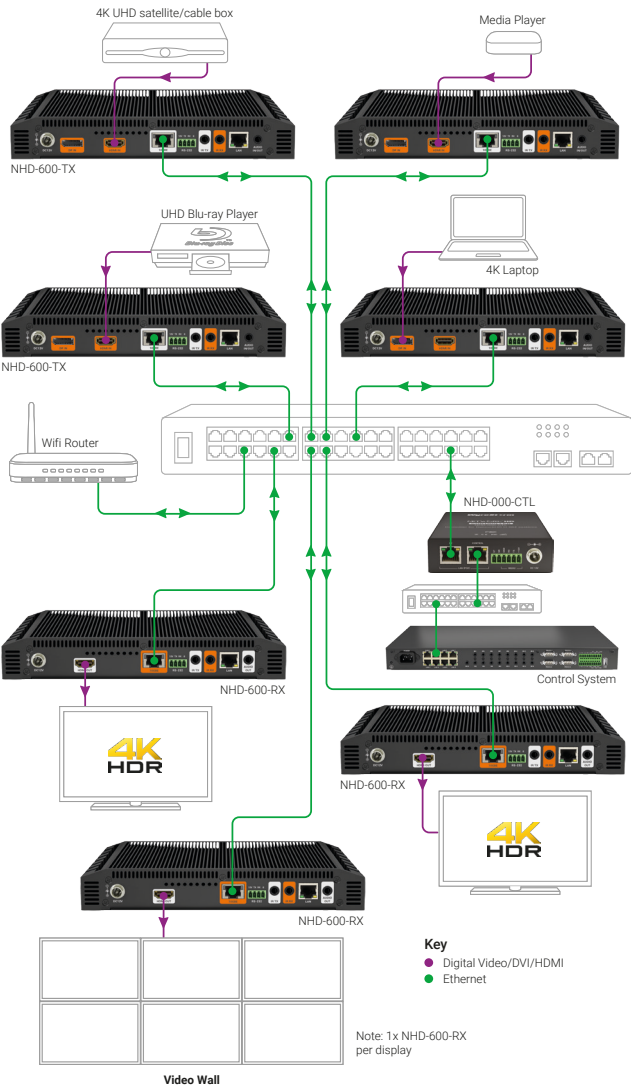
SUITABLE APPLICATIONS



WyreStorm written drivers available for major control systems:



NETWORK HD™



NHD-600-TX



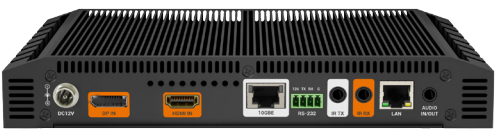
NHD-600-RX



Infinately Scalable & Flexible Configuration

Please contact your authorized WyreStorm representative or marketing@wyrestorm.com for product comparison tables.

Available Q2 2018



NetworkHD™ 600 Series 4K HDR AV over IP SDVoE Encoder NHD-600-TX

- Uncompromised mathematically lossless AV encoding over 10GbE SDVoE
- Powerful, discrete AV matrix switching with video scaling
- Supports 4K/60 4:4:4 encoding up to a pixel clock of 595MHz
- HDMI and DisplayPort Inputs, PCM audio downmixing, embedding and de-embedding with DAC/ADC functions
- Genlock mode with zero AV latency between source and display and support for ultra-fast, seamless video source switching
- Integrated 1GbE pass-through, IR/RS-232 routing/generation and additional analog audio routing
- Revolutionary fanless chassis design combines noiseless operation with optimal heat dissipation to maintain premium device performance, reliability and MTBF



One per system



Controller for NetworkHD™ Systems

NHD-000-CTL

- Provides automatic discovery of all NetworkHD™ encoders and decoders
- Simple, single screen browser configuration of encoder and decoder settings
- Interface to major control systems, including the Enado™ AV Control System
- Dual PoE Ethernet Ports for complete isolation of control and AV network traffic



Available Q2 2018



NetworkHD™ 600 Series 4K HDR AV over IP SDVoE Decoder NHD-600-RX

- Lossless AV decoding up to 4K/60 4:4:4 via 10GbE network using SDVoE
- Discrete AV matrix switching with video scaling
- HDMI output, PCM audio downmixing, embed/de-embed with DAC/ADC support
- Genlock mode with zero latency between source/display and seamless source switching
- Integrated 1GbE pass-through, bidirectional IR and RS-232 routing/generation and additional analog audio routing
- Unique fanless chassis design for optimal heat dissipation for premium device performance, reliability and MTBF



Available Q2 2018



NetworkHD™ 7U Rack Mount for 600 Series

NHD-000-RACK3

- Compact steel 7U 19" rack mount kit for up to 8x NetworkHD™ 600 Series components
- Supports NetworkHD™ 600 Series encoders and decoders, plus NHD-000-CTL controller with adaptor
- Provides optimal thermal dissipation in a passively or actively cooled rack design to maintain premium device performance and MTBF
- Slimline design less than 6" deep allows for back-to-back mounting in an AV rack for increased equipment density, with lacing points for enhanced cable management
- Enables systems to be pre-built into the rack kit prior to arriving on site to improve speed and efficiency of installation

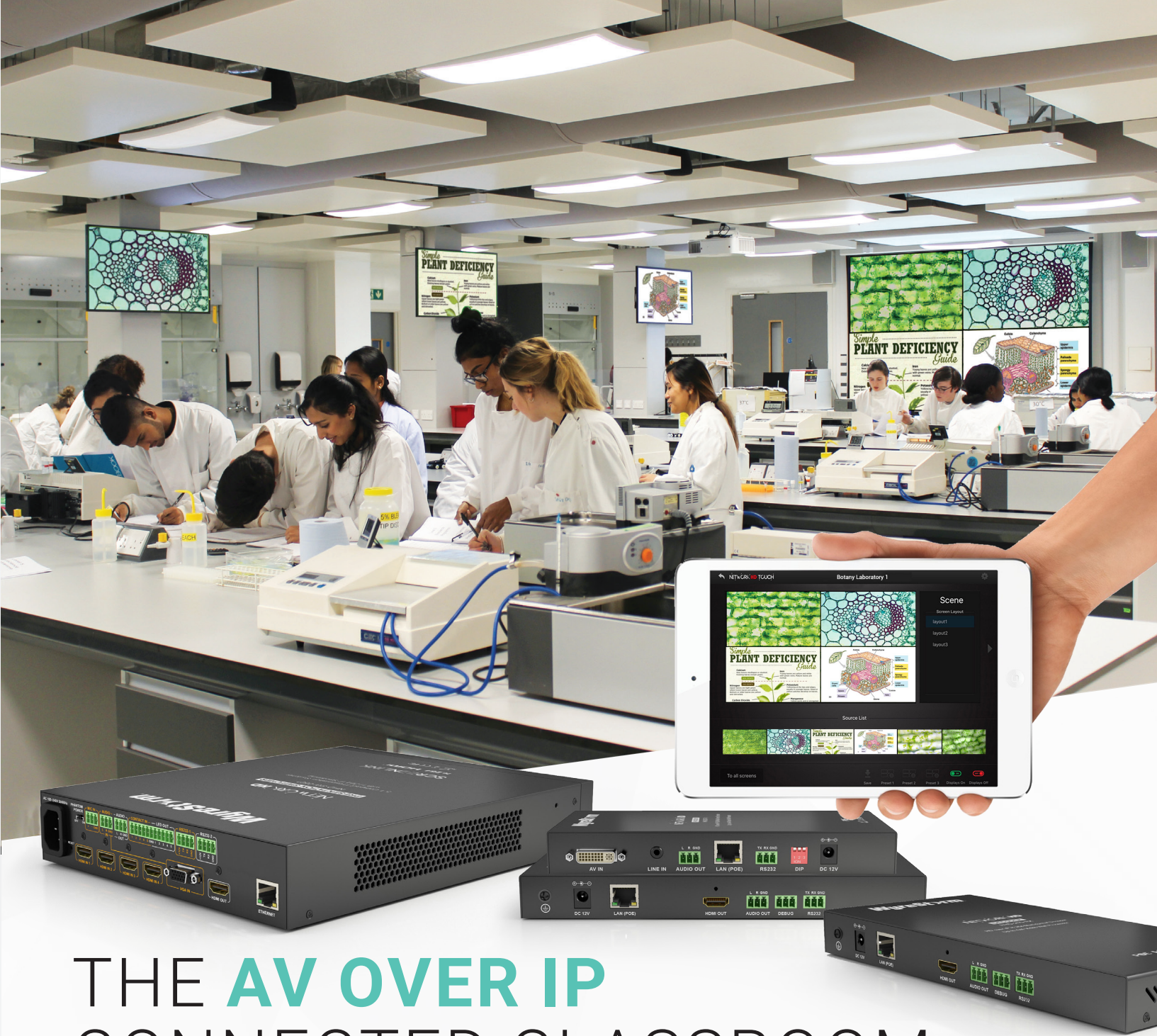


NOTE: Please see full NetworkHD™ user guide for system design guidelines, including bandwidth, PoE and rack design.



NetworkHD™ Comparison Chart

	100/200 Series	400 Series	600 Series
Features			
Maximum resolution	1920x1200 (1080p)	4K UHD	4K UHD/DCI
Video Compression Codec	H.264	JPEG-2000	SDVoE
Maximum 4K Timing	N/A	60fps 4:2:0	60fps 4:4:4
Multichannel Audio	✗	✓	✓
Latency	250ms / 60ms	16ms	0ms
PoE	✓	✓	✗
Analogue Audio Breakout	✓	✓	✓
Analogue Audio Input	✓ (200 Series)	✗	✓
Analogue Video Input	✓ (200 Series)	✗	✗
Audio Delay	✓	✗	✗
Auto-discovery	✓	✓	✓
Background/Failsafe Image or Video	✓	✓	✗
Balanced Audio	✗	✗	✗
Video Wall	✓ (210-RX only)	✓	✓
Bezel Gap Correction	✗	✓	✓
Image Rotation	✗	✓	✗
Bandwidth control	✓	✓	✓
CEC	✓	✓	✗
One-shot Firmware Upgrade	✓	✓	✓
HDCP 2.2	✗	✓	✓
HDMI Pass-through on Tx	✗	✓	✗
HDR	✗	✓	✓
NetworkHD Touch™ Control	✓	✓	✗
Instant Switching	✓	✗	✓
IR Out	✗	✓	✓
IR Passthrough	✗	✓	✓
KVM (Keyboard/Video/Mouse)	✗	✗	✗
Maximum video wall size	10x10	16x16	5x5
Multiview	✓ (220-RX only)	✗	✓
Open Control API	✓	✓	✓
Network Type	1Gb Multi-cast	1Gb Multi-cast	10Gb Multi-cast
PC Software Suite	✓	✓	✓
Peak Bandwidth per Tx	40 Mb/s	850 Mb/s	10 Gb/s
Rack Mountable	Yes - NHD-000-RACK	Yes - NHD-000-RACK2	Yes - NHD-000-RACK3
Preview Stream	✓	✓	✗
RS-232 Out	✓	✓	✓
Small Form Factor	✓	✓	✓
Warranty (years)	5	5	5
Drivers	Crestron, AMX, RTI, Control4, Enado™	Crestron, AMX, RTI, Control4, Enado™	Crestron, AMX, RTI, Control4, Enado™



THE AV OVER IP
CONNECTED CLASSROOM

Sharing screens and AV sources in the classroom creates the ideal learning environment

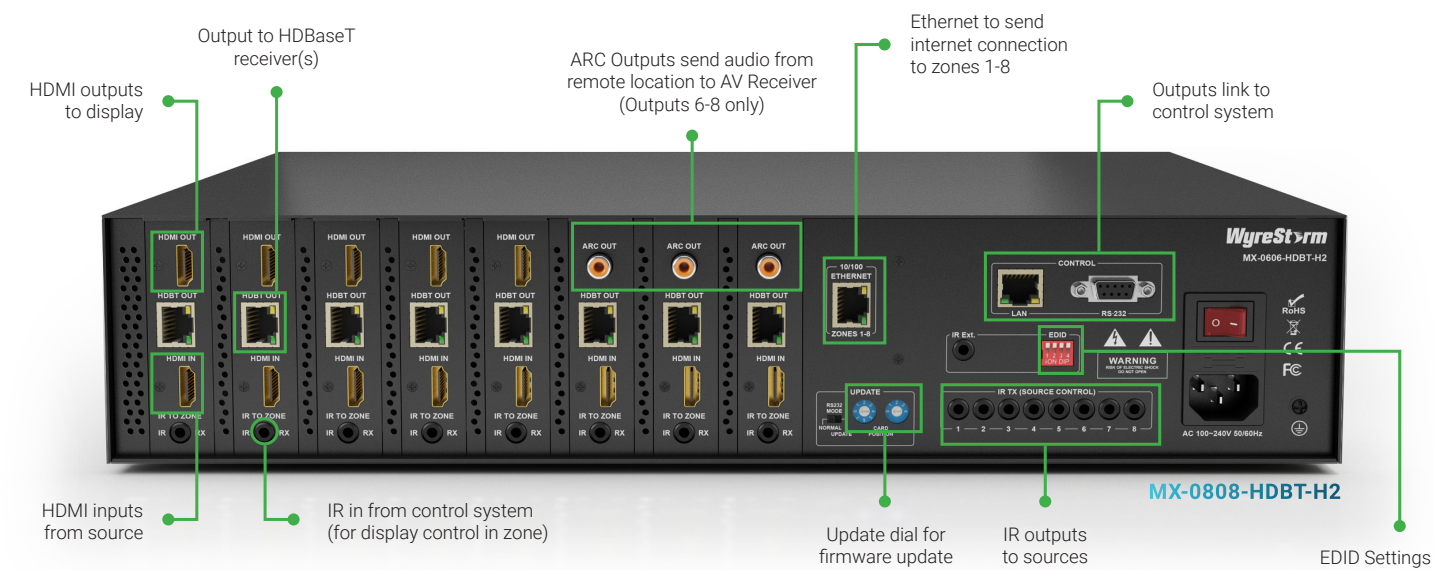
The modern classroom is a place the next generation of doctors, scientists, engineers and technicians interact with the next generation of AV technology.

WyreStorm's extensive line of award-winning NetworkHD™ AV over IP solutions facilitate that learning experience with truly scalable, campus-wide AV distribution of 2K and 4K content over a standard IP network.

Including wired and wireless multi-input presentation switching with WyreStorm ScreenLink collaboration software, multi-view scaling and video wall support, NetworkHD™ features full control with major third-party control systems, including WyreStorm Enado™ and our groundbreaking free NetworkHD Touch™ app for iPad.



4K Matrix Switchers



Fully Compliant

4K **HDCP 2.2**

High Dynamic Range or HDR adds spice to the 4K mix by offering better contrast, greater brightness levels and a wider, more natural color palette than traditional screen technology. The result makes films and TV shows look that bit closer to how our eyes see the world.

HDR10 has been around for a while but remains the standard form of HDR, currently competing with Dolby's own version of the technology, Dolby Vision.

HDCP 2.2 is the latest version of the HDCP digital content protection standard attached to all copyrighted 4K UHD content to protect the continually expanding amount of 4K UHD content available.

All WyreStorm 4K UHD matrix switchers, extenders, splitters and 4K over IP products already support this new encryption standard to ensure full compatibility with the very latest 4K HDR content, source and display devices.

SmartEDID



WyreStorm's unique EDID management technology dynamically adjusts EDID demands by scanning active outputs and monitoring source switching.

This allows 4K content to be displayed when the selected screens are 4K and automatically switch the source to 1080p when a 2K screen is selected for the same source.

This is a perfect way to ensure that the highest resolution available from the source is displayed on screens that support its maximum resolution.

Enhanced Audio Features

A.R.C

ARC, or 'Audio Return Channel' is essentially unique to the residential market. Unlike most HDMI information that flows 'downstream' to the screen, it allows audio information to flow 'upstream' from a smart TV to a compatible device, usually an AV receiver (AVR).

Therefore, a separate audio interconnection is not required. Content available within the TV, whether it be locally connected, network connected, or on-demand can have its audio sent via the ARC channel to a nearby connected AVR. This means that the content can be played through the local speakers just as if it were connected to the AVR itself.

The WyreStorm line features ARC compatible HDBaseT matrices and extenders that enable ARC content from a screen to be fed 'upstream' via HDBaseT over distances up to 100m/328ft to any audio amplification system.

ARC is also supported on the WyreStorm AMP-001-010 HDBaseT Repeating Receiver with Integrated 2.1 Audio Amplifier.

WyreStorm written drivers available, compatible control systems



Please contact your authorized WyreStorm representative or marketing@wyrestorm.com for product comparison tables.

INPUT	OUTPUT
4	4

2160p
4:4:4 60

4x4 4K HDR HDMI Matrix with HDCP 2.2
MX-0404-H2

- 4x4 pure HDMI to HDMI 4K matrix with HDR
- Supports 18Gb/s 4K/60 4:4:4 sources to HDMI 2.0 standard
- SmartEDID dynamically detects display/source capabilities to output the highest resolution available
- HDCP 2.2 compliant
- Control via IR, RS-232, LAN or WebUI

4K HDR HDMI HDCP 2.2



INPUT	OUTPUT
6 or 8	6 or 8

4K HDR HDBaseT Matrix Switchers with HDCP 2.2
(4K: 35m/115ft | 1080p: 70m/230ft)
MX-0606-HDBT-H2L | MX-0808-HDBT-H2L

- 6 or 8 HDMI inputs supporting 4K/60 4:2:0 8-bit or 4K 10-bit HDR at 24Hz
- Cost effective HDBaseT supporting distribution of 4K video, multichannel audio, bidirectional IR and local RS-232 control and PoH to 35m/115ft
- SmartEDID dynamically removes conflict when mixing 1080p and 4K displays
- QuickSync™ instant switching
- EDID management
- WebUI for switching, set-up and configuration

4K HDR HDBT HDMI HDCP 2.2 PoH



INPUT	OUTPUT
6	6

2160p
4:4:4 60

6x6 4K HDR HDMI Matrix with HDCP 2.2
MX-0606-H2

- 6x6 pure HDMI to HDMI 4K matrix with HDR
- Supports 18Gb/s 4K/60 4:4:4 sources to HDMI 2.0 standard
- SmartEDID dynamically detects display/source capabilities to output the highest resolution available
- HDCP 2.2 compliant
- Control via IR, RS-232, LAN or WebUI

4K HDR HDMI HDCP 2.2

INPUT	OUTPUT
4	4+1

4x4 4K HDR HDBaseT Matrix Kit with HDCP 2.2, Audio Breakout and 4x PoH Receivers (4K: 35m/115ft | 1080p: 70m/230ft)
MX-0404-HDBT-H2A-KIT

- HDBaseT transmission of 4K/60 4:2:0 up to 35m/98ft
- Output audio breakout via line level S/PDIF or 3.5mm phoenix port
- Supports 10-bit HDR at 24Hz over HDBaseT
- Single mirrored HDMI output for connection to local AVR or TV
- PoH technology powers the receivers from the matrix

4K HDR HDBT HDMI HDCP 2.2 PoH

INPUT	OUTPUT
6 or 8	6+6 or 8+8

4K HDR HDBaseT Matrix Switchers with ARC and HDCP 2.2
(4K: 70m/230ft | 1080p: 100m/328ft)
MX-0606-HDBT-H2 | MX-0808-HDBT-H2

- 6 or 8 HDMI inputs supporting 4K/60Hz 4:2:0 8-bit or 4K 10-bit HDR at 24Hz
- HDBaseT supporting 4K video, multichannel audio, bidirectional IR and local RS-232 control, PoH and Ethernet to 70m/230ft
- ARC enabled for audio breakout, mirrored HDMI outputs
- SmartEDID dynamically removes conflict when mixing 1080p and 4K displays
- QuickSync™ instant switching
- EDID management, WebUI for switching, set-up and configuration

4K HDR HDBT HDMI HDCP 2.2 PoH ARC






CUSTOM DISTRIBUTION: H2C THE DIFFERENCE

Choose between 6 or 8-way H2 matrix chassis built to your specification with a selection of transmission cards supporting up to 4K/60 4:2:0 8-bit and 10-bit HDR. Flexible, customizable multi-zone 4K UHD HDBaseT distribution tailor-made to the precise needs of your medium-sized residential or commercial AV projects.

INPUT	OUTPUT
up to 6	6+6



6x6 Modular HDBaseT 4K HDR Matrix Switcher with HDCP 2.2
(4K: 70m/230ft | 1080p: 100m/328ft)
MX-0606-HDBT-H2C

- 6-slot PoH-ready custom H2 matrix chassis with support for 4K UHD sources and HDCP 2.2
- Built to custom specification with up to 6x TX-H2 transmission cards
- SmartEDID dynamically removes conflict when mixing 1080p and 4K displays
- Embedded WebUI allows setup and configuration and provides switching interface
- Control drivers available for Crestron, AMX, RTI, Control4 and Elan
- Matrix switching control via IR, front panel, RS-232, IP Telnet or WebUI

4K HDR


CHDBT

HDCP 2.2

POH

ARC

INPUT	OUTPUT
up to 8	8+8



8x8 Modular HDBaseT 4K HDR Matrix Switcher with HDCP 2.2
(4K: 70m/230ft | 1080p: 100m/328ft)
MX-0808-HDBT-H2C

- 8-slot PoH-ready custom H2 matrix chassis with support for 4K UHD sources and HDCP 2.2
- Built to custom specification with up to 8x TX-H2 transmission cards
- SmartEDID dynamically removes conflict when mixing 1080p and 4K displays
- Embedded WebUI allows setup and configuration and provides switching interface
- Control drivers available for Crestron, AMX, RTI, Control4 and Elan
- Matrix switching control via IR, front panel, RS-232, IP Telnet or WebUI

4K HDR

CHDBT

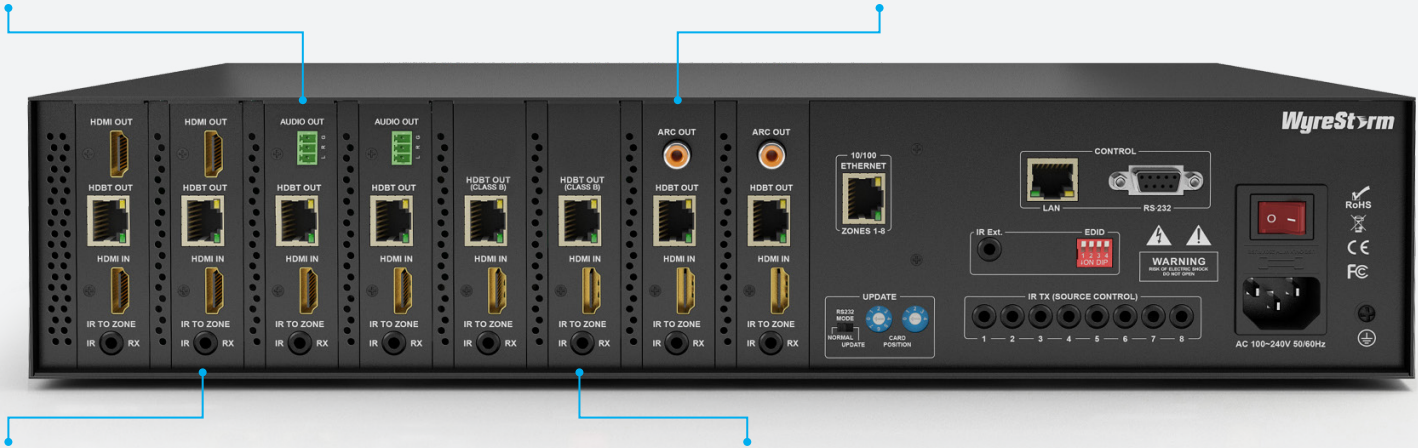
HDCP 2.2

POH

ARC

Make More of Audio
TX-H2-AUD
HDBaseT transmission with line-level audio breakout
(4K: 70m/230ft | 1080p: 100m/328ft)

Make the Most of SmartTVs
TX-H2-ARC
HDBaseT transmission with S/PDIF ARC output
(4K: 70m/230ft | 1080p: 100m/328ft)



Connectivity Flexibility
TX-H2-MIR
HDBaseT transmission with mirrored HDMI output
(4K: 70m/230ft | 1080p: 100m/328ft)

Lighten the HDBT Load
TX-H2-CLB
HDBaseT transmission without Ethernet
(4K: 35m/115ft | 1080p: 70m/230ft)

H2X SERIES: THE SOUND CHOICE

A leap forward in understanding AV signal management market demands for larger projects, the H2X Series offers a 10 or 16-way matrix solution with instant, zero latency HDBaseT switching of 4K HDR and integrated DSP audio matrixing of up to 48 separate audio signals, with optional HDBaseT Input card for source connection near or far.

INPUT	OUTPUT
10	10+10



10x10 4K HDR HDBaseT Matrix Switcher with 30x10 DSP Audio Matrix
(4K: 70m/230ft | 1080p: 100m/328ft)
MX-1010-HDBT-H2X

- 10-zone video and integrated audio matrix with HDBaseT
- Supports video, multichannel audio, bidirectional IR/RS-232, PoH and Ethernet
- 30-input audio matrix to 10 audio zones with HDMI de-embed, S/PDIF in and ARC
- Supports 4K/60 4:2:0 and 10-bit HDR at 24Hz to 70m/230ft and 1080p 48-bit to 100m/328ft
- 10x HDMI inputs offer 18Gb/s throughput to 10x HDMI outputs
- AVR Priority mode for all HDMI and HDBaseT outputs

4K HDR

CHDBT

HDCP 2.2

POH

ARC

INPUT	OUTPUT
16	16+16



16x16 4K HDR HDBaseT Matrix Switcher with 48x16 DSP Audio Matrix
(4K: 70m/230ft | 1080p: 100m/328ft)
MX-1616-HDBT-H2X

- 16-zone video and integrated audio matrix with HDBaseT
- Supports transmission of video, multichannel audio, bidirectional IR/RS-232, PoH and Ethernet
- 48-input audio matrix to 16 audio zones with HDMI de-embed, S/PDIF in and ARC
- Supports 4K/60 4:2:0 and 10-bit HDR at 24Hz to 70m/230ft and 1080p 48-bit to 100m/328ft
- 16x HDMI inputs offer 18Gb/s throughput to 16x HDMI outputs
- AVR Priority mode for all HDMI and HDBaseT outputs

4K HDR

CHDBT

HDCP 2.2

POH

ARC



Decentralize Your H2X Distribution with the Optional HDBaseT In/Out Transmission Module

- TX-H2X-HDBT**
- HDBaseT input and output is the ideal solution for sources located away from the rack to be distributed to all zones
 - Both HDBaseT ports offer PoH, audio input/output with DSP and control to TX and RX location



H2XC SERIES: TRUE 4K CUSTOM INSTALL

We've taken the incredible power and flexibility of the H2X Series for larger projects and given it the modular treatment with the new H2XC Series custom matrix switcher, offering integrators the utmost in AV distribution and control versatility.

The H2XC features a 10 or 16-way H2X Series chassis that can be populated by any selection of multi-format transmission card options supporting 18Gbps inputs and outputs, decentralized sources and 4K/60 4:4:4 over both copper and fiber. The result is a custom HDBaseT matrix solution for large projects requiring support for the latest 4K HDR content that gives the integrator the freedom to perfectly tailor the install to the application.

INPUT	OUTPUT
up to 10	up to 10+10

Available Q2 2018

2160p
4:4:4 60

10x10 Modular HDBaseT 4K HDR and Audio DSP Matrix (4K: 70m/230ft | 1080p: 140m/459ft | Fiber: 300ft/984ft)

MX-1010-HDBT-H2XC

- Customizable 10-slot H2X Series video and audio matrix switcher chassis
- Up to 30-input audio matrix switching, including HDMI de-embed, S/PDIF in and ARC
- Populate with personal selection of multi-format transmission card options including:
- HDBaseT input and output supporting 4K/60 10-bit HDR to 70m/230ft and 1080p 48-bit to 140m/459ft
- 18Gb/s 4K/60 4:4:4 and 4:2:2 HDR 12-bit over HDBT to 70m/230ft and multimode fiber to 300m/984ft
- Dedicated audio and video zone expansion

4K HDR

CHDBT

HDCP 2.2

PoH

ARC

INPUT	OUTPUT
up to 16	up to 16+16

Available Q2 2018

2160p
4:4:4 60

16x16 Modular HDBaseT 4K HDR and Audio DSP Matrix (4K: 70m/230ft | 1080p: 140m/459ft | Fiber: 300ft/984ft)

MX-1616-HDBT-H2XC

- Customizable 16-slot H2X Series video and audio matrix switcher chassis
- Up to 48-input audio matrix switching, including HDMI de-embed, S/PDIF in and ARC
- Populate with personal selection of multi-format transmission card options including:
- HDBaseT input and output supporting 4K/60 10-bit HDR to 70m/230ft and 1080p 48-bit to 140m/459ft
- 18Gb/s 4K/60 4:4:4 and 4:2:2 HDR 12-bit over HDBT to 70m/230ft and multimode fiber to 300m/984ft
- Dedicated audio and video zone expansion

4K HDR

CHDBT

HDCP 2.2

PoH

ARC

Decentralize Your Sources
TX-H2X-HDBT
HDBaseT input module allows remote source connection that is also part of the wider multi-zone distribution.

Visually Lossless 4K/60 4:4:4 Over HDBT
TX-H2X-VLC
Dynamically reacts to detected content with variable compression when needed to support 18Gbps 2160p 4:4:4 60Hz and 4K HDR transmissions over HDBaseT.

4K HDR with Extensive Audio Options
TX-H2X-HDMI
Local 18Gbps HDMI In/Out and HDBT over distance with ARC, S/PDIF In/Out and analog stereo Out for multi-room audio system or AVR connection.

4K/60 4:4:4 Goes Further with Fiber
TX-H2X-OM3
Utilizes our zero-latency, VLC technology within a 10Gbps multi-mode fiber module to deliver 18Gbps 4K/60 4:4:4 and HDR content/control up to 300m/984ft.

Receiver Options

4K HDR HDBaseT Receiver (4K: 70m/230ft | 1080p: 100m/328ft)
RX-70-4K

- Receives 4K UHD HDBaseT signals up to 70m/230ft from transmission device
- HDBaseT supporting video, audio, bidirectional IR/RS-232, PoH, Ethernet
- Low-profile 18mm chassis
- Can also be used with WyreStorm HDBaseT 5x1 and 10x1 presentation switchers and in-wall TX plates

4K HDR

CHDBT

HDCP 2.2

PoH

4K HDR HDBaseT Receiver with Audio De-embed and ARC/Optical Audio Return (4K: 70m/230ft | 1080p: 100m/328ft)
RX-70-4K-ARC

- HDBaseT 4K receiver with HDMI Audio Return Channel (ARC) support
- TosLINK input allows for audio from a TV without ARC support to send audio to the transmission device
- Optical/analog S/PDIF output allows for extraction of source audio from HDMI/HDBaseT signals
- ARC selectable between audio from HDMI or S/PDIF input
- PoH remotely powers receiver from the matrix with no local power at display location

4K HDR

CHDBT

HDCP 2.2

PoH

ARC

4K HDR HDBaseT Scaling Receiver with Dual Ethernet, ARC and HDCP 2.2 (4K: 70m/230ft | 1080p: 100m/328ft)
RX-70-4K-SCL

- Scales content sent over HDBaseT to match the capability of the connected display
- Downscales 4K/60 4:2:0 content as low as 576p
- Upscales received content to 4K/60 4:4:4
- Sends ARC via HDMI along with HDBaseT transmission
- Analog and S/PDIF output enables de-embedding of audio to send to audio systems

4K HDR

CHDBT

HDCP 2.2

ARC

Remote Input Options for HDBaseT Input Card

VGA/HDMI HDBaseT Transmitter (4K: 70m/230ft | 1080p: 100m/328ft)
TX-SW-0201

- Transmits 4K video, audio and control using HDBaseT via a single Cat5/6 cable directly into a projector or HDBaseT enabled display
- Connects and auto-switches between HDMI and VGA sources
- Transmitter includes audio input to embed audio with the VGA signal
- Fully compatible with Epson, Sony, Panasonic and Digital Projection HDBaseT input-enabled projectors

4K

CHDBT

HDMI

HDCP 2.2

4K HDR HDBaseT Transmitter (4K: 70m/230ft | 1080p: 100m/328ft)
TX-70-4K

- Transmits 4K UHD HDR signals up to 70m/230ft and 1080p signals up to 100m/328ft to a matrix or receiver
- Low profile 18mm chassis
- Supports video, audio, bidirectional control signals, power and Ethernet
- PoH compatible, powered by matrix or switcher
- HDCP 2.2 Compliant

4K HDR

CHDBT

HDCP 2.2

PoH

IN-WALL TX AND
STANDALONE RX KITS
ALSO AVAILABLE ON P.39

4K HDMI only and HDMI/VGA over HDBaseT In-Wall Transmitter (4K: 70m/230ft | 1080p: 100m/328ft)
TX-IW-70-POH | TX-SW-IW-0201

- HDMI only (TX-IW-70-POH) or HDMI/VGA auto-switching 2-Gang Decora wall plate (TX-SW-IW-0201)
- Power locally or PoH from compatible WyreStorm receiver (RX-70-4K v2)
- HDBaseT supporting 4K video, audio, bidirectional IR/RS-232, power, Ethernet up to up to 70m/230ft or 1080p to 100m/328ft
- Built-in IR receiver window for easy TV/Projector control

4K UHD

CHDBT

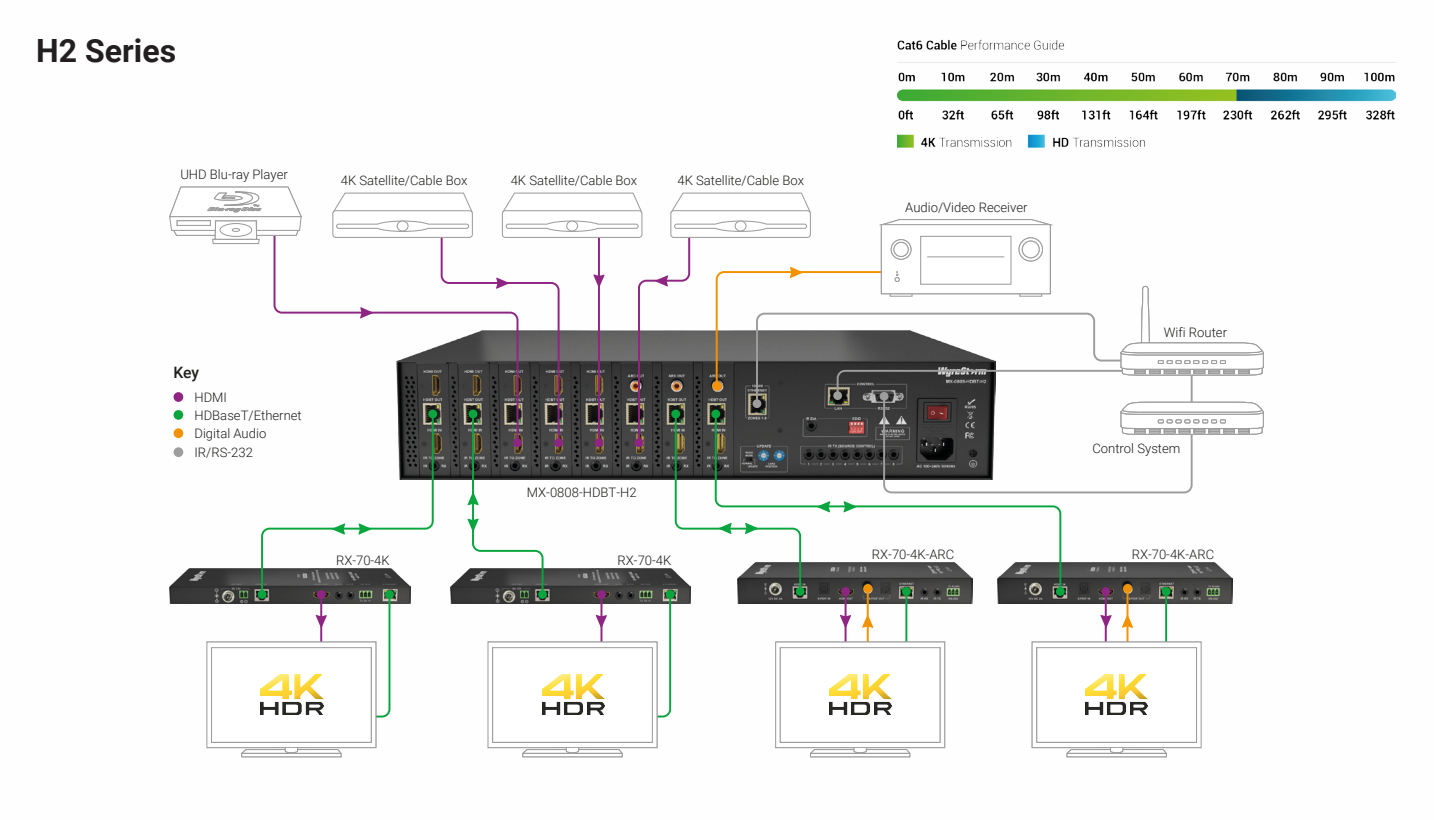
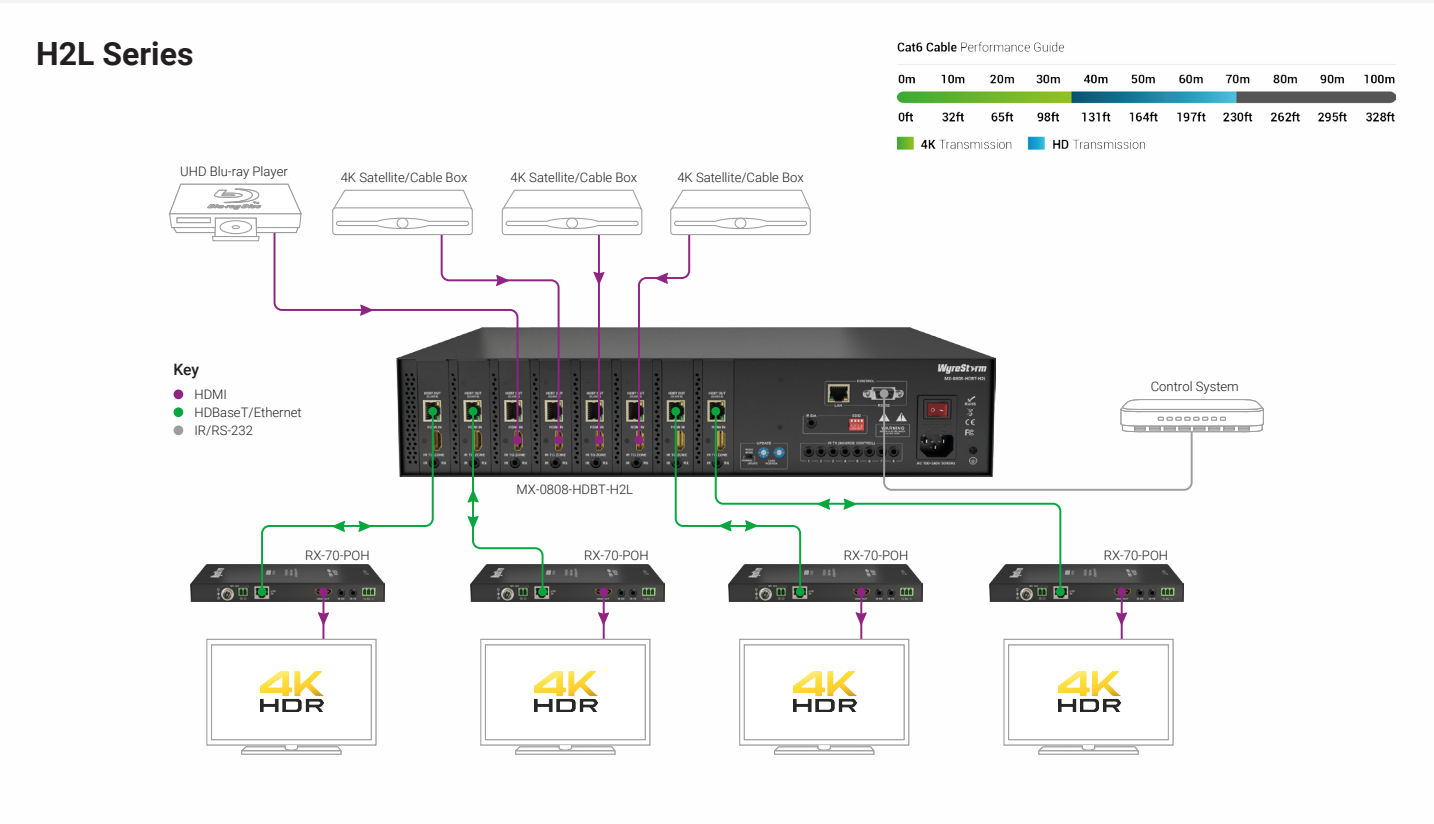
HDCP 2.2

PoH

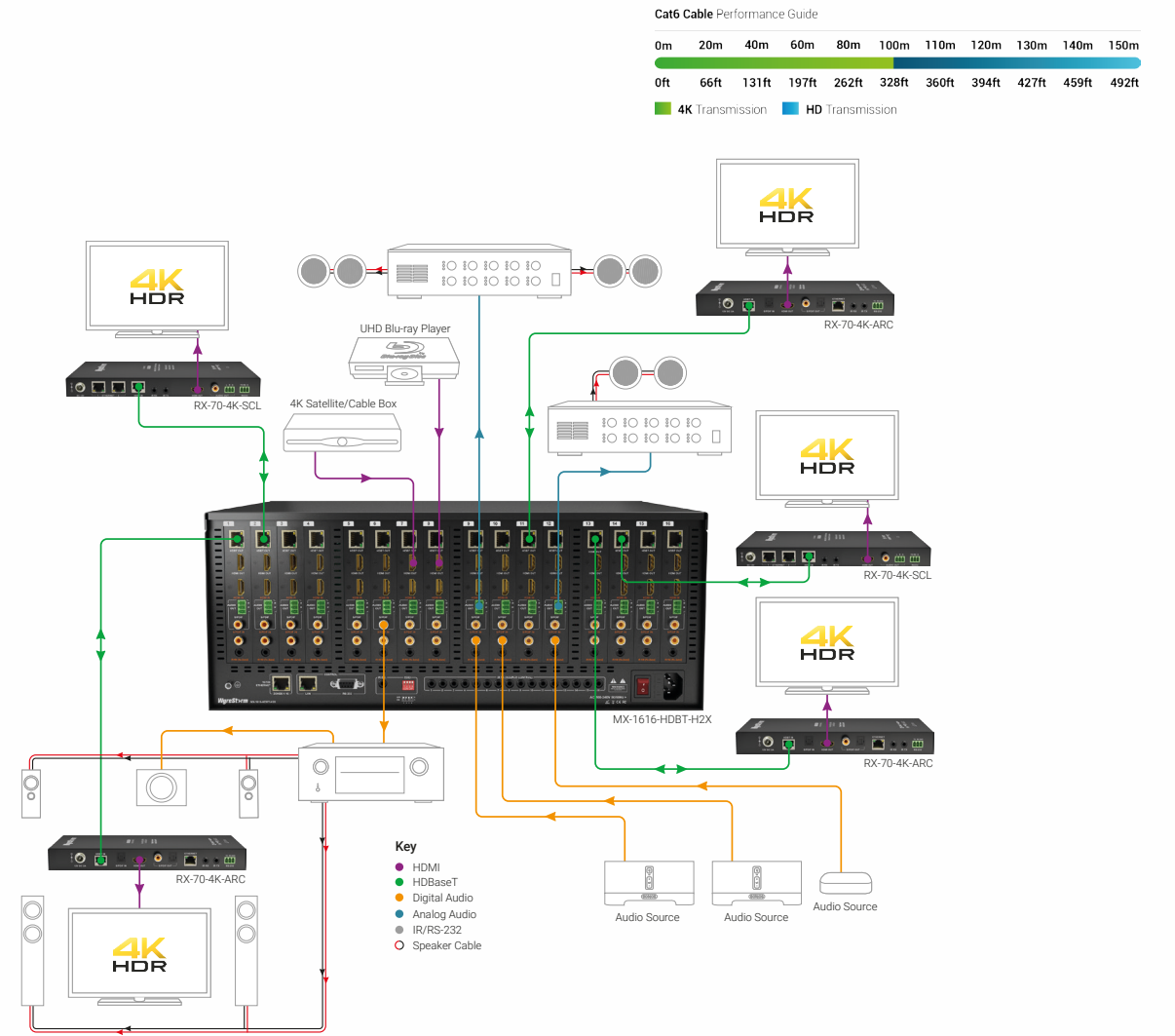
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21

4K Matrix Switcher Applications



H2X Series



H2XC Series Transmission Card Options



Decentralize Your Sources
TX-H2X-HDBT
HDBaseT input module allows remote source connection that is also part of the wider multi-zone distribution.



4K HDR with Extensive Audio Options
TX-H2X-HDMI
Local 18Gbps HDMI In/Out and HDBT over distance with ARC, S/PDIF In/Out and analog stereo Out for multi-room audio system or AVR connection.



Visually Lossless 4K/60 4:4:4 Over HDBT
TX-H2X-VLC
Dynamically reacts to detected content with variable compression when needed to support 18Gbps 4K/60 4:4:4 and HDR transmissions over HDBaseT.

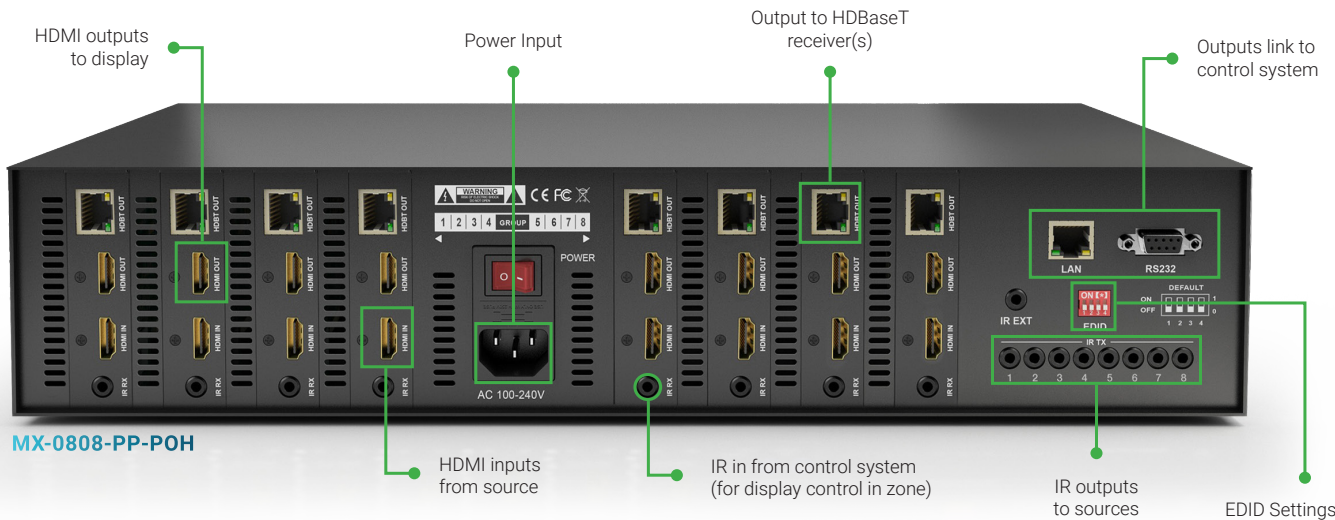


4K/60 4:4:4 Goes Further with Fiber
TX-H2X-OM3
Utilizes our zero-latency, VLC technology within a 10Gbps multi-mode fibre module to deliver 18Gbps 4K/60 4:4:4 and HDR content/control up to 300m/984ft.

2160p
4:4:4 60

2160p
4:4:4 60

2K Matrix Switchers



MX-0808-PP-POH

HDBaseT with Power



HDBaseT is the standard in multi-zone distribution of uncompressed video, multichannel audio, power, Ethernet and control over RS-232, IP and bidirectional IR along a single Cat5e/6 cable.

Power over HDBaseT (PoH) enables power to be transmitted along with the data via the cable to power receivers in display zones for greater convenience and flexibility during installation compared to a permanent mains connection.

As one of the first manufacturers to join the HDBaseT Alliance in 2010, WyreStorm is among the foremost experts in HDBaseT technology in the industry with one of the broadest, most comprehensive ranges of HDBaseT products available. So you can be sure we know our stuff.

The 4K or 2K Debate



We might live in a 4K world but that doesn't mean that every application needs 4K, particularly when it comes to commercial projects.

The hospitality sector might be leading the demand for 4K in bars, hotels, clubs and restaurants, but the truth is for applications such as signage, education or corporate, 2K still rules.

So, whether a project requires the use of existing 2K screens or if the application just doesn't call for that Ultra High Definition or HDR image quality, you can make considerable savings in your budget by staying HD while retaining all the benefits of rock solid AV and control delivery over distance.

Custom HD Delivery



Our line of custom 8x8 and 16x16 matrix chassis feature a selection of 11 modular multi-format transmission cards, which can be combined in any configuration for truly custom HD distribution.

- Transmission options include:
- HDMI, YUV, VGA, DVI with stereo audio
 - HDMI out only, HDBaseT out only or audio-only to skew the number of audio and video zones in an install
 - HDBaseT input to support decentralized source connection and distribution through the matrix
 - HDMI pass-through source loop out to allow transmissions to be cascaded up to 7 times to daisy-chain multiple matrices supporting up to 784 screens

INPUT	OUTPUT
4	4



4x4 HDMI Matrix Kit with 4x UTP Receivers (1080p: 40m/131ft)

MX-0404-QI

- Conventional single UTP distribution of 1080p HD video/24bit and HD audio to 40m/131ft
- Includes 4 x 40m/131ft display receivers
- One-way IR, Matrix control via RS-232 or LAN
- EDID management



INPUT	OUTPUT
6	6+6



6x6 HDBaseT Matrix Switcher with PoH (1080p: 70m/230ft)

MX-0606-PP-POH

- 6x HDMI Input - 6x HDBaseT Output + 6x HDMI output (mirrored)
- Distributes 1080p and multichannel HD audio to 70m/230ft
- Control via Bidirectional IR, RS-232 and IP
- Routed serial commands to all outputs via RS-232 or IP
- QuickSync™ instant switching, EDID management
- WebUI gives simple switching interface and allows easy setup & configuration



INPUT	OUTPUT
8	8+8



8x8 HDBaseT Matrix Switcher with PoH (1080p: 70m/230ft)

MX-0808-PP-POH

- 8x HDMI Input - 8x HDBaseT Output + 8x HDMI output (mirrored)
- Distributes 1080p and multichannel HD audio to 70m/230ft
- Control via Bidirectional IR, RS-232 and IP
- Routed serial commands to all outputs via RS-232 or IP
- QuickSync™ instant switching, EDID management
- WebUI gives simple switching interface and allows easy setup & configuration



INPUT	OUTPUT
16	16+16



16x16 HDBaseT Matrix Switcher with PoH (1080p: 70m/230ft)

MX-1616-PP-POH

- 16x HDMI Inputs to 16x HDBaseT and 16x mirrored HDMI outputs
- Distributes 1080p and multichannel HD audio to 70m/230ft
- Control via bidirectional IR, RS-232 and IP
- Routed serial commands to all outputs via RS-232 or IP
- QuickSync™ instant switching, EDID management
- PoH powers all connected compatible HDBaseT receivers
- WebUI offers a simple switching interface and easy setup/configuration



WyreStorm written drivers available, compatible control systems




YOUR AV. YOUR PROJECT. GO CONFIGURE

WyreStorm MX-PP-POH-CUSTOM Series matrix switchers take custom HD video and audio distribution to the next level with a completely modular built-to-order matrix solution comprising a choice of 8x8 or 16x16 chassis loaded with your personal selection of multi-format transmission modules configured in any combination.





Choose from 11 different digital and analog transmission modules, including HDMI, YUV, VGA and DVI with stereo audio, as well as HDBaseT Input, audio-only sources and cascable HDMI loop out. For a truly custom distribution tailored to the precise needs of your application - go configure.

INPUT	OUTPUT
up to 8	up to 8




8 Slot HDBaseT Modular Matrix Chassis (1080p: 70m/230ft)
MX-0808-PP-POH-CUSTOM

- HDBaseT 1080p 60Hz/36bit video, multichannel audio, bidirectional control up to 70m/230ft
- Power Over HDBaseT remotely powers all connected compatible receivers
- Control via bidirectional IR, routed RS-232 for serial control of all connected output devices with support for major control systems
- QuickSync™ instant frameless switching, EDID management
- Matrix outputs cascable to a maximum of 56 screens
- 2U chassis







INPUT	OUTPUT
up to 16	up to 16



16 Slot HDBaseT Modular Matrix Chassis (1080p: 70m/230ft)
MX-1616-PP-POH-CUSTOM

- HDBaseT 1080p 60Hz/36bit video, multichannel audio, bidirectional control up to 70m/230ft
- Power Over HDBaseT remotely powers all connected compatible receivers
- Control via bidirectional IR, routed RS-232 for serial control of all connected output devices with support for major control systems
- QuickSync™ instant frameless switching, EDID management
- Matrix outputs cascable to a maximum of 112 screens
- Choose from 11 different transmission cards
- Input from HDMI, YUV, VGA, DVI or even audio-only sources
- 3U chassis supports up to 16 custom inputs and 16 custom outputs



Connectivity Flexibility
TX-POH-010
HDBaseT Out, HDMI Out, HDMI In, IR In

Free Your Audio
TX-POH-030
HDBaseT Out, Audio Breakout, HDMI In, IR In

Direct DVI Connectivity
TX-POH-050
HDBaseT Out, DVI Input, IR In

VGA Over Distance
TX-POH-070
HDBaseT Out, VGA + Stereo Audio In, IR In

High Quality Analog Video
TX-POH-090
HDBaseT Out, Component + Audio, IR In

Local Delivery Local Expansion
TX-POH-110
HDMI In, HDMI Out, Source Loop HDMI Out

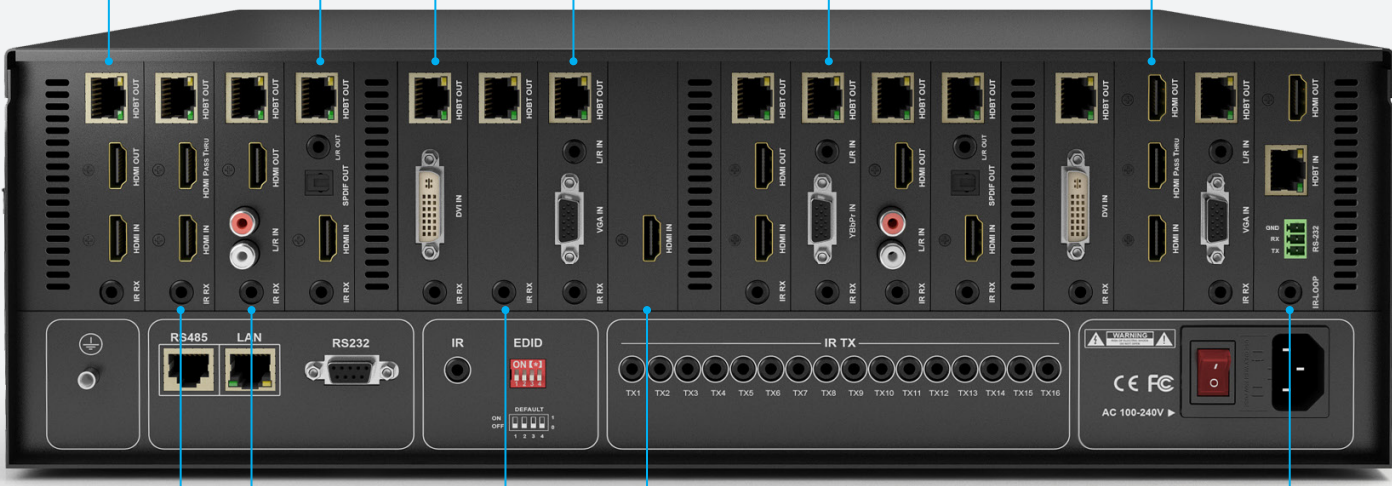
Remote Delivery Local Expansion
TX-POH-020
HDBaseT Out, HDMI Source Loop, HDMI In, IR In

Added Audio Connectivity
TX-POH-040
HDBaseT Out, HDMI Out, Audio In Only, IR In

Remote Distribution Only
TX-POH-060
HDBaseT Out, IR In

All You Need is HDMI
TX-POH-080
HDMI Input Only

Decentralize Sources
TX-POH-100
HDBT In, HDMI Out, IR and Serial Loop



Receiver Options



4K HDBaseT Receiver with Bidirectional IR, RS-232 & PoH (4K: 35m/115ft | 1080p: 70m/230ft)

RX-70-POH

- Receives 4K HDBaseT signals up to 35m/115ft and 1080p up to 70m/230ft from a compatible transmission device
- Bidirectional IR or RS-232 passthrough
- CEC passthrough
- Low profile 18mm chassis
- Internal EDID management



Remote Input Options for HDBaseT Input Card



4K VGA/HDMI over HDBaseT Transmitter (4K: 70m/230ft | 1080p: 100m/328ft)

TX-SW-0201

- Transmits 4K video, audio and control using HDBaseT via a single Cat5/6 cable directly into a projector or HDBaseT enabled display
- Connects and auto-switches between HDMI and VGA sources
- Transmitter includes audio input to embed audio with the VGA signal
- Fully compatible with Epson, Sony, Panasonic and Digital Projection HDBaseT input-enabled projectors



HDBaseT Repeating Receiver with Integrated 2.1 Audio Amplifier (1080p: 70m/230ft)

AMP-001-010

- HDMI over HDBaseT extender and audio amplifier capable of transmitting 1080p up to 70m/230ft
- Features a 2x 25w Class D amplifier for amplification of local speakers and sub-woofer pre-out at the display
- Also allows for ARC and Local audio inputs (at the display)
- Transmissions can be daisy-chained up to 7x times for large venue installations using just one cascaded single cable output



IN-WALL TX AND STANDALONE RX KITS ALSO AVAILABLE ON P.39



4K HDMI/VGA over HDBaseT Auto-Switching In-Wall Transmitter (4K: 70m/230ft | 1080p: 100m/328ft)

TX-SW-IW-0201

- HDMI/VGA auto-switching 2-Gang Decora wall plate extending 4K UHD video, audio, control, Ethernet and power up to 70m and 1080p to 100m
- Bidirectional IR and RS-232 control
- Power locally or PoH from a compatible WyreStorm receiver (RX-70-4K v2)
- Built-in IR receiver window for easy TV/Projector control



IN-WALL TX AND STANDALONE RX KITS ALSO AVAILABLE ON P.39



4K HDMI over HDBaseT In-Wall Transmitter (4K: 70m/230ft | 1080p: 100m/328ft)

TX-IW-70-POH

- 2-Gang Decora wall plate extending 4K UHD video (HDMI only), audio, control, Ethernet and power up to 70m and 1080p to 100m
- Bidirectional IR and RS-232 control
- Power locally or PoH from a compatible WyreStorm receiver (RX-70-4K v2)
- Built-in IR receiver window for easy TV/Projector control



Presentation Solutions

Audio Input

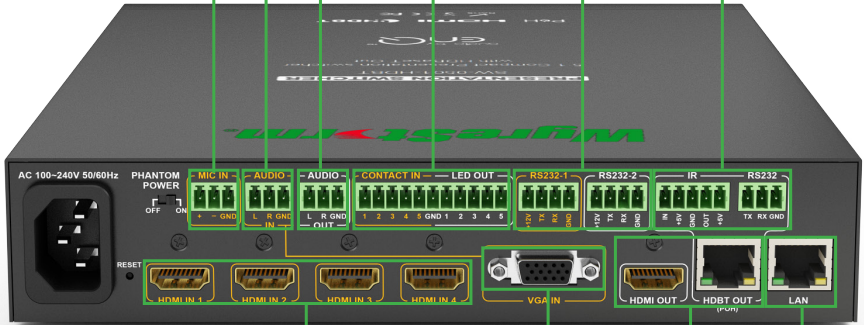
Microphone Input

Balanced Audio Output

RS-232 ports for control and update

Contact closure port for source selection

Embedded IR & RS-232 for HDBaseT out link (RX)



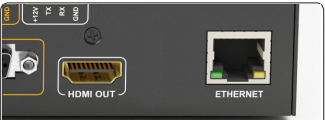
SW-0501-HDBT

4 HDMI inputs

VGA input

Mirrored HDBaseT and HDMI Output

LAN port for control & incoming Screenlink™ content




Also available as an IP streaming NetworkHD™ model NHD-SW-0501.

See AV over IP section for details.

Collaboration


Comprehensive Control

Seamless Switching




WyreStorm ScreenLink is collaboration software for wired or wireless (Wi-Fi) network display-sharing through WyreStorm 5x1 HDBaseT and IP presentation switcher models, the SW-0501-HDBT and NetworkHD™ NHD-SW-0501.

Supporting multiple Windows and Mac devices per WyreStorm presentation switcher, ScreenLink offers a screen mirroring solution that combines a hardwired connection for displaying uncompressed video without latency with the convenience of a wireless laptop connection for the best of both collaboration worlds.



Consumer Electronics Control (CEC) is capable of communicating power, switching and volume commands between devices. CEC commands are communicated via an HDMI cable and are typically used to enable 'consumer electronics' devices to communicate without the need for a separate control device.

WyreStorm has embraced this technology for several years, with our HDBaseT extenders passing CEC from screen to source. The new generation of WyreStorm switchers feature 'Active CEC' to enable the ability to trigger a power on/off screen command, either automatically or via the control protocol. So kiss goodbye to unsightly IR emitters attached to the front of displays.



We're all about placing the highest priority on the user experience. Optimizing source switching speeds is an important way of doing just that.


Customers expect near-instantaneous switching from one source to another. With our proprietary fast-switching technology included on our full line of presentation switchers, we deliver - and at industry-leading speeds.

Whether using the SW-0501-HDBT presentation switcher in a boardroom, or the SM-0402-MV-HDMI multi-view switcher in a huddle room, our seamless switching is so fast, if you blink you'll miss it!

WyreStorm written drivers available, compatible control systems

Please contact your authorized WyreStorm representative or marketing@wyrestorm.com for product comparison tables.

INPUT	OUTPUT
2	1



2x1 VGA/HDMI Smart Switcher with CEC
SW-0201-4K


- Automatic or manual switching between HDMI and VGA inputs to a single HDMI output
- VGA audio embed
- Automatic or manual trigger of CEC enabled screen
- Contact output for desk plate button control

4K

HDMI

CEC

INPUT	OUTPUT
4	1



4x1 HDMI/DisplayPort/VGA over HDBaseT Presentation Switcher with CEC Control (4K/30Hz: 70m/230ft | 1080p: 100m/328ft)
SW-0401-HDBT

- 4x input smart presentation switch with dual scaled outputs
- Mirrored HDMI out with up to 4K/30 scaler and balanced audio output
- HDBaseT transmission of 4K video, audio, power, Ethernet and control signals
- Built-in CEC controller to turn on/off sink device by auto-detecting source status
- Automatic switching between VGA, DisplayPort and two HDMI inputs

4K


HDBT

HDCP

POH

CEC

INPUT	OUTPUT
3+1	1



3x1 HDBaseT Smart Switcher/Extender with Scaling Receiver Featuring Relay Triggering and HDCP 2.2
EX-SW-0301-H2

- 3x input to single HDBaseT output switcher/extender for education or huddle room environments
- Featuring HDMI, DisplayPort and VGA inputs with auto/manual switching
- 2x automatically (condition based) or manually triggered relays on receiver
- Receiver has HDMI input for the connection of an additional external device, such as a signage player when a room is not in use
- Control TX via Ethernet port on RX
- Compatible with 4K/60 4:2:0 sources

4K


HDBT

HDCP 2.2

POH

Available Q2 2018

INPUT	OUTPUT
4+2	1+1



4x1 HDMI/VGA/DP/USB-C Switching Extender with USB2.0 KVM and Condition Based Relays (4K: 40m/131ft | 1080p: 70m/230ft)
EX-SW-0401-H2-PRO

- 4x input professional switcher/extender for video conference and meeting rooms
- Bidirectional USB2.0 for connection of webcams, smart whiteboards, touchscreens and microphones
- Inputs include HDMI, VGA, DisplayPort 1.3 and USB 3.1c
- Supports source content up to 4K/60 4:2:0
- Variable audio de-embed on receiver
- Automatic or manual CEC triggering for compatible connected screens or projectors

4K

HDBT

HDMI

HDCP 2.2

Available Q2 2018

System Design Assistance

Need help planning a project? Our system design team can work with you to produce a focused system schematic, outlining connections and equipment topology required to realize project aims, while utilizing an optimized and budget-aware approach.

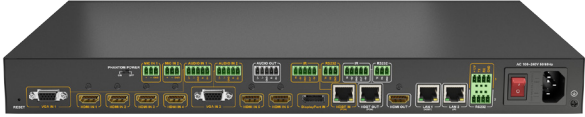
Whether you're a designer, specifier, integrator or project manager, working with a WyreStorm system design specialist will help focus your project and ensure the right technology is being used for the application. You'll benefit from functional and easy to follow system diagrams to use in project tenders and proposals that will add value to any opportunity, as well as separating you from the competition.

Get in contact with us at systemdesigns@wyrestorm.com and let us help you get your project started!

28

29







INPUT	OUTPUT
10	1+1




10x1 Presentation Switcher/Scaler with Mic Inputs, HDBaseT In/Out and Seamless Switch (1080p: 100m/328ft)

SW-1001-HDBT

- 6x HDMI, 1x DisplayPort, 1x HDBaseT Inputs and 2x VGA audio source inputs to duplicate HDBaseT and HDMI outputs
- Supports 2x microphone inputs, 2x stereo audio inputs and 1x auto-mix stereo audio output
- Automatically triggers display power over HDMI (CEC) or RS-232
- Auto scaler 640x480 to 1920x1200 at 60Hz









INPUT	OUTPUT
5	1+1



5x1 Compact Presentation Switcher/Scaler with CEC Control, Mic Input and HDBaseT Output (1080p: 100m/328ft)

SW-0501-HDBT (NHD-SW-0501 IP STREAMING MODEL ALSO AVAILABLE)

- 4x HDMI and 1x VGA + audio source inputs to HDBaseT and mirrored HDMI output
- Microphone input allows local audio to be mixed with sources and output via line out
- Built in scaler allows for instant source switching
- Automatically triggers display power over HDMI (CEC) or RS-232
- Auto scaler 640x480 to 1920x1200 at 60Hz
- WyreStorm ScreenLink™ collaboration software allows screen mirroring from multiple Windows PC or MacOS computers





INPUT	OUTPUT
4	2



4x2 Multi-View Scaling Matrix Switch with PiP and Dynamic Windowing

SW-0402-MV-HDMI

- Each input offers analog or digital AV connectivity options (HDMI, VGA, YUV + 2 audio)
- Dual HDMI out - duplicate output or 4x2 matrix
- View any or all sources on full/partial screen, PiP, 2x2 quad-screen view or anywhere on the screen
- Seamless switching, with scaling output up to 3840x2160p at 30Hz
- Advanced image processor controls source opacity and image border



INPUT	OUTPUT
4	2



4x2 Multi-View Scaling Matrix Switch, PiP, Dynamic Windowing & HDBaseT Output (4K: 35m/115ft | 1080p: 70m/230ft)

SW-0402-MV-HDBT

- Each input offers analog or digital AV connectivity options (HDMI, VGA, YUV + 2x audio), with 1x HDBaseT and 1x HDMI output
- HDBaseT transmits 4K to 35m/115ft and 1080p to 70m/230ft
- View any or all sources on full/partial screen, PiP, 2x2 quad-screen view or anywhere on the screen.
- Seamless switching with scaling output up to 3840x2160p at 30Hz
- Advanced image processor controls source opacity and image border





TIME TO HUDDLE

SW-0501-HDBT

NHD-SW-0501

System Build Check List				
Switcher	Receiver Options	Remote Input Options	Control	
SW-0201-4K	-	-	-	-
SW-0401-HDBT	RX-70-POH	-	WyreStorm Enado™	Crestron
SW-0501-HDBT	AMP-001-010 RX-70-POH	-	WyreStorm Enado™	Crestron
NHD-SW-0501	NetworkHD™ 100/200 Series decoder	-	WyreStorm NetworkHD Touch™ WyreStorm Enado™	Multiple third party control support - see NetworkHD™ website for details
SW-1001-HDBT	AMP-001-010 RX-70-POH	TX-0201 TX-IW-70-POH TX-IW-0201	WyreStorm Enado™	Crestron
SW-0402-MV-HDMI	-	-	WyreStorm Enado™	RTI Control4
SW-0402-MV-HDBT	RX-70-4K	-	WyreStorm Enado™	RTI Control4

“I love wasting meeting time trying to connect devices and share my screen” - said no one, ever.

With so much time wasted during valuable meeting or class time trying to set up multi-user content sharing, WyreStorm 5x1 HDBaseT and NetworkHD™ presentation switchers with ScreenLink display-sharing offer a quicker, easier way to make the most of your meetings. Wired or wirelessly.

Available on HDBaseT (SW-0501-HDBT) or low bandwidth H.264 streamed platforms (NHD-SW-0501), both presentation switcher models include mirrored HDMI outputs and support connection of multiple simultaneous Windows and MacOS devices for access from any network-connected location, whether within a single room, an entire building, facility or university campus.

And focusing on a flawless user experience, our free standalone ScreenLink display-sharing software features a simple three-step on-screen set-up process with fast connection of new devices to enable users of any technical ability to share their screens in seconds.

Learn more about ScreenLink and WyreStorm 5x1 HDBaseT and NetworkHD™ AVoIP presentation switchers at wyrestorm.com

Receiver Options



4K HDBaseT Receiver with Bidirectional IR, RS-232 & PoH (4K: 35m/115ft | 1080p: 70m/230ft)

RX-70-POH

- Receives 4K HDBaseT signals up to 35m/115ft and 1080p up to 70m/230ft from a compatible transmission device
- Bidirectional IR or RS-232 passthrough
- CEC passthrough
- Low profile 18mm chassis
- Internal EDID management



Remote Input Options for SW-1001-HDBT



4K VGA/HDMI over HDBaseT Transmitter (4K: 70m/230ft | 1080p: 100m/328ft)

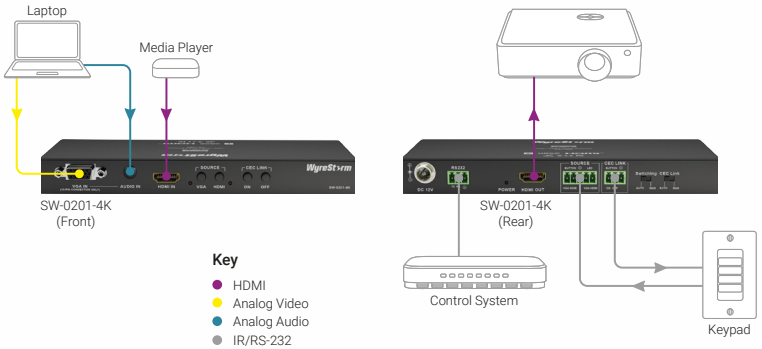
TX-SW-0201

- Transmits 4K video, audio and control using HDBaseT via a single Cat5/6 cable directly into a projector or HDBaseT enabled display
- Connects and auto-switches between HDMI and VGA sources
- Transmitter includes audio input to embed audio with the VGA signal
- Fully compatible with Epson, Sony, Panasonic and Digital Projection HDBaseT input-enabled projectors

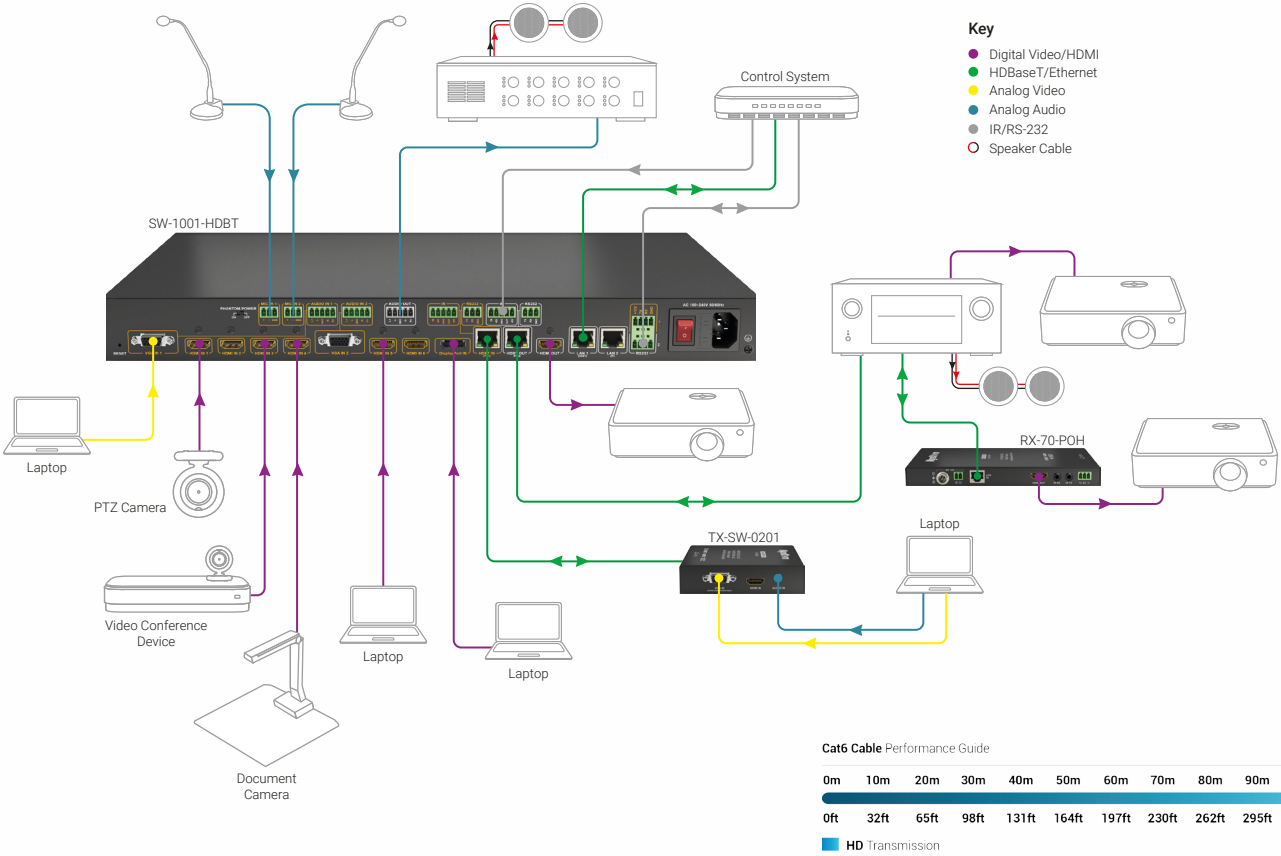


Presentation Solutions Applications

Auto Switching Extender for Small Meeting Rooms & Classrooms



Large Board Room Solution with Remote HDBaseT Input



4K HDR HDBaseT Receiver (4K: 70m/230ft | 1080p: 100m/328ft)

RX-70-4K

- Receives 4K UHD HDBaseT signals up to 70m/230ft from transmission device
- HDBaseT supporting video, audio, bidirectional IR/RS-232, PoH, Ethernet
- Low-profile 18mm chassis
- Can also be used with WyreStorm HDBaseT 5x1 and 10x1 presentation switchers and in-wall TX plates



IN-WALL TX AND STANDALONE RX KITS ALSO AVAILABLE ON P.39

4K HDMI/VGA over HDBaseT Auto-Switching In-Wall Transmitter (4K: 70m/230ft | 1080p: 100m/328ft)

TX-SW-IW-0201

- HDMI/VGA auto-switching 2-Gang Decora wall plate extending 4K UHD video, audio, control, Ethernet and power up to 70m and 1080p to 100m
- Bidirectional IR and RS-232 control
- Power locally or PoH from a compatible WyreStorm receiver (RX-70-4K v2)
- Built-in IR receiver window for easy TV/Projector control



HDBaseT Repeating Receiver with Integrated 2.1 Audio Amplifier (1080p: 70m/230ft)

AMP-001-010

- HDMI over HDBaseT extender and audio amplifier capable of transmitting 1080p up to 70m/230ft
- Features a 2x 25w Class D amplifier for amplification of local speakers and sub-woofer pre-out at the display
- Also allows for ARC and Local audio inputs (at the display)
- Transmissions can be daisy-chained up to 7x times for large venue installations using just one cascaded single cable output



IN-WALL TX AND STANDALONE RX KITS ALSO AVAILABLE ON P.39

4K HDMI over HDBaseT In-Wall Transmitter (4K: 70m/230ft | 1080p: 100m/328ft)

TX-IW-70-POH

- 2-Gang Decora wall plate extending 4K UHD video (HDMI only), audio, control, Ethernet and power up to 70m and 1080p to 100m
- Bidirectional IR and RS-232 control
- Power locally or PoH from a compatible WyreStorm receiver (RX-70-4K v2)
- Built-in IR receiver window for easy TV/Projector control



Transmitters and Receivers



Please contact your authorized WyreStorm representative or marketing@wyrestorm.com for product comparison tables.



4K VGA/HDMI over HDBaseT Transmitter (4K: 70m/230ft | 1080p: 100m/328ft)

TX-SW-0201

- Transmits 4K video, audio and control using HDBaseT via a single Cat5/6 cable directly into a projector or HDBaseT enabled display
- Connects and auto-switches between HDMI and VGA sources
- Transmitter includes audio input to embed audio with the VGA signal
- Fully compatible with Epson, Sony, Panasonic and Digital Projection HDBaseT input-enabled projectors



4K HDBaseT Transmitter/Receiver with Bidirectional IR, RS-232 & PoH (4K: 35m/115ft | 1080p: 70m/230ft)

TX-70-POH | RX-70-POH

- Transmits/Receives 4K HDBaseT signals up to 35m/115ft and 1080p up to 70m/230ft from a compatible transmission device
- Bidirectional IR or RS-232 passthrough
- CEC passthrough
- Low profile 18mm chassis
- Internal EDID management



4K HDR HDBaseT Transmitter/Receiver (4K: 70m/230ft | 1080p: 100m/328ft)

TX-70-4K | RX-70-4K

- Transmits/Receives 4K HDR HDBaseT signals up to 70m/230ft from transmission device
- HDBaseT supporting video, audio, bidirectional IR/RS-232, PoH, Ethernet
- Low-profile 18mm chassis
- Can also be used with WyreStorm HDBaseT 5x1 and 10x1 presentation switchers and in-wall TX plates



HDBaseT Repeating Receiver with Integrated 2.1 Audio Amplifier (1080p: 70m/230ft)

AMP-001-010

- HDMI over HDBaseT extender and audio amplifier capable of transmitting 1080p up to 70m/230ft
- Features a 2x 25w Class D amplifier for amplification of local speakers and sub-wwoofer pre-out at the display
- Also allows for ARC and Local audio inputs (at the display)
- Transmissions can be daisy-chained up to 7x times for large venue installations using just one cascaded single cable output



4K HDR HDBaseT Receiver with Audio De-embed and ARC/ Optical Audio Return (4K: 70m/230ft | 1080p: 100m/328ft)

RX-70-4K-ARC

- HDBaseT 4K receiver with HDMI Audio Return Channel (ARC) support
- TOSLINK input allows for audio from a TV without ARC support to send audio to the transmission device
- Optical/analog S/PDIF output allows for extraction of source audio from HDMI/HDBaseT signals
- ARC selectable between audio from HDMI or S/PDIF input
- PoH remotely powers receiver from the matrix with no local power at display location



4K HDR HDBaseT Scaling Receiver with Dual Ethernet, ARC and HDCP 2.2 (4K: 70m/230ft | 1080p: 100m/328ft)

RX-70-4K-SCL

- Scales content sent over HDBaseT to match the capability of the connected display
- Downscales 4K/60 4:2:0 content as low as 576p
- Upscales received content to 4K/60 4:4:4
- Sends ARC via HDMI along with HDBaseT transmission
- Analog and S/PDIF output enables de-embedding of audio to send to audio systems



IN-WALL TX AND
STANDALONE RX KITS
ALSO AVAILABLE ON P.39

4K HDMI only and HDMI/VGA over HDBaseT In-Wall Transmitter (4K: 70m/230ft | 1080p: 100m/328ft)

TX-IW-70-POH | TX-SW-IW-0201

- HDMI only (TX-IW-70-POH) or HDMI/VGA auto-switching 2-Gang Decora wall plate (TX-SW-IW-0201)
- • Power locally or PoH from compatible WyreStorm receiver (RX-70-4K v2)
- • HDBaseT supporting 4K video, audio, bidirectional IR/RS-232, power, Ethernet up to up to 70m/230ft or 1080p to 100m/328ft
- • Built-in IR receiver window for easy TV/Projector control



HDMI Over SDI Dual Output Transmitter/Receiver with Bidirectional IR (1080p: 50m/164ft)

TX-SDI-50 | RX-SDI-50

- Dual SDI outputs on the transmitter allow for two separate transmission zones
- SDI loop out on receiver
- Full 1080p, 3D and HD audio compatible
- Transmitter and receiver sold separately – together they can transmit 1080p up to 50m/164ft over coax
- Bidirectional IR, RS-232 and EDID management



Available Q2 2018



18Gbps HDMI over HDBaseT Receiver with ARC, Bidirectional IR, RS-232 and PoH (4K to 70m/230ft - 1080p to 100m/328ft)

RXV-70-4K

- Receives 18Gbps HDMI transmissions using HDBaseT up to 70m/230ft
- Compatible with the latest HDR-10 content and 4K/60 4:4:4
- Revised chipset increases compatibility with new UHD sources
- Supports video, audio, bidirectional IR/RS-232, power and Ethernet
- 2-way PoH for maximum flexibility during installation
- HDCP 2.2 compliant



Available Q2 2018



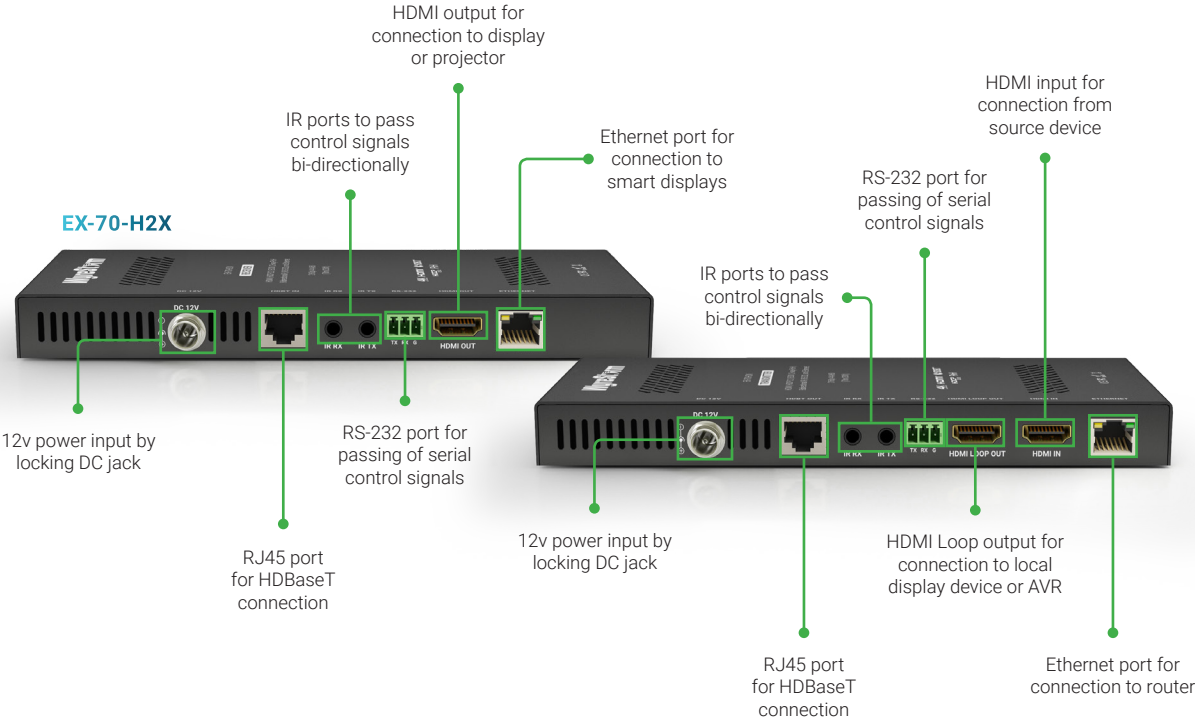
18Gbps HDMI over Multimode Fiber Receiver with HDCP 2.2 (4K: 300m/984ft)

RXF-300-H2

- Receives 18Gbps HDMI transmissions using multimode fiber up to 300m/984ft
- Compatible with the latest HDR-10 content and 4K/60 4:4:4
- HDCP 2.2 compliant
- Passes IR or RS-232 control signals bidirectionally
- Perfect for long distance transmission in environments with high-levels of EM or RF interference



Extenders



18Gbps Support

Fiber Revolution

Enhanced Audio with ARC

2160p
4:4:4 60



ARC

4K 60Hz with 4:4:4 chroma subsampling has been at the top of every AV integrator's wish list for a while without really anything available to support it. That's changed with the likes of Kaleidescape and Apple TV 4K offering full chroma, Xbox One X with high frame rate HDR gaming and full chroma output, and PC and laptop RGB at 4K 60Hz effectively the same as 4:4:4. High Frame Rate (HFR) HDR movies might not be 4:4:4, but they are 4:2:0 at 10 or 12-bit, which still requires more bandwidth than HDBaseT can handle.

WyreStorm's latest line of extenders feature variable compression technology that enable 4K/60 4:4:4 and HDR transmissions to fit snugly within 10Gig HDBaseT and multimode fiber bandwidths to ensure your content is delivered point-to-point in all its glory, whatever the distance.

With optical cable technology cheaper than ever and module termination far quicker and easier than it used to be, fiber has become a far more realistic install option.

Full distance transmission is guaranteed without needing to consider electrical or radio interference from external factors beyond the integrator's control. Furthermore, as video bandwidth continues to increase, the potentially enormous bandwidth of fiber means it will be the only method of distributing 120Hz or 8K content over any distance.

WyreStorm products featuring fiber currently include a multimode fiber transmission card for the modular H2XC matrix switcher and receiver, extender set supporting transmissions up to 300m/984ft, and our line of Active Optical HDMI cables spanning 10m, 15m, 20m and 30m distances.

As the product numbers suggest, both EX-35-H2-ARC and EX-70-H2X-ARC extenders add Audio Return Channel functionality to their respective HDBaseT specifications to enable digital audio from a Smart TV to be sent back to the transmitter and broken out to an AVR or audio system.

Even older, not-so-smart, TVs without true ARC functionality can get in on the action with audio de-embed functionality allowing audio to be sent back via its TOSLINK S/PDIF and analog inputs to allow even more to be done with your TV audio.

2K	4K UHD	4:4:4/60
40m	-	-



HDMI over UTP Extender with Bidirectional IR (1080p: 40m/131ft)

EX-40-G2

- Transmits 1080p content over UTP to 40m/131ft
- Bidirectional IR and RS-232 control with EDID management
- Ideal for short point-to-point applications
- Low profile 17mm chassis
- EX-40-G2 improves IR compatibility compared previous EX-40 model

HDMI HDCP

2K	4K UHD	4:4:4/60
70m	35m	35m

2160p
4:4:4 60



4K HDR HDBaseT Extender Set 2-Way PoH and Control (4K: 35m/115ft | 1080p: 70m/230ft)

EX-35-H2 (Version 2 available Q2 2018)

- Transmits 4K/60 4:4:4 or HDR at 60Hz up to 35m/115ft and 1080p content up to 70m/230ft
- 2-way PoH for maximum installation flexibility and convenience
- Bidirectional IR and RS-232
- HDCP 2.2 compliant

4K HDR CHDBT HDMI HDCP 2.2 PoH

2K	4K UHD	4:4:4/60
100m	70m	-



4K HDR HDBaseT Extender with 2-Way PoH and Bidirectional Control (4K: 70m/230ft | 1080p: 100m/328ft)

EX-70-H2

- Transmits 4K/60 4:2:0 or HDR at 24Hz up to 70m/230ft and 1080p content up to 100m/328ft
- 2-way PoH for maximum flexibility during installation
- Bidirectional IR and RS-232
- HDCP 2.2 compliant

4K HDR CHDBT HDMI HDCP 2.2 PoH

2K	4K UHD	4:4:4/60
70m	35m	-



HDBaseT Extender with Bidirectional IR and 2-Way PoH (1080p: 70m/230ft)

EX-70-G2

- Transmits 1080p content to 70m/230ft over HDBaseT for upmost signal reliability
- 2-way PoH offers greater installation options and convenience
- CEC and Bidirectional IR pass-through

CHDBT HDMI HDCP PoH

2K	4K UHD	4:4:4/60
70m	35m	35m

Available Q2 2018

2160p
4:4:4 60



4K HDR HDBaseT Extender with 2-Way PoH and ARC (4K: 35m/115ft | 1080p: 70m/230ft)

EX-35-H2-ARC

- Transmits 4K/60 4:4:4 or HDR at 60Hz up to 35m/115ft and 1080p content up to 70m/230ft
- S/PDIF input on receiver allows for audio from TVs without ARC to be sent to the transmitter
- 2-way PoH for maximum flexibility during installation
- Bidirectional IR and RS-232
- HDCP 2.2 compliant

4K HDR CHDBT HDMI HDCP 2.2 PoH ARC

2K	4K UHD	4:4:4/60
100m	70m	70m

2160p
4:4:4 60



4K HDR HDBaseT Extender with Ethernet and HDMI Loop Out (4K: 70m/230ft | 1080p: 100m/328ft)

EX-70-H2X (Version 2 available Q2 2018)

- Revised chipset increases compatibility with new 4K UHD sources
- HDBaseT extends 4K/60 4:4:4 or HDR at 60Hz up to 70m/230ft
- Transmission supports video, multichannel audio, bidirectional IR/RS-232, 2-Way power and Ethernet
- HDMI Loop Out cascades transmissions up to 3x times to create larger installs
- EDID adjustment, long cable mode, link meter

4K HDR CHDBT HDMI HDCP 2.2 PoH

2K	4K UHD	4:4:4/60
100m	70m	-



4K HDR HDBaseT Extender Featuring ARC or Optical Audio Return (4K: 70m/230ft | 1080p: 100m/328ft)
EX-70-H2X-ARC

- Revised chipset increases compatibility with new 4K UHD sources
- Supports video, audio, bidirectional IR/RS-232, power and Ethernet
- Transmits 4K UHD @60Hz 4:2:0 or HDR @24Hz to 70m/230ft and 1080p content up to 100m/328ft
- TOSLINK input on receiver allows for audio from TVs without ARC support to send audio to the transmitter
- S/PDIF audio breakout on receiver
- HDCP 2.2 compliant

4K HDR

4K UHD


HDMI

HDCP 2.2

PoH

ARC

2K	4K UHD	4:4:4/60
150m	100m	-



HDBaseT 2.0 Extender with Dual Network, Dual USB, 2-Way S/PDIF, Bidirectional IR/RS-232, Audio Embed (4K: 100m/328ft | 1080p: 150m/492ft)
EX-100-4K-PRO

- HDBaseT 2.0 transmission extends video, HD audio, bidirectional control, 2-way power and Ethernet over a single Cat6 cable up to 150m/492ft
- 4K/60Hz 4:2:0 24bit up to 100m/328ft or 1080p 60Hz 48bit to 150m/492ft
- Dual 10/100 Ethernet ports on both the TX & RX for connection of up to 3 devices plus LAN per extender pair
- Dual USB 2.0 pass-through with full data transfer, KVM functionality with single host and dual device ports
- 2-way PoH
- Bi-directional S/PDIF to both units to send/receives digital audio signals at either end

4K HDR

4K UHD

HDMI

HDCP 2.2

PoH



In-Wall 4K HDMI/VGA Auto Switching HDBaseT Extender Kit with Ethernet and PoH (4K HDMI: 70m/230ft | 1200p VGA: 100m/238ft)
TX-SW-IW-0201-KIT

- HDMI/VGA auto-switching HDBaseT 2-Gang Decora wall plate transmitter and 70m PoH receiver kit
- HDBaseT supporting video, audio, bidirectional IR/RS-232, power, Ethernet
- Extends 4K video HDMI to 70m/230ft and 1200p VGA to 100m/328ft
- Built-in IR receiver window for easy TV/Projector control
- HDCP 2.2 compliant

4K UHD

4K UHD

HDMI

HDCP 2.2



In-Wall 4K HDMI over HDBaseT Extender Kit with PoH (4K: 70m/230ft | 1200p: 100m/328ft)
TX-IW-70-POH-KIT

- HDMI over HDBaseT 2-Gang Decora wall plate transmitter and 70m PoH reciever kit
- HDBaseT transmits up to 4K: 70m/230ft | 1200p: 100m/328ft
- Supports HDMI video, audio, bidirectional IR/RS-232, power and Ethernet
- Built-in IR receiver window for easy TV/Projector control
- HDCP 2.2 compliant

4K UHD

4K UHD

HDMI

HDCP 2.2

2K	4K UHD	4:4:4/60
150m	100m	100m

Available Q2 2018



18Gbps HDBaseT 2.0 5Play Extender with DSC and Quad USB2.0 (4K: 100m/328ft | 1080p: 150m/492ft)
EX-100-H2-PRO

- Most advanced HDBaseT 2.0 chipset technology extends 4K/60 4:4:4 and HDR up to 100m/328ft and 1080p content up to 150m/492ft
- VESA approved DSC technology applies visually lossless compression when required
- Extend video and HD audio, bidirectional control, 2-way power, Ethernet and USB over a single Cat6 cable up to 150m/492ft using Cat6
- 4x USB 2.0 throughput with both TX and RX able to act as host or device
- Bidirectional audio lane separate to TMDS

4K HDR

4K UHD

HDMI

HDCP 2.2

PoH

2K	4K UHD	4:4:4/60
300m	300m	300m

Available Q2 2018



18Gbps HDMI over Multimode Fiber Extender with HDCP 2.2 (4K: 300m/984ft)
EXF-300-H2

- Extends 18Gbps HDMI transmissions using multimode fiber up to 300m/984ft
- Compatible with the latest HDR-10 content and 4K/60 4:4:4
- HDCP 2.2 compliant
- Passes IR or RS-232 control signals bidirectionally
- Ideal for long distance transmission in environments with high-levels of EM or RF interference

4K HDR

HDMI

HDCP 2.2



HDMI Over SDI Dual Transmitter with Bidirectional IR and RS-232 (1080p: 50m/164ft)
TX-SDI-50

- Dual SDI outputs on the transmitter allow for two separate transmission zones
- Bidirectional IR, RS-232 and EDID management
- Transmitter and receiver sold separately – together they can transmit 1080p up to 50m/164ft over coax

HDMI



HDMI Over SDI Dual Receiver with Bidirectional IR and RS-232 (1080p: 50m/164ft)
RX-SDI-50

- SDI loop out means an SDI signal can be cascaded up to 7 times to create larger installs – perfect for existing coax applications
- Bidirectional IR, RS-232 and EDID management
- Manual DIP Setting
- Transmitter and receiver sold separately – together they can transmit 1080p up to 50m/164ft over coax

HDMI

2K	4K UHD	4:4:4/60
70m	-	-



HDBaseT Extender with Integrated 2.1 Audio Amplifier Kit (1080p: 70m/230ft)
EX-1UTP-IR-70-AMP

- HDMI over HDBaseT transmitter and repeating receiver kit with audio amplifier capable of transmitting 1080p up to 70m/230ft
- Features a 2x 25w Class D amplifier for amplification of local speakers and sub-woofer pre-out at the display
- Also allows for ARC and local audio inputs (at the display)
- Transmissions can be daisy-chained up to 7x times using additional AMP-001-010 repeating receivers for large venue installations using just one cascaded single cable output


4K UHD

HDMI

HDCP 2.2

ARC

2K	4K UHD	4:4:4/60
100m	70m	-



4K HDMI/VGA Auto-Switching HDBaseT Extender with Ethernet and 2-way PoH (4K: 70m/230ft | 1080p: 100m/328ft)
EX-SW-0201-4K

- HDMI/VGA auto-switch transmitter with 4K HDMI input support
- HDBaseT device supporting video, audio, bidirectional IR and RS-232 control, PoH power, Ethernet
- 2-way PoH enables either end to be powered, removing the need for PSU at the other end

4K UHD

4K UHD

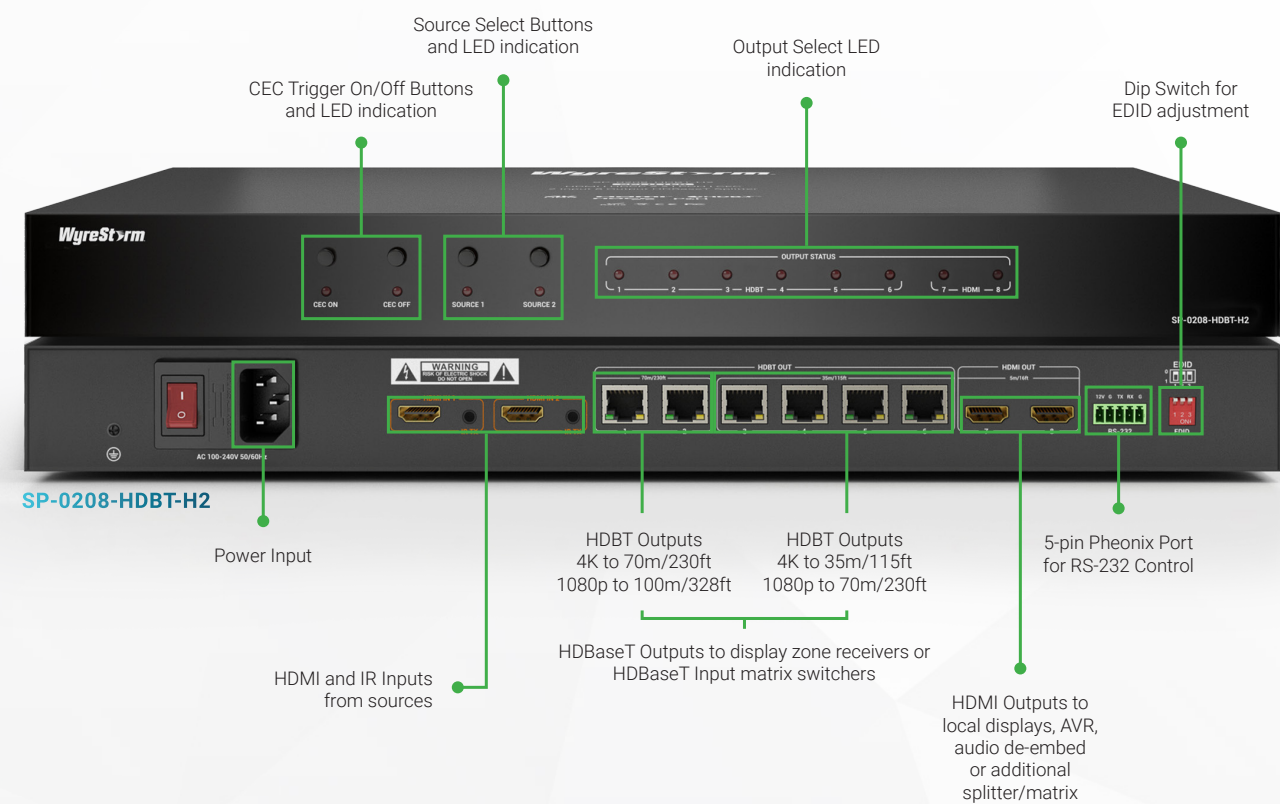
HDMI

HDCP 2.2

PoH



Splitters



SPLIT THE DIFFERENCE

Multiply your multi-screen and signage options with the new WyreStorm 2x8 4K UHD splitter featuring mixed HDBaseT and HDMI transmission.

Introducing the SP-0208-HDBT-H2, our latest 4K UltraHD splitter that's tailor-made for multi-screen and signage applications in hospitality and retail environments.

Featuring a choice of three transmission options, the dual HDMI inputs on the SP-0208 can be auto or manually switched to any of its eight outputs - including both HDBaseT and HDMI.

What that gives you is the option of distributing 4K to 35m/115ft or 1080p to 70m/230ft using Class B HDBaseT, or for longer distances, 4K to 70m and 1080p to 100m/328ft with Class A HDBaseT. Or for local connection, use the two HDMI outputs to feed additional screens or cascade to another splitter/matrix for Pro AV install options that are as powerful as they are flexible.

HDCP 2.2 compatible and supporting 4K 60Hz 4:2:0 and 4K 24Hz with 10-bit HDR, the SP-0208 includes manual EDID adjustment, PoH remote power to receivers and Active CEC control to power on/off compatible screens at the touch of a button.

Whether used as a standalone splitter solution or as part of a wider WyreStorm ecosystem, with a product this versatile, how you use the SP-0208-HDBT-H2 is completely up to you and your project.



INPUT	OUTPUT
1	2

2160p
4:4:4 60



- 1:2 4K HDR HDMI Splitter**
SP-0102-H2
- Easy plug and play splitting of a single HDMI or DVI source to up to 2x displays
 - Supports 4K/60 4:4:4, HDCP 2.2 and HD audio formats
 - Threaded DC power plug, LED power and I/O status indication and EDID adjustment
 - Low profile 18mm chassis, with mounting brackets for flexible placement



INPUT	OUTPUT
1	4

2160p
4:4:4 60



- 1:4 4K HDR HDMI Splitter**
SP-0104-H2
- Easy plug and play splitting of a single HDMI or DVI source to up to 4x displays
 - Supports 4K/60 4:4:4, HDCP 2.2 and HD audio formats
 - Threaded DC power plug, LED power and I/O status indication and EDID adjustment
 - Low profile 18mm chassis, with mounting brackets for flexible placement



INPUT	OUTPUT
1	8

2160p
4:4:4 60



- 1:8 4K HDR HDMI Splitter**
SP-0108-H2
- Easy plug and play splitting of a single HDMI or DVI source to up to 8x displays
 - Supports 4K/60 4:4:4, HDCP 2.2 and HD audio formats
 - Threaded DC power plug, LED power and I/O status indication and EDID adjustment
 - Low profile 18mm chassis, with mounting brackets for flexible placement



INPUT	OUTPUT
2	2+4+2



- 2:8 4K HDR Splitter Featuring 6x HDBaseT Outputs**
SP-0208-HDBT-H2
- Dual HDMI input 4K HDR splitter with automatic or manual switching
 - 2x and 4x HDBaseT outputs to accommodate various transmission distances within an installation
 - Capable of transmitting 4K UHD content over both 35m/115ft or 70m/230ft
 - 2x HDMI outputs can be used to cascade to another splitter or feed local screens
 - Active CEC enables all compatible screens to be powered on/off
 - Compatible with latest HDCP 2.2 content and 4K/60 4:2:0
 - PoH enables all HDBaseT receivers to be powered from the unit
 - Independent IR control of both sources from HDBaseT zones
 - Control via front panel or RS-232 using the WyreStorm Enado™ control solution or TS-280 Touchscreen (arriving Q2 2018)
 - EDID settings enable manual adjustment of source content



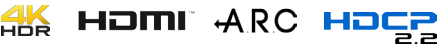
Cables and Convertors



- 18Gbp/s Over Active Optical HDMI Cable**
CAB-HAOC-10 | CAB-HAOC-15 | CAB-HAOC-20 | CAB-HAOC-30
- Uncompressed optical transmission of 18Gbps HDMI content to 10m/33ft
 - Supports full bandwidth 2160p 60Hz at 4:4:4 8-bit
 - Compatible with latest UHD HDR content at 4:2:0 60Hz 12-bit, including HDR-10 and Dolby Vision
 - Perfect for use in environments with excessive EM or RF interference
 - High quality aluminum construction with low-profile 20mm/0.79" head
 - ARC and CEC enabled for true native HDMI communication
 - Supports HDCP 2.2 content encryption

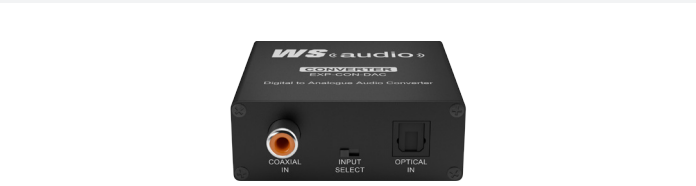


- WyreStorm Express High Speed HDMI Cable**
EXP-HDMI-0.5M | 1.0M | 2.0M | 3.0M | 5.0M | 10.0M | 15.0M
- High bandwidth, high speed 4K UHD and HD compatible
 - Available in 0.5m/1.6ft, 1m/3.2ft, 3m/9.8ft, 5m/16.4ft, 10m/32ft, 15m/49ft cable lengths
 - High quality, premium grade cable
 - HDMI v1.4 certified
 - Gold plated connections and 99.999% oxygen free copper cable/conductors (OFC) enhances conductivity
 - Durable, cable sleeve to prevent twisting and snagging
 - HDMI Male/Male Type A connectors



- IR Link Cable for Control System Integration**
CAB-IR-LINK
- The missing link needed for seamless integration of a control system and display devices
 - Easily connects to any mainstream control system to easily integrate TVs and projectors and achieve proper display control
 - Auto-sensing feature for polarity and voltage recognizes different control systems for easy integration

Please contact your authorized WyreStorm representative or marketing@wyrestorm.com for product comparison tables.



- Digital to Analog Audio Converter with Coax/Optical Inputs**
EXP-CON-DAC
- Simple connection of modern digital sources to legacy analog systems
 - Toslink Optical and S/PDIF Coaxial inputs with selectable switch
 - Compact housing, 5v power with LED indication



- Digital to Analog Audio Converter featuring Dolby Downmix with Coax/Optical Inputs**
EXP-CON-DAC-D
- Converts 5.1 Dolby Digital multichannel audio to analog stereo
 - Simple connection of modern digital sources to legacy analog systems
 - Toslink Optical and S/PDIF Coaxial inputs with selectable switch
 - Compact housing, 5v power with LED indication



- 4K Downscaler and HD Upscaler with Dolby Digital Downmixing**
EXP-CON-4K-DD
- Inline solution for installations including both 4K UHD and HD displays while maintaining integrity of both
 - Scales 1080p/60 to 4K/30 and scales back 4K UHD transmissions to 1080p/24
 - Dolby Digital downmixing for conversion of 5.1ch to stereo PCM audio wherever required
 - Switchable selection, including pass-through mode on compact chassis with LED power indication



NEXT GENERATION CONTENT NEEDS NEXT GENERATION CONTENT DELIVERY

Experience the latest 4K UHD with HDR content in all its uncompressed 18Gbps glory with WyreStorm 10m, 15m, 20m and 30m HDMI cables using the latest active optical transmission technology.

Supporting video 4K/60 4:4:4 8-bit and HDR 12-bit at 4:2:2 with HDCP 2.2 for compatibility with the latest 4K UHD content, CAB-HAOC cables handle multichannel audio up to DTS:X and Dolby Atmos. What's more, when it comes to aiding control of devices, they also keep things effortlessly simple with support for both ARC and CEC.

Perfect for point to point use or as part of a WyreStorm 4K UHD matrix switcher system where mirrored HDMI outputs can be used to their full potential, these cables are an ideal solution for any environment where copper transmission may be susceptible to electromagnetic or radio frequency interference.

With install experience as important as transmission quality, our CAB-HAOC cables come ready-spooled with 20mm heads easily fed through conduits and color coded/labelled connections improving ease of install, cable management and adding that personal touch to your installation.

The perfect accessory to any WyreStorm 4K UHD distribution and an absolute must for today's AV projects requiring rock-solid delivery of the latest content over full bandwidth 18Gbps HDMI.



2160p
4:4:4 60

AV Essentials Made Easy

Available for sale in-store and online, WyreStorm Express has been developed as a simple and affordable line of plug-and-play HDMI distribution products for 4K and HD connectivity in the home.

With a range spanning extenders, switchers, splitters, converters and cables, WyreStorm Express products are ideal for integrating satellite or cable boxes and the latest gaming consoles with consumer display devices.



INPUT	OUTPUT
1	2



1:2 4K HDMI Splitter

EXP-SP-0102-4K

- Supports up to 4K/30Hz 4:2:2 and 1080p/60Hz with HD audio and full 3D support
- Low profile 18mm housing
- HDCP compliant
- Threaded DC power plug, LED power and I/O status indication



INPUT	OUTPUT
1	4



1:4 4K HDMI Splitter

EXP-SP-0104-4K

- Supports up to 4K/30Hz 4:2:2 and 1080p/60Hz with HD audio and full 3D
- Low profile 18mm housing
- HDCP compliant
- Threaded DC power plug, LED power and I/O status indication



2K	4K UHD	4:4:4/60
50m	25m	-



4K HDMI over HDBaseT Extender with Bidirectional IR control

EXP-EX-HDBT-50

- HDBaseT extension of 4K content to 25m/82ft and 1080p/60Hz to 50m/164ft
- Supports multichannel audio up to DolbyHD, 36bit Deep Color and resolutions up to VESA 1920x1200
- Bidirectional IR control and EDID management
- Perfect for short point-to-point applications featuring 4K UHD and/or HD



2K	4K UHD	4:4:4/60
50m	-	-



HDMI over Coax Extender

EXP-EX-COAX-50

- Transmits 1080p content to 50m/164ft using single coax cable
- Bidirectional IR control or source and display
- EDID and cable distance management encourage device compatibility
- Enhanced ESD protection and signal equalization reduces interference and increases reliability



Digital to Analog Audio Converter with Coax/Optical Inputs

EXP-CON-DAC

- Simple connection of modern digital sources to legacy analog systems
- Toslink Optical and S/PDIF Coaxial inputs with selectable switch
- Compact housing, 5v power with LED indication



Digital to Analog Audio Converter featuring Dolby Downmix with Coax/Optical Inputs

EXP-CON-DAC-D

- Converts 5.1 Dolby Digital multichannel audio to analog stereo
- Simple connection of modern digital sources to legacy analog systems
- Toslink Optical and S/PDIF Coaxial inputs with selectable switch
- Compact housing, 5v power with LED indication



4K Downscaler and HD Upscaler with Dolby Digital Downmixing

EXP-CON-4K-DD

- Inline solution for installations including both 4K UHD and HD displays while maintaining integrity of both
- Scales 1080p/60 to 4K/30 and scales back 4K UHD transmissions to 1080p/24
- Dolby Digital downmixing for conversion of 5.1ch to stereo PCM audio wherever required
- Switchable selection, including pass-through mode on compact chassis with LED power indication



INPUT	OUTPUT
3	1



3x1 HDMI Switcher with Remote Control

EXP-SW-0301

- Switches 3x HDMI/DVI sources to a single HDMI/DVI display device
- Supports 4K at 60Hz with HDCP 2.2 and multichannel audio
- Simple plug and play – no set up, driver or software required
- Automatically negotiated EDID between devices
- Passive operation - no PSU required
- Front panel and remote handset operation



INPUT	OUTPUT
5	1



5x1 HDMI Switcher with Remote Control

EXP-SW-0501

- Switches 5 HDMI/DVI sources to a single HDMI/DVI display device
- Supports 4K at 60Hz with HDCP 2.2 and multichannel audio
- Simple plug and play – no set up, driver or software required
- Automatically negotiated EDID between devices
- Passive operation - no PSU required
- Front panel and remote handset operation



INPUT	OUTPUT
4	2



4x2 HDMI Matrix Switcher with Remote Control

EXP-MX0402-010

- Simultaneous connect and switch up to 4x HDMI/DVI sources to 2x HDMI/DVI outputs
- 4K at 30Hz source support with HD multichannel audio
- Compact, plug and play switching ideal for small-scale residential or commercial AV set-ups
- Simple selection via remote handset and front panel with LED status indication





Because the Technology Matters

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