



*Because the Technology Matters™*



# 2019

## Product Guide



AV Signal Distribution and Control Solutions

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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.



# 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.



## 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.



## Modular Product Architecture for Ultimate Install Options

Out-of-box doesn't fit all applications - build to your specification. The modular architecture of our 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.



## Six 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™, fiber, H.264, JPEG 2000, and SDVoE™. And with more technologies always 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.



# Our Technologies

## HDMI™



- Still the best method of distributing and switching uncompressed HDMI 2.0 18Gb 4K/60 4:4:4, but limited to small footprint installations up to 30m/98ft
- High quality uncompressed AV signal transmission
- Self-contained plug and play AV solution, but with limited ability to scale up inputs and outputs
- Use WyreStorm Hybrid Active Optical HDMI cables to overcome distance limitations and to pass CEC control signals from the matrix

### SUITABLE APPLICATIONS



## HDBT™



- Easiest way to distribute high bandwidth uncompressed 4K HDR content over distance within medium-to-large footprint installations
- Ideal for centralized distribution & 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



## FIBER



- The future of content delivery - optical cable distributes high bandwidth 4K content over huge distances point-to-point or as part of a larger HDMI, HDBaseT or AVoIP distribution
- Uses variable compression to support transmission of 18Gbps HDMI content for 4K/60 4:4:4 and HDR up to 300m/984ft
- Compatible with High Frame Rate HDR at 60Hz available on the latest UHD Blu-ray discs or games consoles
- Developments in cable/module technology means fiber is cheaper and easier to terminate than ever
- Immune to EM and RF interference, for a superior delivery compared to copper in electronically "noisy" environments, such as industrial or retail environments.
- OM3 multimode fiber transmission included on WyreStorm H2XC Series modular matrix switcher, RXF-300-4K receiver and EXF-300-H2 extender

### SUITABLE APPLICATIONS







## Three AV over IP Technologies. Infinite Applications.



100/200 Series

400 Series

600 Series

### 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 seamless switching, video wall processing up to 10x10, multi-window or PiP on a single screen 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**

#### SUITABLE APPLICATIONS



HOSPITALITY CORPORATE RETAIL VENUES

### SDVoE

- Pinnacle of AV distribution offering fully lossless 4K/60 4:4:4 and HDR over 10GbE Network with Genlock and 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 scaling, multi-channel audio up to DTS:X and Dolby Atmos, PCM audio downmix, embedding/de-embedding with DAC/ADC
- Broadcast quality, multi-view and video wall up to 8x8 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

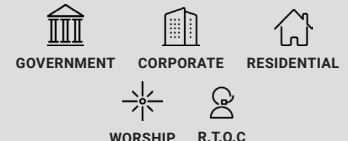


HOSPITALITY EDUCATION RESIDENTIAL CORPORATE  
RETAIL VENUES WORSHIP EVENTS

### JPEG 2000

- 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 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

#### SUITABLE APPLICATIONS



GOVERNMENT CORPORATE RESIDENTIAL  
WORSHIP R.T.O.C

# AV Control



## WEB-BASED INGENUITY. BYOD FRIENDLY. UPDATES AUTOMATICALLY. UNRESTRICTED SIMPLICITY.

As flexible as it is intuitive, the WyreStorm Enado™ web-based 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 for you to install, Enado does it automatically, offering 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.

And when it comes to control, Enado features extensive I/O to control devices through multiple IR, RS-232, IP, sensing inputs and relay outputs for instantaneous, intuitive control from a smartphone, tablet, TV, PC or mac browser. Simple QR code scanning allows users to connect their control device themselves as well as offering one-touch activation of in-room devices, such as lighting, blinds, curtains, projector and screen and other connected devices to get set up in seconds.

### Enado v5 Unleashed

Enado v5 is the latest and greatest version of Enado yet. Boasting a host of user-focused improvements, such as 50% faster loading times, button press feedback, timed commands and NetworkHD preview stream support, as well as powerful new industry-focused features, including the creation of floor plan layouts to control large-scale deployments and direct Amazon Alexa™ integration to make your devices work for you.



# Multi-Platform AV Control Solution

WyreStorm Enado™ redefines the integrators' ability to control AV and in-room devices by combining powerful hardware and intuitive, cross-platform software to create an end-to-end AV distribution and control system that is always accessible and up to date. Now including Enado v5 software - the latest and greatest version of Enado yet!



**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
- Including new Enado™ v5 software, featuring 50% faster loading, button press feedback, NHD video preview, floor plan layouts, direct Amazon Alexa integration and much more.

**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™
- Including new Enado™ v5 software, featuring 50% faster loading, button press feedback, NHD video preview, floor plan layouts, direct Amazon Alexa 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.



**NETWORK HD**

**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 simple 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.

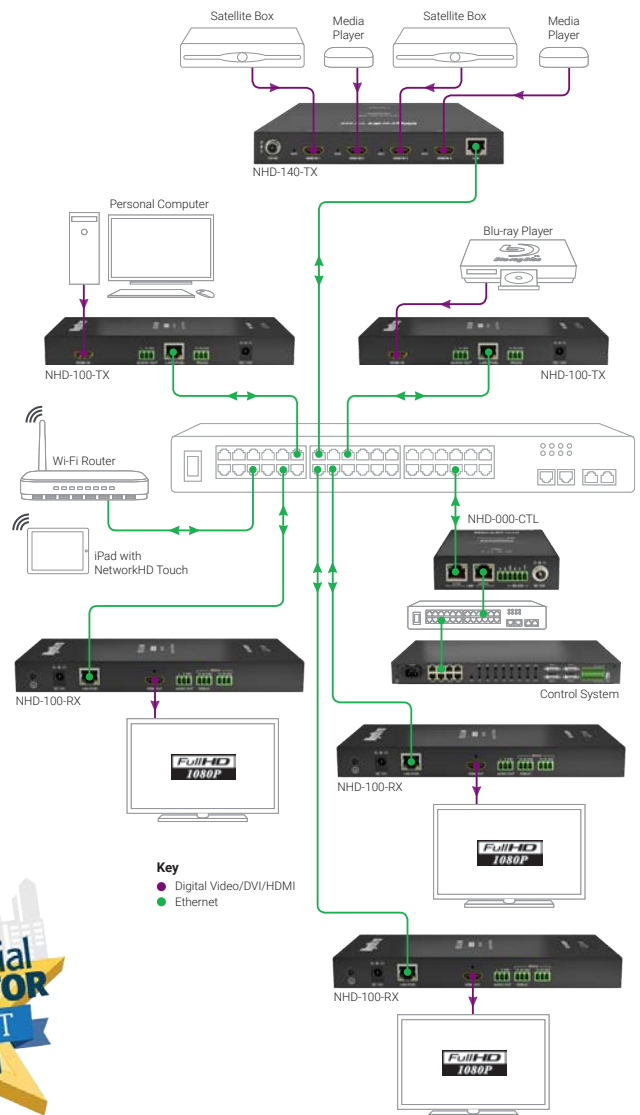
### FEATURES

- 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



HOSPITALITY RETAIL VENUES



**Key**  
 ● Digital Video/DVI/HDMI  
 ● Ethernet

NHD-100-TX

NHD-100-RX



WyreStorm written drivers available for major control systems:



Compatible with Domotz Remote Network Monitoring and Management Software

Please contact your authorized WyreStorm representative or [marketing@wyrestorm.com](mailto: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 30Mb/s and below
- Plug-and-Play setup with auto discovery of components
- Supports NetworkHD Touch™ iPad control app, WyreStorm Enado™ and major control systems

HDMI™ HDCP PoE



### 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 and CEC commands for connected display
- High or low latency modes (250ms - 60ms)
- Stereo audio breakout
- Supports NetworkHD Touch™ iPad control app, WyreStorm Enado™ and major control systems

HDMI™ HDCP PoE

### ONE PER SYSTEM



### Controller for NetworkHD™ Systems

#### NHD-000-CTL

- Provides automatic discovery of NetworkHD 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 Ethernet ports for complete isolation of control and AV network traffic
- Optional PoE power

PoE

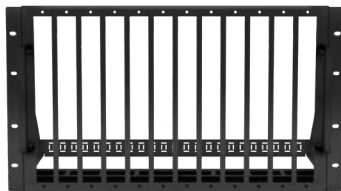


### NetworkHD™ 100 Series AV over IP H.264 Quad Encoder

#### NHD-140-TX

- 4-input AV over IP encoder provides class-leading component density for very large commercial deployments
- Combines 4x separate H.264 streams to one Ethernet output at 120Mb/s and below, with 1920x1200 60ps and interlaced format support
- Each stream is compatible with any NetworkHD 100 or 200 Series decoder for matrix, video wall or multiview applications
- Supports NetworkHD Touch™ iPad control app, WyreStorm Enado™ control and other leading control systems

HDMI™ HDCP



### 6U/12 Slot Rack Mount for NetworkHD™ 100/200/400 Series

#### NHD-000-RACK4

- Supports NetworkHD 100, 200 and 400 Series, NHD-000-CTL Controller and Enado Mini components
- Shallow depth design allows for high component density in an AV or IT equipment rack
- All-steel design offers solid, secure and professional environment for installed NetworkHD components
- Removable rear cable management lacing bar facilitates correct cabling to optimize thermal efficiency
- Detachable front-facing handles greatly improves rack maneuverability and convenience
- Provides optimal thermal dissipation in a passively or actively cooled rack design to maintain premium device performance and MTBF
- Systems can be pre-built into the rack kit prior to arriving on site to improve speed and efficiency of installation



# NetworkHD™ 200 Series



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

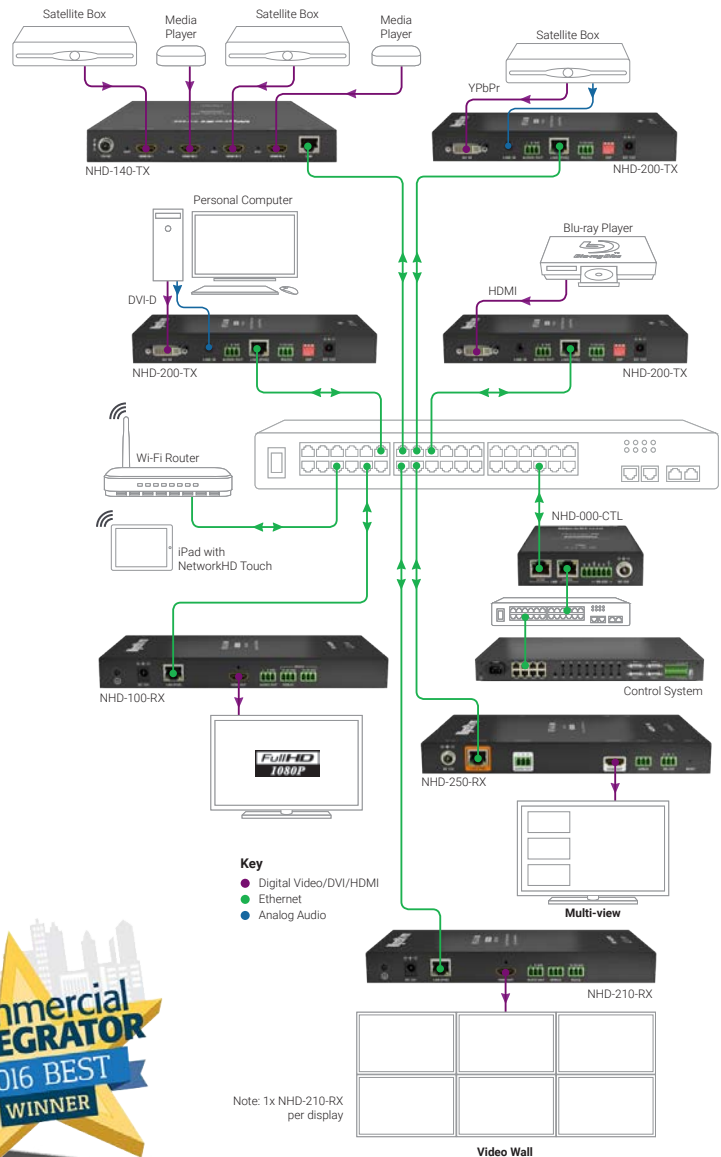
The NetworkHD™ 200 Series utilizes the same low bandwidth, infinitely scalable H.264 technology as the 100 Series, but adds powerful video wall support up to 10x10 and multi-format input connectivity of HDMI, DVI-D, Component and VGA for the best all-round solution for commercial AV installations.

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-250-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-250-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 commands for connected display
- Supports video previewing on a PC or third party device
- Standards-based H.264/MPEG-4 AVC video compression

## SUITABLE APPLICATIONS



NHD-200-TX

NHD-210-RX

WyreStorm written drivers available for major control systems:



Compatible with Domotz Remote Network Monitoring and Management Software

Please contact your authorized WyreStorm representative or [marketing@wyrestorm.com](mailto:marketing@wyrestorm.com) for product comparison tables.



### NetworkHD™ 200 Series AV Over IP H.264 Encoder

#### NHD-200-TX

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

HDCP PoE

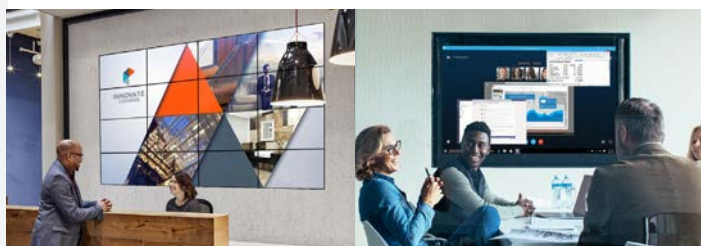


### NetworkHD™ AV over IP H.264 Multiview Processor

#### NHD-250-RX

- Powerful multiview processor for displaying multiple video sources on a single display
- Arbitrary window size, placement and layering with assignable audio
- 4K video upscaling can present HD sources in native resolutions
- Seamlessly integrates with NetworkHD 100 and 200 Series encoders
- NetworkHD Touch™ control app for live video previews with drag and drop source selection
- Utilizes bandwidth-efficient H.264 encoding for visually lossless HD video distribution
- Audio de-embed, CEC and RS-232 control of connected devices

HDMI HDCP PoE



### ONE PER SYSTEM



### Controller for NetworkHD™ Systems

#### NHD-000-CTL

PoE

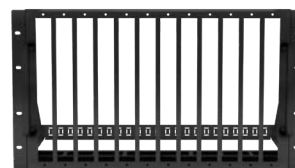


### NetworkHD™ 200 Series AV Over IP H.264 Decoder with Video Wall Processing

#### NHD-210-RX

- Multi-format HD over IP AV distribution solution utilizing H.264 compression
- Offers video wall functionality up to 10x10 screens and matrix switching
- Analog audio breakout
- 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

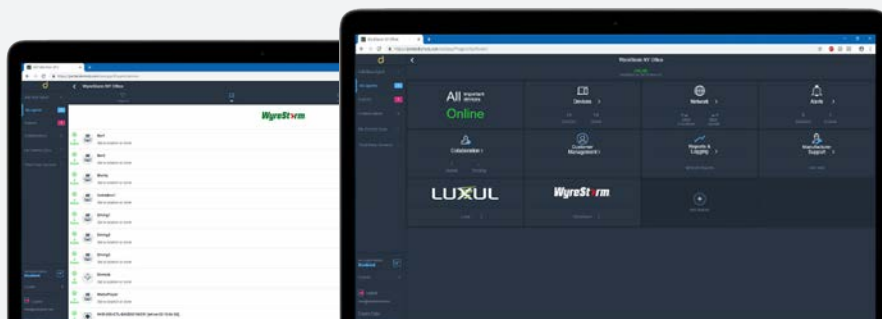
HDMI PoE HDCP



### 6U/12 Slot Rack Mount for NetworkHD™ 100/200/400 Series

#### NHD-000-RACK4

## Working With domotz



Using the powerful network analysis tools, the new WyreStorm Tile within the Domotz management platform allows immediate status updates and remote monitoring of the NetworkHD AV over IP product line. This will reduce truck rolls and increase profits through managed service agreements. The tile provides dealers with detailed information about WyreStorm products allowing a problem to either be resolved remotely or be properly prepared when arriving on site.

Furthermore, the ingenious notifications feature allows an Integrator to be immediately informed when an event occurs, useful for logging or fault-finding purposes. Domotz allows integrators to stay informed and prepared when unexpected events happen and offer the tools to remotely support any installation from anywhere in the world.

# NetworkHD™ 400 Series



Low latency 4K HDR over 1GbE with image scaling, multichannel audio and video wall processing using JPEG 2000 technology

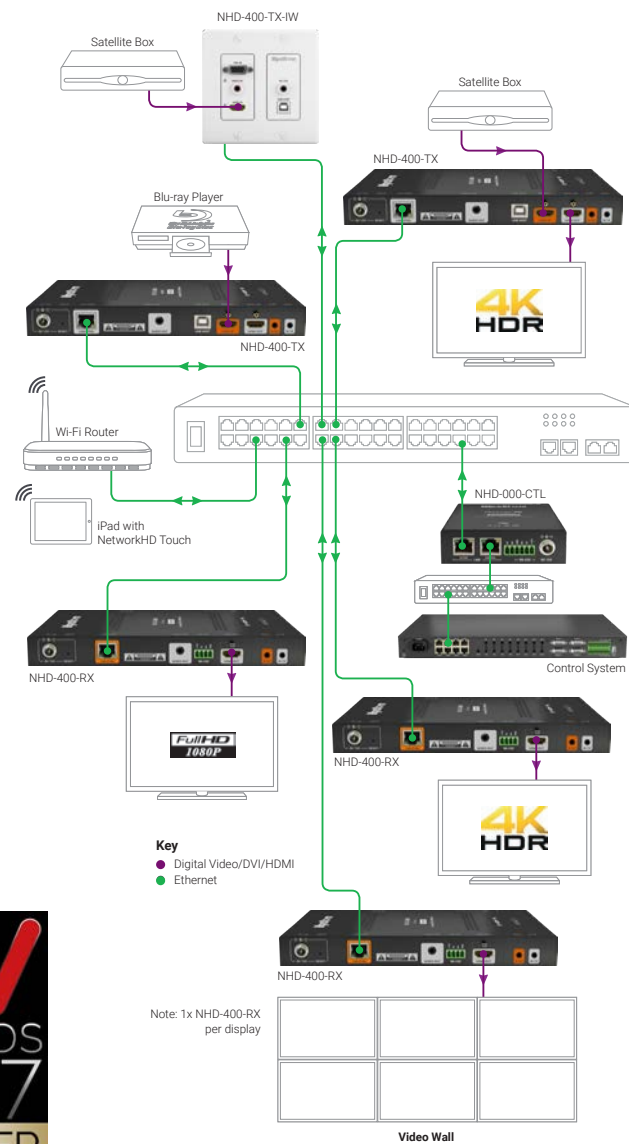
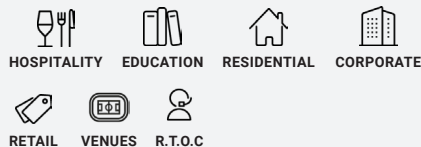
The NetworkHD™ 400 Series offers stunning 4K HDR video, multi-channel audio support and 4K/2K auto-scaling to seamlessly handle distribution of mixed resolution sources, content and display devices over a 1GbE network.

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 breakaway can route audio separately from video to any decoder
- Up to 16x16 video walls
- CEC display control, bidirectional IR or RS-232 control of connected devices

## SUITABLE APPLICATIONS



NHD-400-TX

NHD-400-RX

WyreStorm written drivers available for major control systems:



Compatible with Domotz Remote Network Monitoring and Management Software

Please contact your authorized WyreStorm representative or [marketing@wyrestorm.com](mailto:marketing@wyrestorm.com) for product comparison tables.





### NetworkHD™ 400 Series 4K AV over IP JPEG 2000 Encoder NHD-400-TX

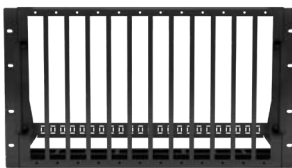
- Stunning visually lossless 4K UHD video with HDR and multi-channel audio up to DTS:X and Dolby Atmos
- Ultra-low latency of less than a single frame
- 4K/1080p image scaling for mixed resolution installs
- NetworkHD Touch™ iPad control app for live video previews and drag and drop source selection
- Powerful audio breakaway can route audio separately from video to any decoder
- Up to 16x16 video walls
- USB passthrough, CEC display control and bidirectional IR control of connected devices



### ONE PER SYSTEM



### Controller for NetworkHD™ Systems NHD-000-CTL



### 6U/12 Slot Rack Mount for NetworkHD™ 100/200/400 Series NHD-000-RACK4



### NetworkHD™ 400 Series 4K AV over IP JPEG 2000 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
- 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 breakaway can route audio separately from video to any decoder
- Up to 16x16 video walls
- USB passthrough, CEC display control, bidirectional IR and RS-232 control of connected devices



### NetworkHD™ 400 Series In-Wall 4K AV over IP JPEG 2000 Encoder NHD-400-TX-IW

- Stunning visually lossless 4K UHD video with HDR and multichannel audio support
- Ultra-low latency for both HDMI or VGA sources
- 4K/1080p image scaling for mixed resolution installs
- NetworkHD Touch™ iPad for live video previews and drag and drop source selection
- Powerful audio breakaway can route audio separately from video to any decoder
- Up to 16x16 video walls
- USB passthrough and RS-232 control of connected devices
- Bidirectional IR and analog audio output



# NetworkHD™ 600 Series



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

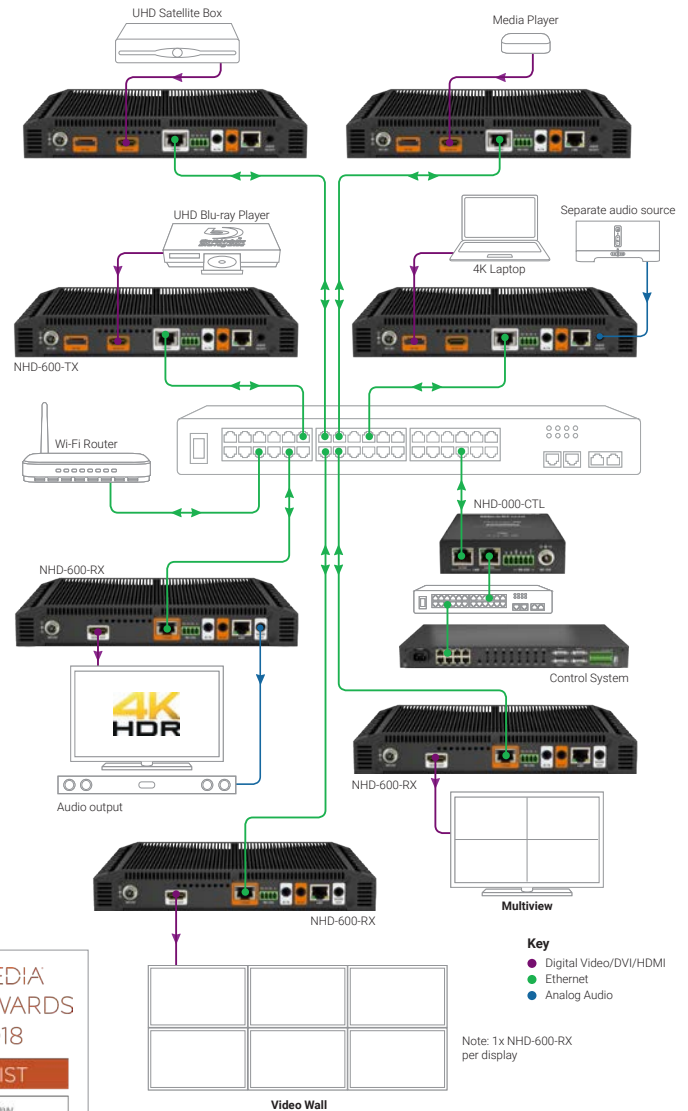
The NetworkHD™ 600 Series offers the ultimate AV over IP platform for when only the absolute best image quality will do.

Supporting highly scalable, secure and fully 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
- Discrete AV matrix switching with broadcast video scaling
- Secondary video stream with alternate scaling options can be used for Multiview source content using NHD-600-TX
- Multiview compositing includes arbitrary image placement, resizing, duplication and offset functions
- Video wall functionality up to 8x8 including display bezel compensation
- PCM audio downmix, embedding and de-embedding with DAC/ADC functions
- 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
- Fan-less chassis combines noiseless operation with optimal heat dissipation to maintain device performance and MTBF

## SUITABLE APPLICATIONS



NHD-600-TX

NHD-600-RX

WyreStorm written drivers available for major control systems:



Compatible with Domotz Remote Network Monitoring and Management Software

Please contact your authorized WyreStorm representative or [marketing@wyrestorm.com](mailto:marketing@wyrestorm.com) for product comparison tables.





### NetworkHD™ 600 Series 4K HDR Premium 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



### NetworkHD™ 600 Series 4K HDR Premium AV over IP SDVoE Decoder

#### NHD-600-RX

- Lossless AV decoding up to 4K/60 4:4:4 via 10GbE network using SDVoE
- Powerful, discrete AV matrix switching with video scaling
- HDMI output, PCM audio downmixing, embed/de-embed with DAC/ADC support
- Secondary video stream with alternate scaling options can be used for Multiview source content using NHD-600-TX
- Fully-featured Multiview image compositing includes arbitrary source window placement, resizing, image duplication and image offset functions
- Video wall functionality, including display bezel compensation



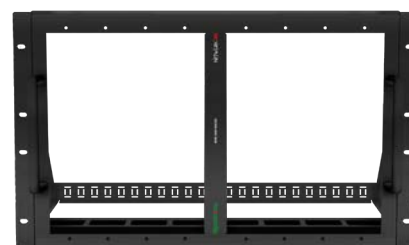
One per system



### 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



### 7U/8 Slot Rack Mount for NetworkHD™ 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
- 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



	100/200 Series	400 Series	600 Series
<b>Features</b>			
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	✗	✓	✓
Minimum Latency	250ms (High Quality Mode) 60ms (Low Latency Mode)	16ms 60fps	0ms (Genlock)
PoE	✓	✓	✗
Analog Audio Breakout	✓	✓	✓
Analog Audio Input	✓ (200 Series)	✗	✓
Analog 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	✗	✓	✓
USB Passthrough/Switching	✗	✓	✗
Maximum video wall size	10x10	16x16	8x8
Multiview	✓ (250-RX only)	✗	✓
Open Control API	✓	✓	✓
Network Type	1Gb Multicast	1Gb Multicast	10Gb Multicast
PC Software Suite	✓	✓	✓
Peak Bandwidth per Tx	30 Mb/s	850 Mb/s	10 Gb/s
Rack Mountable	Yes - NHD-000-RACK4	Yes - NHD-000-RACK4	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™, 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.

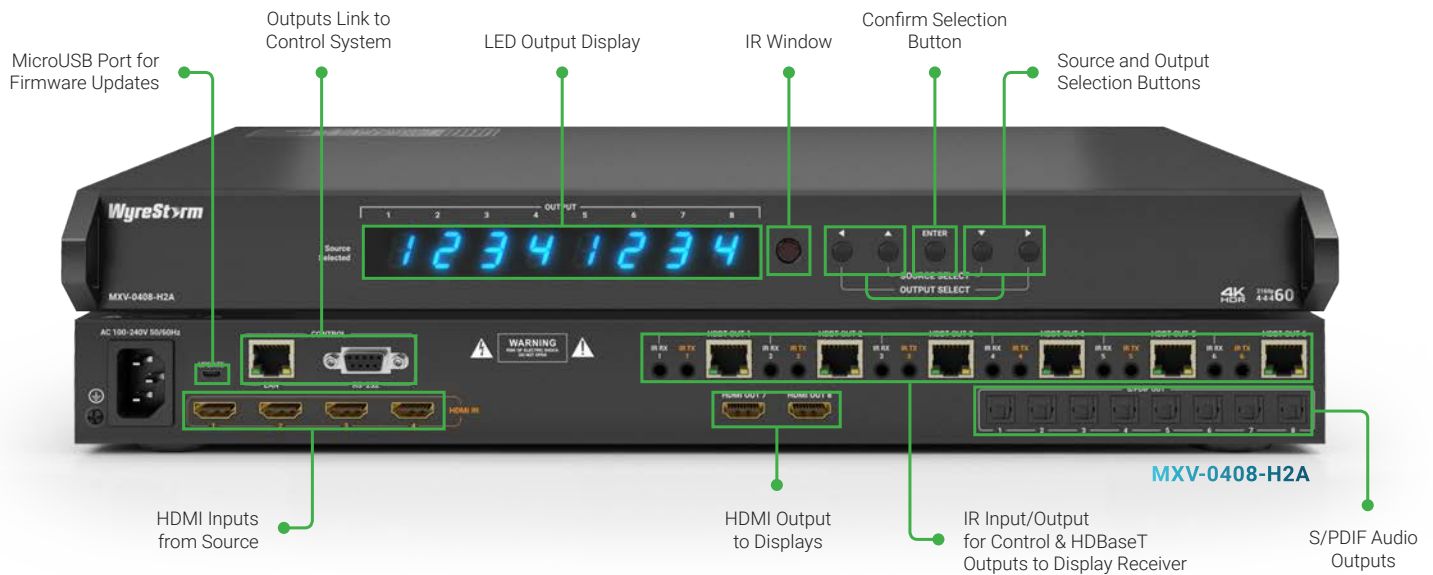
Including In-wall encoding, multiview scaling and video wall support, NetworkHD™ features full control with major third-party control systems, including WyreStorm Enado™ and our ground breaking free NetworkHD Touch™ app for iPad.

**NETWORKHD™ TOUCH**

**enado**

**proud domotz partner**

# 4K Matrix Switchers



**Fully Compliant**

**SmartEDID**

**Enhanced Audio Features**

**4K HDCP 2.2**



**ARC**

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.

HDR-10 has established itself as the industry standard thanks to it being an open standard; other options include HLG (Hybrid Log Gamma), typically seen in broadcasting and Dolby's own version of the technology: Dolby Vision. WyreStorm matrices and extenders are compatible with all forms of HDR.

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.

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

At such a time that a 2K screen wants to access a 4K source, the EDID being supplied to that source will be adjusted to force 2K output; when the 2K screen switches away from this source, normal 4K content will resume from the source.

Furthermore 2K screens can either be restricted from accessing 4K sources, keeping them locked to compatible 1080p content.

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

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](mailto:marketing@wyrestorm.com) for product comparison tables.



INPUT	OUTPUT
4	4

2160p  
4:4:4 60



#### 4x4 4K HDR HDMI Matrix with audio breakouts

##### MX-0404-H2

- 4x4 pure HDMI-to-HDMI 18Gbps matrix with support for 4K/60 4:4:4
- Supports latest HDR standards including HDR-10, HLG and Dolby Vision
- 4x Stereo RCA's for audio breakout of matrix output
- API Controlled A/V Mute function to cut signal to any output on demand
- CEC power triggering of connected screens, automatic based on signal presence or via API
- SmartEDID dynamically detects display/source capabilities to output the highest resolution available
- Control via IR, RS-232, LAN or WebUI

4K HDR HDMI HDCP 2.2

INPUT	OUTPUT
6	6

2160p  
4:4:4 60



#### 6x6 4K HDR HDMI Matrix with assignable audio breakouts

##### MX-0606-H2

- 6x6 pure HDMI-to-HDMI 18Gbps matrix with support for 4K/60 4:4:4
- Supports latest HDR standards including HDR-10, HLG and Dolby Vision
- Dual S/PDIF and stereo phoenix audio matrix outputs with mute
- API Controlled A/V Mute function to cut signal to any output on demand
- CEC power triggering of connected screens, automatic based on signal presence or via API
- SmartEDID dynamically detects display/source capabilities to output the highest resolution available
- 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



## NEXT GENERATION CONTENT NEEDS **NEXT GENERATION CONTENT DELIVERY**

Experience the latest 4K UHD with HDR content in all its uncompressed 18Gbps glory with WyreStorm HDMI cables using the latest active optical transmission technology.

2160p  
4:4:4 60 4K HDR HDMI ARC HDCP 2.2





# MXV SERIES: 4 OPTIONS FOR 4K HDR DISTRIBUTION OVER HDBASET

WyreStorm is proud to present a new range of matrix switchers specifically tailored to meet the increased demands of 4K content & HDR. Shared features of the 4 models crucially include the ability to handle both 2160p HDR and 8-bit content at 4:4:4, all within a 1U chassis feeding up to 8 independent zones. Available in 4 form-factors the MXV range also features mirrored HDMI outputs to feed up to an additional 4 screens and audio breakout for each HDBaseT zone.

With ease of installation at its heart, the powerful range of MXV matrices ensure just that, with plug & play setup and WyreStorm's lite-compression technology ensuring that the latest source content is supported. Familiar extended features like WyreStorm's SmartEDID function for dynamic EDID management and intuitive WebUI for setup & control are also present plus the ability to switch any zone to "A/V Mute" mode, cutting the signal to an output completely.



## VIDEO

- Support of 18Gbps content from source to zone, with both HDBaseT & HDMI ports working in parity
- HDBaseT transmission of 4K/60 4:4:4 up to 35m/98ft
- Supports 60Hz HDR-10 & HLG content and Dolby Vision at 30Hz over HDBaseT
- Mirrored HDMI outputs (4x4, 6x6 & 8x8) allow further slave screens to be connected via extenders or Hybrid HDMI cables



## AUDIO

- A choice of S/PDIF Toslink (4x8, 6x6 & 8x8 models) and mirrored analogue RCA & S/PDIF audio outputs
- Audio matrix allows output to be assigned to any video zone output
- Audio mute function allows audio to be cut either via API or WebUI



## CONTROL

- Simple installer setup & configuration via WebUI with settings protected behind password
- WebUI can be used in lieu of a control system or app to control source switching
- A/V mute function cuts HDMI signal to any output on demand, selectable via front panel, API or WebUI

### A/V Mute Function Cuts Output Feeds

Useful for a variety of reasons, depending on the application, the A/V mute function enables the matrix to stop sending HDMI data to an output with a simple API command

### Visually Lossless 4K/60 4:4:4 over HDBT

Dynamic variable compression delivering 18Gbps 4K/60 4:4:4 and HDR over HDBaseT.



### Mirrored Outputs for Extended Reach

The 6x6 and 8x8 models each feature 4 mirrored outputs enabling a range of options for adding additional screens via WyreStorm extenders or Active Optical Cables.

### Assignable Audio Outputs

Each S/PDIF output on the 4x8, 6x6 & 8x8 models are assignable, meaning that any source audio can be routed to any output.



INPUT	OUTPUT
4	4+1

2160p  
4:4:4 60



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

##### MXV-0404-H2A-KIT

- HDBaseT transmission of 4K/60 4:4:4 up to 35m/98ft
- Dual S/PDIF and stereo RCA audio matrix outputs with mute
- Supports 60Hz HDR-10 & HLG content and Dolby Vision at 30Hz over HDBaseT
- Single mirrored HDMI output for connection to local AVR or TV
- A/V mute function cuts signal to any output on demand
- PoH technology powers 4 included receivers from the matrix



INPUT	OUTPUT
4	8

2160p  
4:4:4 60



#### 4x8 4K HDR Matrix with 6 HDBaseT/2 HDMI outputs and audio breakout (4K: 35m/115ft | 1080p: 70m/230ft)

##### MXV-0408-H2A

- HDBaseT transmission of 4K/60 4:4:4 up to 35m/98ft to 6 zones
- S/PDIF Toslink audio matrix outputs with mute
- Supports 60Hz HDR-10 & HLG content and Dolby Vision at 30Hz over HDBaseT
- 6 HDBaseT and 2 HDMI outputs all offering 18Gbps signal distribution
- A/V mute function cuts signal to any output on demand
- PoH technology powers receivers from the matrix



INPUT	OUTPUT
6	6+4

2160p  
4:4:4 60



#### 6x6 4K HDR HDBaseT Matrix with 4 Mirrored HDMI outputs and audio breakout (4K: 35m/115ft | 1080p: 70m/230ft)

##### MXV-0606-H2A

- HDBaseT transmission of 4K/60 4:4:4 up to 35m/98ft to 6 zones
- S/PDIF Toslink audio matrix outputs with mute
- Supports 60Hz HDR-10 & HLG content and Dolby Vision at 30Hz over HDBaseT
- 6 HDBaseT and 4 HDMI outputs all offering 18Gbps signal distribution to 10 screens
- A/V mute function cuts signal to any output on demand
- PoH technology powers receivers from the matrix



INPUT	OUTPUT
8	8+4

2160p  
4:4:4 60



#### 8x8 4K HDR HDBaseT Matrix with 4 Mirrored HDMI outputs and audio breakout (4K: 35m/115ft | 1080p: 70m/230ft)

##### MXV-0808-H2A

- HDBaseT transmission of 4K/60 4:4:4 up to 35m/98ft to 8 zones
- S/PDIF Toslink audio matrix outputs with mute
- Supports 60Hz HDR-10 & HLG content and Dolby Vision at 30Hz over HDBaseT
- 8 HDBaseT and 4 HDMI outputs all offering 18Gbps signal distribution to 12 screens
- A/V mute function cuts signal to any output on demand
- PoH technology powers receivers from the matrix



2160p  
4:4:4 60



#### 4K/60 4:4:4 HDBaseT Receiver with Bidirectional IR, RS-232 and PoH (4K to 35m/115ft - 1080p to 70m/230ft)

##### RXV-35-4K

- Receives compressed HDBaseT transmissions of content up to 18Gbps
- Supports 4K/60 4:4:4 8-bit or HDR-10 and HLG content at 60Hz
- Supports Video, Audio, Bidirectional IR & RS-232 and PoH
- PoH allows power to be drawn from a compatible matrix or transmission device
- HDCP 2.2 compliant





# H2XC SERIES: MATRIX SWITCHING EVOLVED

## 18GBPS DISTRIBUTION OVER COPPER & FIBER

The only 18Gbps matrix platform offering multi-point distribution over HDBT & fibre and sporting a full audio matrix with DSP, the H2XC represents a leap forward in understanding the AV signal management market demands for medium to large commercial and residential applications. The modular H2XC Series offers customizable, centralized, audio/video signal management and distribution for perfect AV synchronicity of all the latest HD and UHD formats.

Featuring instant, zero latency switching of 4K HDR with integrated DSP audio matrixing of up to 48 separate audio signals with volume control, the H2XC Series features a selection of multiformat transmission card options, including 18Gbps HDMI inputs and mirrored outputs, HDBaseT input for decentralized source connection, and variable compression supporting 18Gbps content and 4K/60 4:4:4 or RGB or 4K/60 4:2:0 HDR 12-bit transmissions over both HDBaseT and OM3 multimode fiber.



### AUDIO

- True volume control with adjustable increments +/- or set level and a line out option for pre-amp connection
- Mute behaviour capable to cut or ramp audio up/down, unmute to zero or previous audio level
- Audio DSP includes 10-band EQ adjustment and 200ms audio delay to synchronise with the latest TV image processing
- Audio "Follow" option allows a single audio switching command to follow a video switching command rather than 2 separate commands for video & audio



### WEB UI

- Log In as User or Admin
- Dedicated audio control tab within UI
- True volume control for every output, including incremental adjustment and delay settings
- One-click adjustment sets all-zones
- Matrix status now includes the type of card installed per slot, and gives an on screen message if a technical or link status issue is detected with a card
- API command entry enables API commands and Serial routing to be sent within the UI rather than via a third party application

## Modular Transmission Card Options



### 4K HDR with Extensive Audio Options

#### TX-H2X-HDMI

Featuring local 18Gbps HDMI in and out (mirroring HDBT) for connection to a local monitor, AVR, or extender product, and delivers 4K HDR over HDBaseT to 70m/230ft with ARC, S/PDIF in/out and analog stereo out with volume control for multi-room audio system or AVR connection.



### Decentralize Your Sources

#### TX-H2X-HDBT

HDBaseT input/output card offers decentralized source connection enabling devices to be kept in-situ whilst making them part of the main distribution system.

Supports 4K HDR transmissions from remote sources up to 70m/230ft along with the same audio, volume and control options as the H2X-HDMI card.



### Visually Lossless 4K/60 4:4:4 Over HDBT

#### TX-H2X-VLC

Fully loaded with WyreStorm's variable compression technology, this card dynamically reacts to detected sources to enable transmission of 18Gbps content over HDBaseT for delivery of 4K/60 4:4:4, including HFR HDR and HLG as found in the latest Blu-ray, satellite, cable and gaming content, plus standard H2X audio and control capabilities.

2160p  
4:4:4 60



### 4K/60 4:4:4 Goes Further with Fiber

#### TX-H2X-OM3

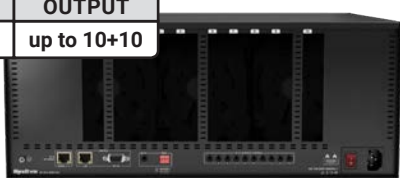
Packing the same variable compression technology as its copper counterpart, OM3 multimode fiber delivers that same high bandwidth content to previously unheard of distances of up to 300m/984ft with the added benefit of immunity to EM or RF interference.

2160p  
4:4:4 60



INPUT	OUTPUT
up to 10	up to 10+10

2160p  
4:4:4 60



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

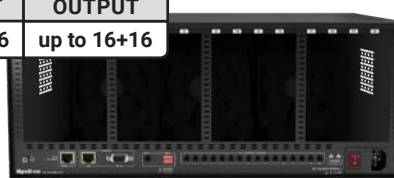
#### MX-1010-H2XC

- 10-input matrix backplane providing 18Gbps throughput to 10 outputs
- Modular card transmission options include HDBaseT and OM3 fiber
- Audio matrix supports up to 30 audio inputs: ARC, HDMI de-embed, S/PDIF In
- Supports HDR-10, HLG and Dolby Vision HDR content
- API generated control of displays via RS-232 or CEC
- Built-in diagnostic to monitor system and transmission performance
- Audio DSP allows adjustment of volume, EQ and delay for every audio zone
- SmartEDID™ dynamically resolves resolution conflicts when combining 2K/4K screens



INPUT	OUTPUT
up to 16	up to 16+16

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-H2XC

- 16-input matrix backplane providing 18Gbps throughput to 16 outputs
- Modular card transmission options include HDBaseT and OM3 fiber
- Audio matrix supports up to 48 audio inputs: ARC, HDMI de-embed, S/PDIF In
- Supports HDR-10, HLG and Dolby Vision HDR content
- API generated control of displays via RS-232 or CEC
- Built-in diagnostic to monitor system and transmission performance
- Audio DSP allows adjustment of volume, EQ and delay for every audio zone
- SmartEDID™ dynamically resolves resolution conflicts when combining 2K/4K screens



### 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

Dynamic variable compression delivering 18Gbps 4K/60 4:4:4 and HDR 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

OM3 multimode fiber and our variable compression technology enables pixel-perfect delivery of 18Gbps 4K/60 4:4:4 and HDR content and control up to 300m/984ft.



## Receiver Options



2160p  
4:4:4 60

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

### RXV-70-4K

- Receives transmissions of 18Gbps content using variable compression over HDBaseT up to 70m/230ft
- Supports 4K/60 4:4:4 or HDR-10 at 60Hz
- 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

4K HDR CHDBT™ HDCP 2.2 PoH



2160p  
4:4:4 60

**18Gbps HDBaseT Receiver with ARC and Optical Audio Return (4K: 70m/230ft | 1080p: 100m/328ft)**

### RXV-70-4K-ARC

- Receives transmissions of 18Gbps content using variable compression over HDBaseT up to 70m/230ft
- Supports 4K/60 4:4:4 or HDR-10 at 60Hz
- ARC selectable between audio from HDMI or S/PDIF input
- TOSLINK input allows TVs without ARC support to send audio to the matrix
- Optical/analog S/PDIF output enables extraction of source audio from HDMI/HDBaseT signals
- PoH remotely powers receiver from the matrix with no local power at display location

4K HDR CHDBT™ HDCP 2.2 PoH ARC



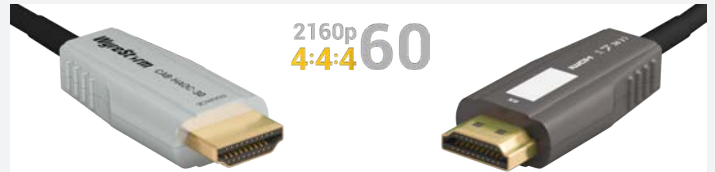
2160p  
4:4:4 60

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

### RXF-300-4K

- Receives transmissions of 18Gbps content using variable compression over multimode fiber up to 300m/984ft
- Supports 4K/60 4:4:4 and HDCP 2.2 compliant
- Compatible with latest HDR-10+ content, including HLG and Dolby Vision
- Passes IR or RS-232 control signals bidirectionally
- Immune to EM or RF interference

4K HDR HDMI™ HDCP 2.2



2160p  
4:4:4 60

**18Gbps Over Active Optical HDMI Cable**

### CAB-HAOC-10 | 15 | 20

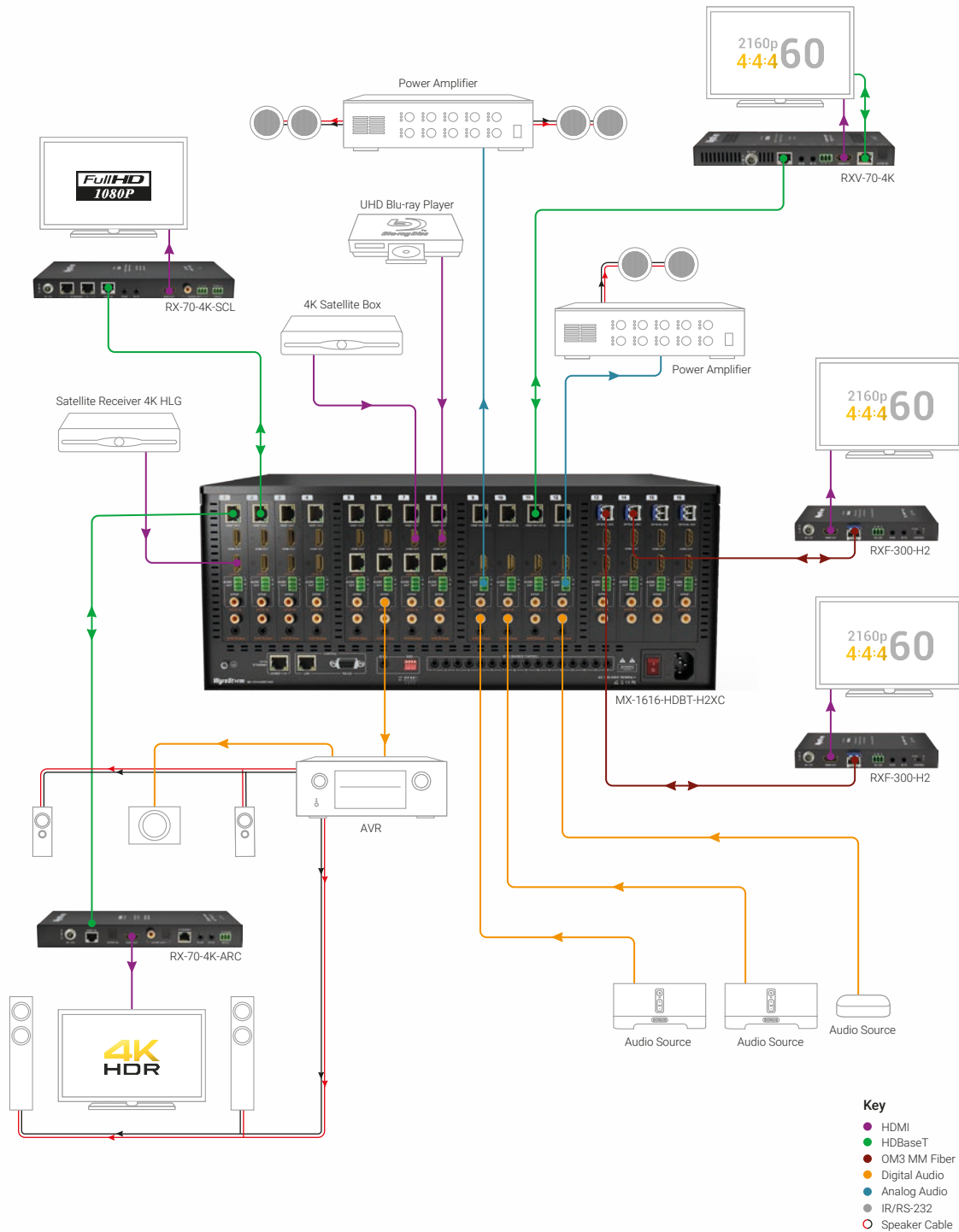
(CL3/FT4 SAFETY APPROVED)

- Uncompressed optical transmission of 18Gbps HDMI content at 4K/60 4:4:4 or HDR at 60Hz available in 10m, 15m, 20m and 30m lengths
- Compatible with latest HDR standards including HLG, 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
- Supplied coiled on spool for easy installation
- CL3 and FT4 certified

4K HDR HDMI™ ARC HDCP 2.2



# 4K Matrix Switcher Application

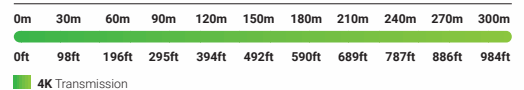


## H2XC Series

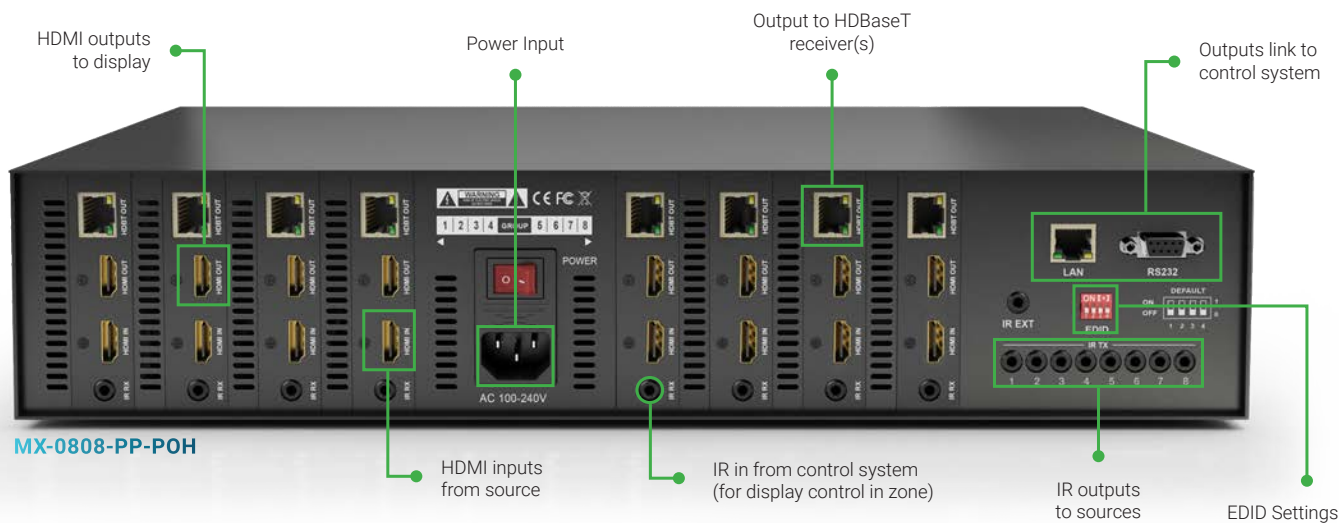
### Cat6 Cable Performance Guide



### OM3 Cable Performance Guide



# 2K Matrix Switchers



## 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

WyreStorm written drivers available, compatible control systems





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

**CHDBT™ HDMI™ HDCP PoH**

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

**4K HDMI™**   

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

**CHDBT™ HDMI™ HDCP PoH**

### 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

**4K UHD CHDBT™ HDCP 2.2 PoH CEC**

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

**CHDBT™ HDMI™ HDCP PoH**



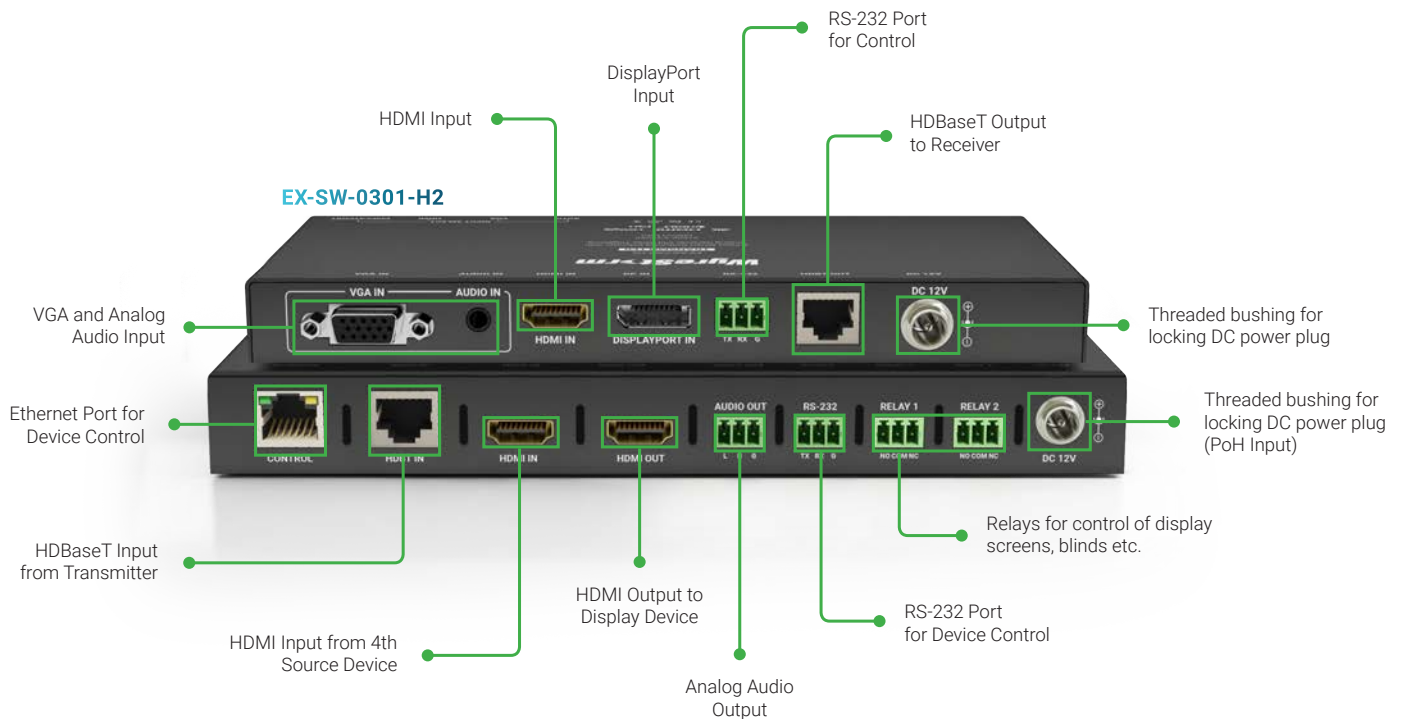
#### HDBaseT Repeating Receiver with Integrated 2.1 Audio Amplifier (1080p: 70m/230ft)

##### 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 subwoofer 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

**CHDBT™ HDMI™ HDCP ARC**

# Presentation Solutions



## Collaboration

## Comprehensive Control

## Seamless Switching

### SCREENLINK™

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.

### CEC

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 multiview 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](mailto: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



INPUT	OUTPUT
4	1



### 4-Input Presentation Switcher with CEC Triggering and HDBaseT Output

#### SW-0401-HDBT

- Smart presentation switch with CEC triggering and dual 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



INPUT	OUTPUT
3+1	1



### 3+1 Input HDBaseT Switching Extender with Scaling Receiver and Relay Triggering (4K: 35m/115ft | 1080p: 70m/230ft)

#### EX-SW-0301-H2

- 3x input HDBaseT switcher/extender for education or huddle room environments
- Featuring HDMI, DisplayPort and VGA inputs with auto/manual switching
- Automatic (condition based) or manually triggered relays on receiver for operation of projector screens or lifts
- Additional HDMI input on receiver for the connection of an additional source device, such as a signage player when a room is not in use
- Automatic or manual control of connected screen or projector via CEC or RS-232
- Control via RS-232, TELNET port on RX or manual push-button
- Compatible with 4K/60 4:2:0 sources and HDCP 2.2



INPUT	OUTPUT
4+2	1+1



### 4+2 Input HDBaseT Switching Extender with USB2.0 and Condition Based Relays (4K: 70m/230ft | 1080p: 140m/459ft)

#### EX-SW-0401-H2-PRO

- 4x input professional HDBaseT switcher/extender for video conference and meeting rooms
- Bidirectional USB2.0 for extension and switching of webcams, smart whiteboards, touchscreens and microphones
- Inputs include HDMI, VGA, DisplayPort and USB-C plus 2 HDMI on receiver
- Supports source content up to 4K/60 4:2:0 and HDCP 2.2
- Audio de-embed on receiver
- 2x Ethernet ports on both TX & RX and separate analog audio channel between TX & RX
- Automatic or manual control of connected screen via CEC or RS-232



TS-280-US



TS-280-EU

### 2.8" Serial Control Color Touchscreen

#### TS-280-US | TS-280-EU

- Compact 2.8" backlit color touchscreen available as EU or 2-Gang US models
- Auto power off and wake-on-touch
- Compatible with all WyreStorm presentation switcher/matrix
- Powered directly by compatible switchers or external PSU via power injection box
- User preference configurable
- Easy update via MicroSD



INPUT	OUTPUT
5	1+1

SCREENLINK



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

##### SW-0501-HDBT

- 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



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



## 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](mailto:systemdesigns@wyrestorm.com) and let us help you get your project started!



## 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



### 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 KIT ALSO  
AVAILABLE ON P.38

### 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







EX-SW-0301-H2



EX-SW-0401-H2-PRO

# TIME TO **HUDDLE**

**"I love wasting time setting up a meeting room" said no one, ever.**

With ease of use in mind, both the EX-SW-0301-H2 & EX-SW-0401-H2-PRO presentation solutions offer powerful multi-source extension and touchscreen control via the TS-280 US and EU models.

Aimed at education or corporate huddle spaces, these powerful additions to WyreStorm's range offer automatically triggered CEC control for connected screens, condition-based relay triggering and inputs at the receiver side for additional source devices to be used. More particularly, on the 0401 model, when HDBT2.0 is used, the result is powerful USB device extension, perfect for corporate meeting & video conference rooms.

With the 0401, not only does the presentation video automatically get switched to the screen, the camera, mic and speaker from the room get connected to the soft codec of the laptop. Time saved, meeting started.

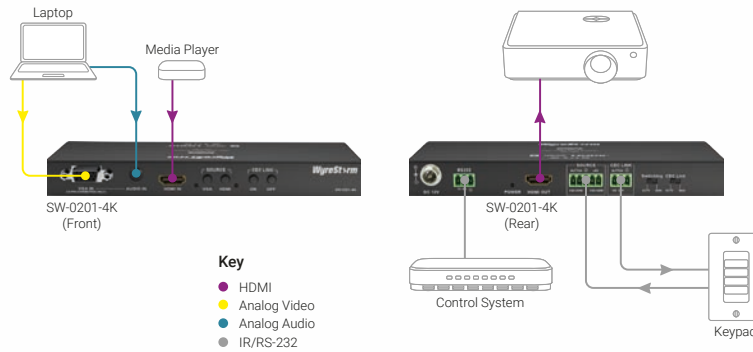
In short: multiple I/O's, condition-based relays and USB 2.0 extension mean an autonomous experience just by plugging in a cable.



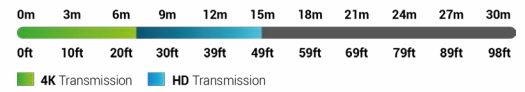


# Presentation Solutions Applications

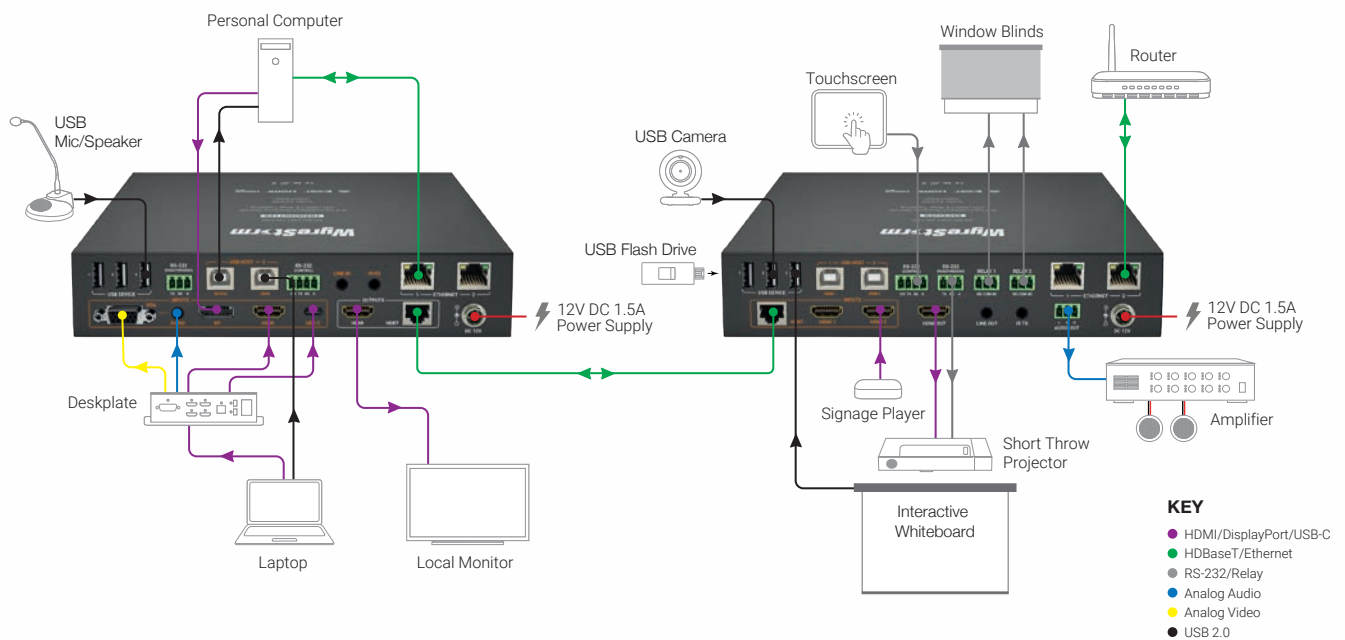
## Auto Switching Extender for Small Meeting Rooms & Classrooms



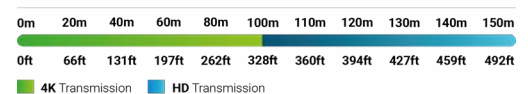
HDMI Cable Performance Guide



## Auto Switching Extender for Presentation and Collaboration Spaces



Cat6 Cable Performance Guide



# Transmitters and Receivers



Please contact your authorized WyreStorm representative or [marketing@wyrestorm.com](mailto: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** **HDBT** **HDMI** **HDCP**



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

### TX-70-4K

- Transmits 4K HDR signals (4K/30 4:2:0 10-bit) up to 70m/230ft
- HDBaseT supports video, audio, bidirectional IR/RS-232, PoH and Ethernet
- Low-profile 18mm chassis
- Can also be used with WyreStorm H2XC matrix or presentation switchers
- 2-way PoH for maximum flexibility during install

**4K HDR** **HDBT** **HDCP 2.2** **POH**



IN-WALL TX AND  
STANDALONE RX KIT ALSO  
AVAILABLE ON P38

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

### TX-SW-IW-0201

- HDMI/VGA auto-switching 2-Gang Decora wall plate
- 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 70m/230ft or 1080p to 100m/328ft
- Built-in IR receiver window for easy TV/Projector control

**4K UHD** **HDBT** **HDCP 2.2** **POH**





#### 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



#### 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 subwoofer 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/60 4:4:4 HDBaseT Receiver with Bidirectional IR, RS-232 and PoH (4K to 35m/115ft - 1080p to 70m/230ft)

##### RXV-35-4K

- Receives compressed HDBaseT transmissions of content up to 18Gbps
- Supports 4K 4:4:4, HDR-10 & HLG at 60Hz
- Supports Video, Audio, Bidirectional IR & RS-232 and PoH
- PoH allows power to be drawn from a compatible matrix or transmission device
- HDCP 2.2 compliant



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

##### RXV-70-4K

- Receives transmissions of 18Gbps content using variable compression over HDBaseT up to 70m/230ft
- Supports 4K 4:4:4, HDR-10 & HLG at 60Hz
- Supports video, audio, bidirectional IR/RS-232, power and Ethernet
- PoH remotely powers receiver from the matrix with no local power at display location
- HDCP 2.2 compliant



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

##### RXV-70-4K-ARC

- HDBaseT receiver with HDMI Audio Return Channel (ARC) support
- Receives transmissions of 18Gbps content using variable compression over HDBaseT up to 70m/230ft
- Supports 4K 4:4:4, HDR-10 & HLG at 60Hz
- Toslink input allows for audio from a TV without ARC support to send audio to the matrix
- ARC selectable between audio from HDMI or S/PDIF input
- PoH remotely powers receiver from the matrix with no local power at display location



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

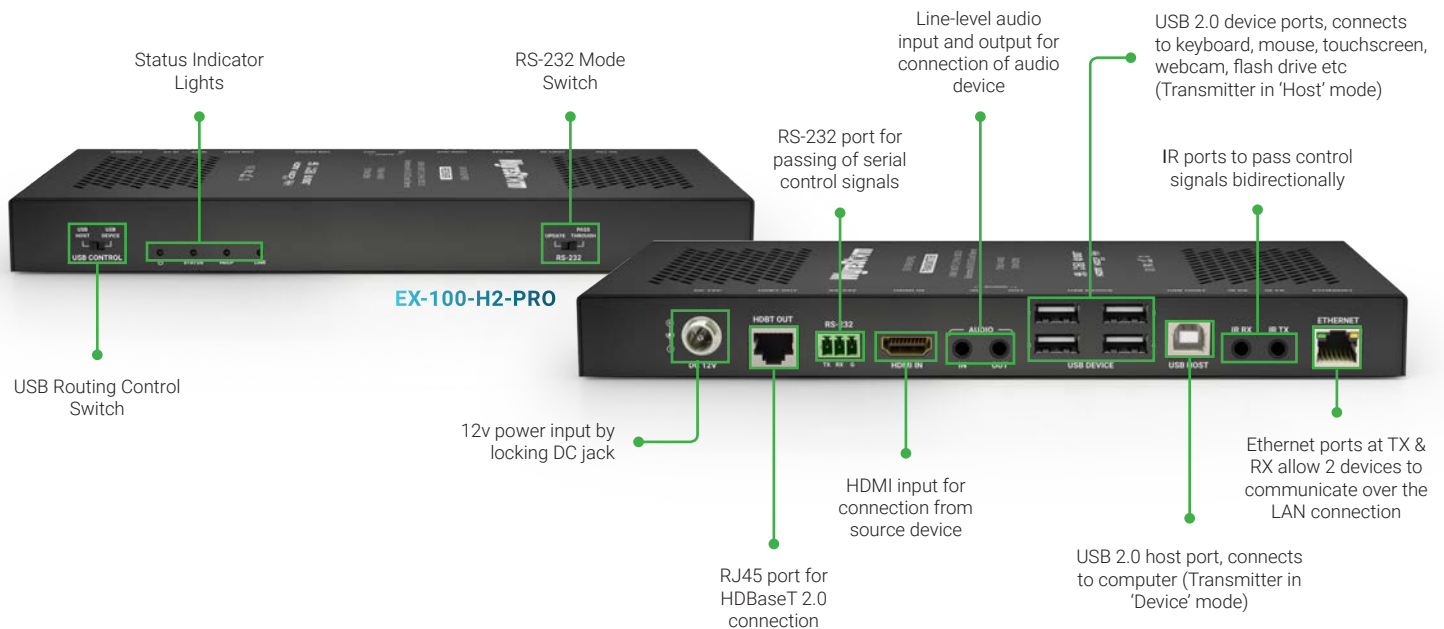
##### RXF-300-4K

- Receives transmissions of 18Gbps content using variable compression over multimode fiber up to 300m/984ft
- Supports 4K/60 4:4:4 and HDCP 2.2 compliant
- Compatible with latest HDR-10+ content, including HLG and Dolby Vision
- Passes IR or RS-232 control signals bidirectionally
- Immune to EM or RF interference





# Extenders



## 18Gbps Support

2160p  
4:4:4 60

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.

## Fiber Revolution



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.

## Enhanced Audio with ARC



Free the audio from the on-demand content on your smart TV using the EX-35-H2-ARC extender. The HDBaseT specification enables digital audio from a Smart TV to be sent back to the transmitter and broken out to an AVR or audio system.

The EX-35-H2-ARC is an industry first as it features True ARC functionality, outputting the audio via the HDMI input on the transmitter, connecting directly to an AVR output.

This has benefits for the installer as it means additional AVR switching commands aren't required thanks to the transparent ARC communication. Even older, not-so-smart TV's without true ARC functionality can get in on the action with an S/PDIF input on the receiver allowing audio to be sent back to the transmitter side.

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



#### 1080p HDMI-over-UTP Extender with IR and PoC (1080p: 40m/131ft)

##### EX-40-G3

- Transmits 1080p HDMI content over UTP to 40m/131ft
- PoC means receiver is powered via a single PSU at the transmitter
- IR pass-through RX>TX for source control
- Simple signal equalization via slider switch
- Slim 21mm chassis for discreet installation

**HDMI™ HDCP**

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



#### 4K UHD HDBaseT Extender Set with HDCP 2.2 & 2-way PoH (4K: 35m/115ft | 1080p: 70m/230ft)

##### EX-70-G2

- Extends 4K UHD transmissions up to 35m/115ft or 1080p to 70m/230ft
- Compatible with HDCP 2.2 content encryption
- Bidirectional pass-through of IR, RS-232 and CEC
- CEC pass-through
- 2-way PoH for flexible and convenient installation

**4K UHD CHDBT™ HDMI™ HDCP 2.2 PoH**

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

- Dynamic visually lossless compression enables extension of up to 4K HDR content at 60Hz to 35m/115ft
- Supports full bandwidth HDMI content up to 17.8Gbps
- Compatible with the latest HDR standards, including HDR-10 and HLG content, with support for Dolby Vision™ up to 30Hz
- 2-way PoH for maximum installation flexibility and convenience
- Bidirectional IR and RS-232

**4K HDR CHDBT™ HDMI™ HDCP 2.2 PoH**

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

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 (REPLACING EX-70-H2X-ARC)

- Dynamic visually lossless compression enables extension of up to 4K HDR content at 60Hz to 35m/115ft
- Supports full bandwidth HDMI content up to 17.8Gbps
- Compatible with the latest HDR standards, including HDR-10 and HLG content, with support for Dolby Vision™ up to 30Hz
- ARC compatible receiver extracts 5.1 audio from TV and sends over HDBaseT to transmitter, S/PDIF input on receiver also included.
- 2-way PoH for maximum flexibility during installation
- Bidirectional IR and RS-232

**4K HDR CHDBT™ HDMI™ HDCP 2.2 PoH ARC**

2K	4K UHD	4:4:4/60
140m	70m	70m

2160p  
4:4:4 60



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

##### EX-70-H2X

- Dynamic visually lossless compression enables extension of up to 4K HDR content at 60Hz to 70m/230ft
- Supports full bandwidth HDMI content up to 17.8Gbps
- Compatible with the latest HDR standards, including HDR-10 and HLG content, with support for Dolby Vision™ up to 30Hz
- Class A HDBaseT supports video, multichannel audio, bidirectional IR/RS-232, 2-Way PoH and Ethernet
- EDID adjustment and link strength indicator on transmitter
- Long cable mode support 1080p transmission to 140m/459ft
- 2-way PoH for convenient single PSU installation

**4K HDR CHDBT™ HDMI™ HDCP 2.2 PoH**

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

Available Q1 2019

2160p  
4:4:4 60



#### 18Gbps 4K HDR HDBaseT Extender with HDCP 2.2 and 2-way PoH (4K: 70m/230ft | 1080p: 100m/328ft)

##### EX-70-H2

- Dynamic visually lossless compression enables extension of up to 4K HDR content at 60Hz to 70m/230ft
- Supports full bandwidth HDMI content up to 17.8Gbps
- Compatible with the latest HDR standards, including HDR-10 and HLG content, with support for Dolby Vision™ up to 30Hz
- Class A HDBaseT supports video, multichannel audio, bidirectional IR/RS-232 and 2-Way PoH
- 2-way PoH for convenient single PSU installation

**4K HDR CHDBT™ HDMI™ HDCP 2.2 PoH**



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

2160p  
4:4:4 60



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

##### EXF-300-H2

- Variable compression supports extension of 18Gbps content for 4K/60 4:4:4 or HDR at 60Hz using multimode fiber up to 300m/984ft
- Compatible with latest HDR standards including HLG, HDR-10+ and Dolby Vision
- 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

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

Available Q1 2019

2160p  
4:4:4 60



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

##### EX-100-H2-PRO

- Variable compression and advanced HDBaseT 2.0 technology extend 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 HDBaseT 2.0 HDMI HDCP 2.2 PoH

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



#### 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 HDBaseT 2.0 HDMI HDCP 2.2

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 HDBaseT 2.0 HDMI HDCP 2.2 PoH



# THE RIGHT **EXTENDER** FOR THE RIGHT APPLICATION, **WYRESTORM** HAS YOU COVERED.

## 4K UHD

**4K UHD**  
We now live in a 4K world; all of our extenders are compatible with the latest 4K/60 4:2:0 and 1080p sources alike.

## ARC

**Audio Return Channel**  
Free the audio from within a SmartTV with the WyreStorm EX-35-H2-ARC HDBaseT™ extender, supporting both True ARC or optical audio return.

## 2160p 4:4:4 60

**2160 4:4:4**  
We've developed our VLC chipset (Variable Lossless Compression) to support the next shift in content technology: 60Hz HDR & 4:4:4 60Hz.

## 4K HDR

**4K HDR**  
These extenders support all new source devices outputting both HDR-10 and HLG content at up to 60Hz and Dolby Vision running at 30Hz



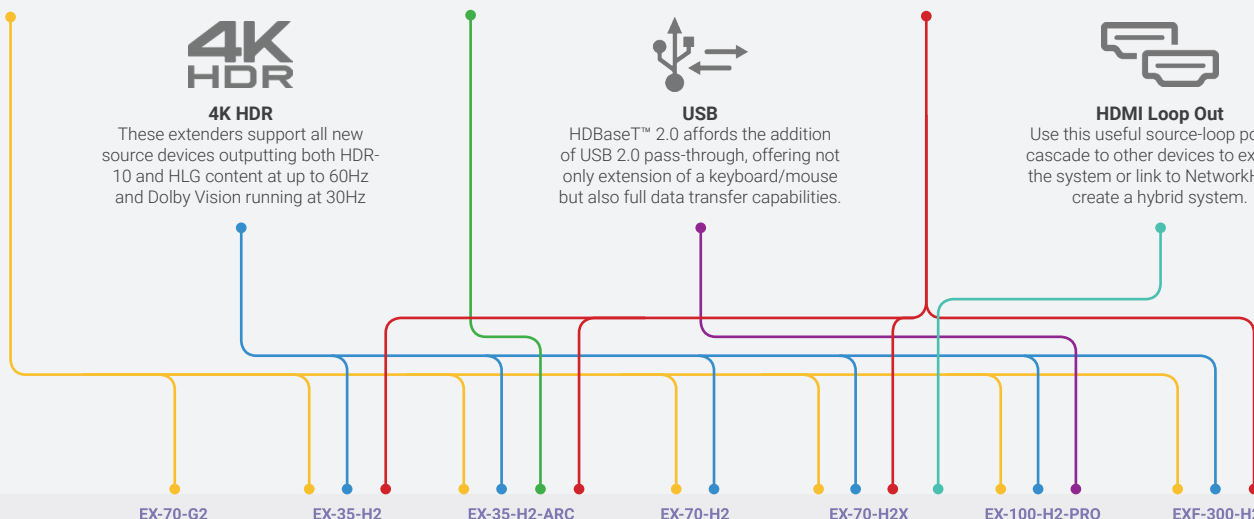
**USB**

HDBaseT™ 2.0 affords the addition of USB 2.0 pass-through, offering not only extension of a keyboard/mouse but also full data transfer capabilities.



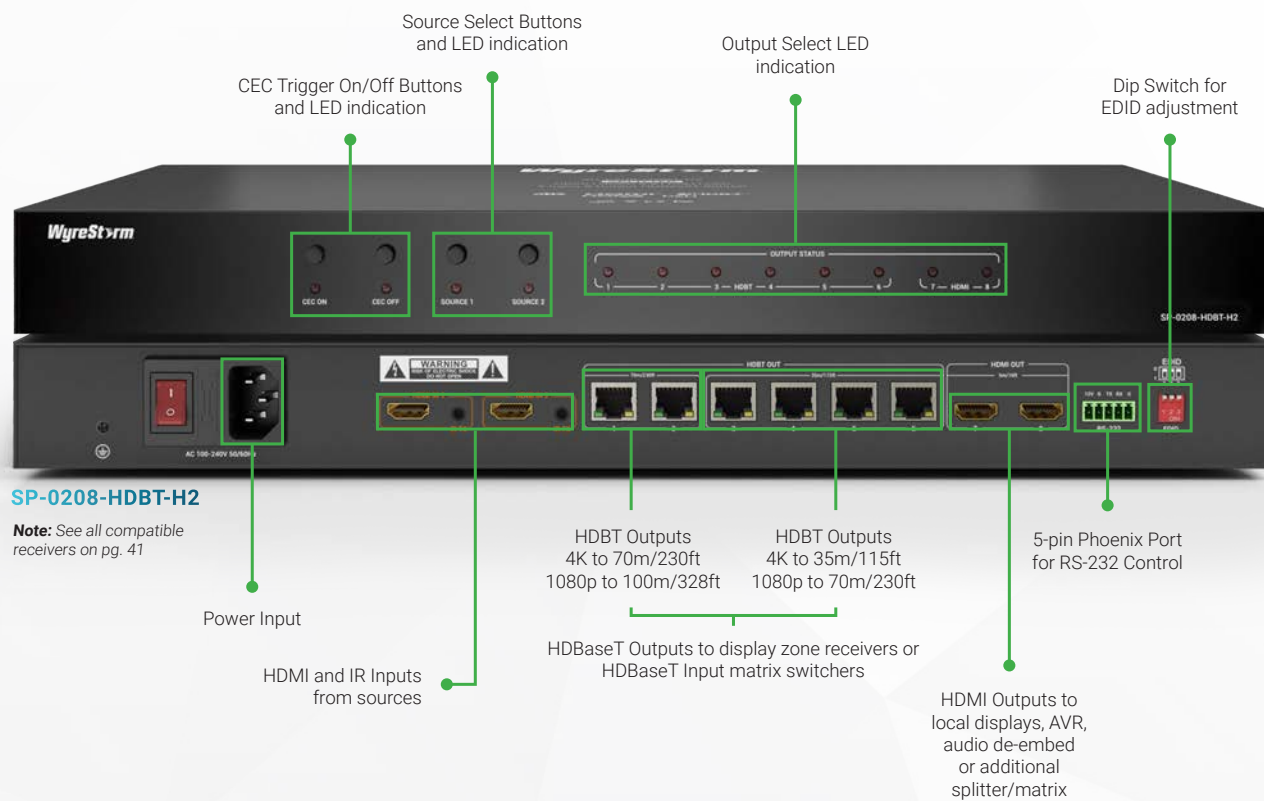
**HDMI Loop Out**

Use this useful source-loop port to cascade to other devices to expand the system or link to NetworkHD to create a hybrid system.



Audio + Video							
HDCP	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1080p Distance	70m/230ft	70m/230ft	70m/230ft	100m/328ft	100m/328ft	150m/492ft	300m/984ft
4K Distance	35m/115ft	35m/115ft	35m/115ft	70m/230ft	70m/230ft	100m/328ft	300m/984ft
Max. Resolution	2160p@60 4:2:0	2160p@60 4:4:4 2160p@60 12-bit 4:2:2 (HDR)	2160p@60 4:4:4 2160p@60 12-bit 4:2:2 (HDR)	2160p@60 4:4:4 2160p@60 12-bit 4:2:2 (HDR)	2160p@60Hz 4:4:4 2160p@60Hz 12-bit 4:2:2 (HDR)	2160p@60 4:2:0 2160p@24 10-bit (HDR)	2160p@60 4:4:4 2160p@60 12-bit 4:2:2 (HDR)
HDR (High Dynamic Range)	×	✓	✓	✓	✓	✓	✓
Digital Audio Passthrough	×	×	✓	×	×	✓	×
Analog Audio Passthrough	×	×	×	×	×	✓	×
Source Audio Breakout	×	×	✓	×	×	×	×
HDMI Source Loop Output	×	×	×	×	✓	×	×
ARC (Audio Return Channel)	×	×	✓	×	×	×	×
Automatic Signal Compression	×	✓	✓	✓	✓	×	✓
Technology	HDBaseT Class B	HDBaseT Class B	HDBaseT Class B	HDBaseT Class A	HDBaseT Class A	HDBaseT Class C	HDMI over Multi-mode fibre
Communication							
Ethernet	×	×	×	×	✓	✓	×
USB 2.0	×	×	×	×	×	✓	×
Enhanced 4K Compatibility	×	✓	✓	✓	✓	✓	×
Control							
IR (Bidirectional)	✓	✓	✓	✓	✓	✓	✓
RS-232 (Bidirectional)	✓	✓	✓	✓	✓	✓	✓
CEC Pass-through	✓	✓	✓	✓	×	×	×
Power							
PoH	2-way	2-way	2-way	2-way	2-way	2-way	×

# 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.**

Split signals your way with the WyreStorm SP-0208-HDBT-H2, a 4K UltraHD splitter 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 & play splitting of a single HDMI source to 2 displays
- Supports 4K/60 4:4:4 or HDR at 60Hz and HD audio formats
- EDID copy from output 1
- Threaded DC power plug, LED power and I/O status indication
- Low profile 18mm chassis, with mounting brackets for flexible placement
- HDCP 2.2 compliant

4K HDR HDMI HDCP 2.2

INPUT	OUTPUT
1	4

2160p  
4:4:4 60



### 1:4 4K HDR HDMI Splitter

#### SP-0104-H2

- Easy plug & play splitting of a single HDMI source to up to 4 displays
- Supports 4K/60 4:4:4 or HDR at 60Hz and HD audio formats
- EDID options include copy, embedded fix or mix modes for ultimate compatibility
- Threaded DC power plug, LED power and I/O status indication
- Low profile 18mm chassis, with mounting brackets for flexible placement
- HDCP 2.2 compliant

4K HDR HDMI HDCP 2.2

INPUT	OUTPUT
1	8

2160p  
4:4:4 60



### 1:8 4K HDR HDMI Splitter

#### SP-0108-H2

- Easy plug & play splitting of a single HDMI source to up to 8 displays
- Supports 4K/60 4:4:4 or HDR at 60Hz and HD audio formats
- EDID options include copy or embedded fix modes for extended compatibility
- Threaded DC power plug, LED power and I/O status indication
- Low profile 18mm chassis, with mounting brackets for flexible placement
- HDCP 2.2 compliant

4K HDR HDMI HDCP 2.2



INPUT	OUTPUT
2	2+4+2



### COMPATIBLE RECEIVERS (P. 34-35)

**RX-70-POH** 4K UHD 35m PoH

**RX-70-4K** 4K HDR 70m PoH + Ethernet

**RX-70-4K-ARC** 4K HDR 70m PoH + Ethernet + Audio Breakout

**RX-70-4K-SCL** 4K HDR 70m PoH + Ethernet + Audio Breakout + Scaling

### 2:8 4K HDR Splitter Featuring 6x HDBaseT Outputs

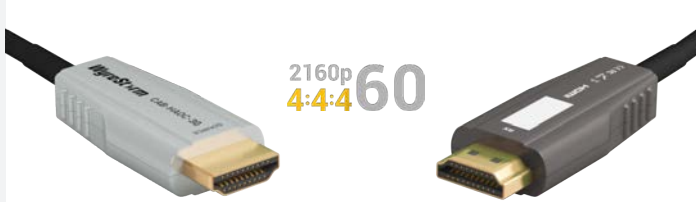
#### SP-0208-HDBT-H2

- 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

4K HDR HDBaseT HDMI PoH CEC HDCP 2.2



# Premium Cables



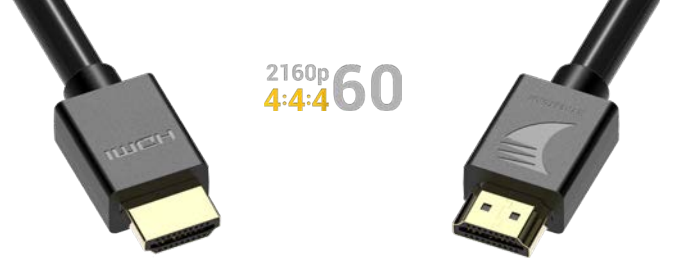
## 18Gbps Over Active Optical HDMI Cable

**CAB-HAOC-10 | 15 | 20**

(CL3/FT4 SAFETY APPROVED)

- Uncompressed optical transmission of 18Gbps HDMI content at 4K/60 4:4:4 or HDR at 60Hz available in 10m, 15m, 20m and 30m lengths
- Compatible with latest HDR standards including HLG, 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
- Supplied coiled on spool for easy installation
- CL3 and FT4 certified

**4K HDR** **HDMI** **ARC** **HDCP 2.2**

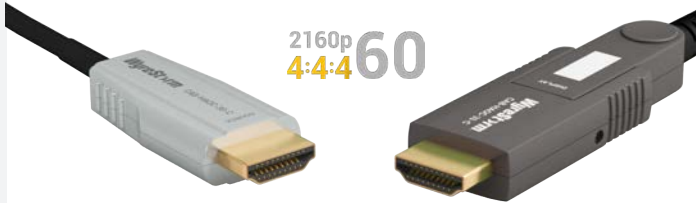


## 18Gbps Low Profile HDMI Cable

**CAB-HDMI-H2-05M | 1M | 2M | 3M | 5M**

- For short-range transmission of 18Gbps HDMI content at 4K/60 4:4:4 or HDR at 60Hz
- Compatible with latest HDR standards including HLG, HDR-10+ and Dolby Vision
- High quality construction with ultra-low-profile head
- ARC and CEC enabled for true native HDMI communication between devices

**WyreStorm Express** **4K HDR** **HDMI** **HDCP 2.2**



## 18Gbps Over Active Optical HDMI Cable

**CAB-HAOC-30-C | 40-C | 50-C** **CAB-HAOC-30-P | 40-P | 50-P**

(CPR SAFETY APPROVED)

(PLENUM SAFETY APPROVED)

- Uncompressed optical transmission of 18Gbps HDMI content at 4K/60 4:4:4 or HDR at 60Hz available in 10m, 15m, 20m and 30m lengths
- Compatible with latest HDR standards including HLG, HDR-10+ and Dolby Vision
- Perfect for use in environments with excessive EM or RF interference
- Removable HDMI head available on 30m, 40m and 50m lengths
- ARC and CEC enabled for true native HDMI communication
- Supports HDCP 2.2 content encryption
- Supplied coiled on spool for easy installation
- Plenum UL and CPR certified\*

\*certification applies to region in which the cable is sold

**4K HDR** **HDMI** **ARC** **HDCP 2.2**



## 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

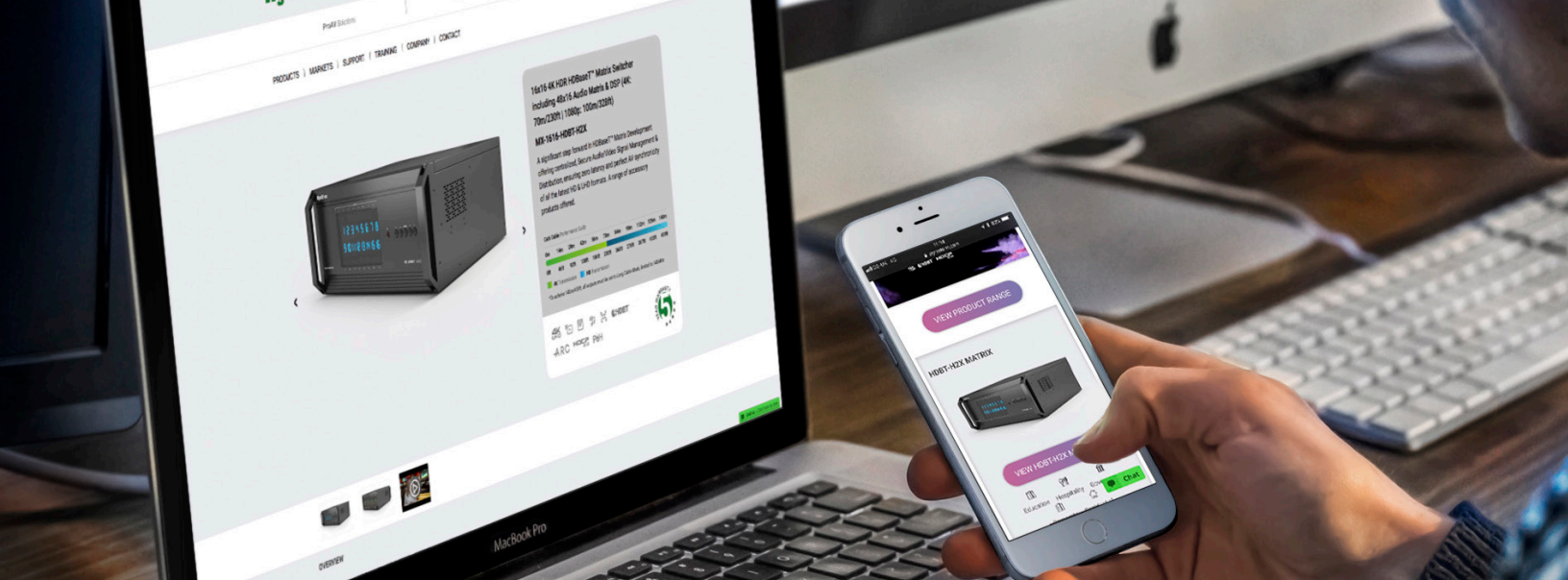


## WyreStorm Express High Speed HDMI Cable

**EXP-HDMI-10.0M | EXP-HDMI-15.0M**

- Full HD 1080p Compatible
- Available in 10m/32ft and 15m/49ft cable lengths
- High quality, premium grade cable
- 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

**WyreStorm Express** **HDMI** **ARC** **HDCP 2.2**



# INTRODUCING WYRESTORM.COM

**Fresh Design | New Functionality | Greater Access | Exclusive Content**  
**Your Destination for Everything WyreStorm.**

At WyreStorm, we know the technology matters when it comes to all successful AV projects. Wyrestorm.com illustrates exactly what we mean by providing the right product for the right application.

## Multi-Technology. Cross-Market.

Navigate by product category or market application and get easy to understand overviews and detailed specification on all our multi-platform HDBaseT, HDMI, Fiber & AV over IP solutions to help tailor your solution to your application - not the other way around.

## Get the Knowledge. Get the Facts.

Our wide-ranging online Knowledge Base offers clear, unbiased explanations and advice on all aspects focused on the dealer and end-user experience that demystifies what can be at times a confusing industry landscape by simply focusing on facts.

## We've Got You Covered.

From our 5 Year warranty to our comprehensive support and resources, the new site includes in-depth product literature, system designs, the Management Suite, drivers, technical videos, Enado control templates, and more.

## Access All Areas Anywhere.

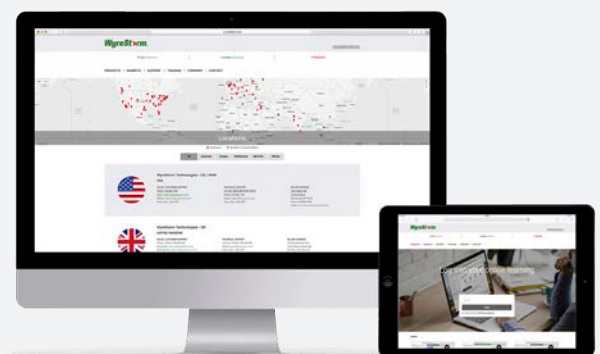
Our interactive world map lets you find your nearest WyreStorm Distributor, and with more exciting additions and cool new features coming to the site over the next few months, you'll always have the latest from WyreStorm wherever you are.

## Create an Account. Get More. WyreStorm at Your Fingertips.

Create a WyreStorm online account today\* and get access to pricing and exclusive partner content, see up-to-date stock levels, and enjoy a fully secure click-to-buy shopping cart experience.\*\* Fast. Easy. Convenient.

\*WyreStorm account application is subject to approval and an anticipated minimum annual spend subject to quarterly review.

\*\*Online shopping functionality currently available in North America only.







# NEXT GENERATION CONTENT NEEDS **NEXT GENERATION CONTENT DELIVERY**

**Experience the latest 4K UHD with HDR content  
in all its uncompressed 18Gbps glory with WyreStorm  
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, 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.





## The WyreStorm Difference:

With so many brands jumping on the Active Optical bandwagon, the market all of a sudden seems flooded with Hybrid HDMI options, but which ones are best?

On the outside they all seem to say the same things and tick the key boxes; in an industry where everyone falls over themselves quoting meaningless big numbers to win favour amongst already bemused customers, WyreStorm does things a little differently.

Whilst supporting the all important buzz words such as HDCP 2.2, ARC and CEC (it's transparent communication, after all) we further concentrate on the things that others leave behind, namely build quality & reliability; plus being fibre, it's more than capable of passing 18Gbps HDMI content.

WyreStorm HAOC's are rigorously tested to push their tolerance limits ensuring they can withstand the strains of install. In developing this next generation cable, we stretched, crushed, slammed, bent, twisted and wound this cable to ensure it would outperform those that attempt to produce something as good as a WyreStorm HAOC.

18Gbps Over Active Optical HDMI Cable

**CAB-HAOC-10 | 15 | 20**  
(CL3/FT4 SAFETY APPROVED)

18Gbps Over Active Optical HDMI Cable with detachable RX head

**CAB-HAOC-30-C | 40-C | 50-C**  
(CPR SAFETY APPROVED)  
**CAB-HAOC-30-P | 40-P | 50-P**  
(PLENUM SAFETY APPROVED)

## Does your active optical cable match up to a WyreStorm HAOC?



## What Our Customers Say...

*"I installed the cable into a Sony XBR65A1E OLED from a Sony STR-ZA5000ES using HDMI 2 output.*

*First off, I noticed a speed increase in the image syncing and EDID was very fast compared to the extender set I had installed before the using the fiber cable.*

*I also noticed with an installed Apple TV there was a slight color variance, which has now gone. When using the UBPX-1000ES Sony Blu-ray the sync was also much faster. Only a few seconds! HDR content was magnificent.*

*Also switching to an HTPC was substantially faster and EDID stopped making strange things happen when switching from Apple TV to HTPC sources."*

**ARI TENN**  
Volutone

*"I previously had purchased some fiber HDMI cables with the 18Gbps spec through Amazon when I originally thought to replace my Crestron cable. I tried 4 different HDMI Fiber Hybrid cables over the course of a few weeks and each of them passed images/video well but neither of those would consistently pass ARC. I ultimately returned each of those cables and kinda just gave up.*

*The WyreStorm cable has not only worked with ARC consistently now for a few hours which says that it will work moving forward but it's also produced a sharper and more detailed image with greater color saturation and specular highlights when driving HDR content. I think many people would say they don't see a difference but I can say without question that the image clarity and color depth is better using this cable than the Crestron cable or either of the 4 prior hybrid fiber cables that I purchased through Amazon.*

*I'm impressed and super pleased!"*

**TYSON SCHERB**  
Jaymarc AV, Seattle WA

# 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 at 30Hz and 1080p with HD audio
- 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 at 30Hz and 1080p with HD audio
- Low profile 18mm housing
- HDCP compliant
- Threaded DC power plug, LED power and I/O status indication



INPUT	OUTPUT
3	1



## 3x1 HDMI Switcher with Remote Control

### EXP-SW-0301

- Switches 3 HDMI sources to a single HDMI output
- Supports 4K/60Hz 4:2:0 and multichannel HD audio formats
- Simple plug and play – no set up required
- Automatic switching to last-powered on source
- Passive operation - no PSU required
- Front panel or remote handset operation



INPUT	OUTPUT
5	1



## 5x1 HDMI Switcher with Remote Control

### EXP-SW-0501

- Switches 5 HDMI sources to a single HDMI output
- Supports 4K/60Hz 4:2:0 and multichannel HD audio formats
- Simple plug and play – no set up required
- Automatic switching to last-powered on source
- Passive operation - no PSU required
- Front panel or remote handset operation





#### 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



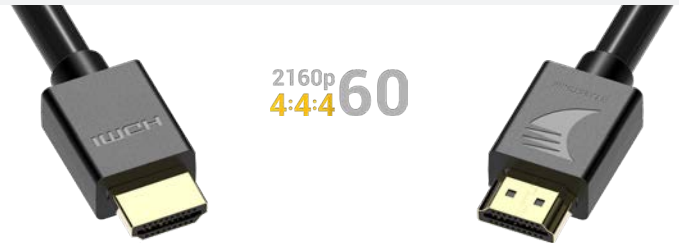
INPUT	OUTPUT
4	2



#### 4x2 HDMI Matrix Switcher with Remote Control

##### EXP-MX0402-010

- Connect and independently switch up to 4x HDMI sources to 2x HDMI outputs
- Supports 4K/30Hz 4:4:4 and multichannel HD audio formats
- Audio breakout on HDMI output 2
- 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



#### 18Gbps Low Profile HDMI Cable

##### CAB-HDMI-H2-05M | 1M | 2M | 3M | 5M

- For short-range transmission of 18Gbps HDMI content at 4K/60 4:4:4 or HDR at 60Hz
- Compatible with latest HDR standards including HLG, HDR-10+ and Dolby Vision
- High quality construction with ultra-low-profile head
- ARC and CEC enabled for true native HDMI communication between devices



#### WyreStorm Express High Speed HDMI Cable

##### EXP-HDMI-10.0M | EXP-HDMI-15.0M

- Full HD 1080p Compatible
- Available in 10m/32ft and 15m/49ft cable lengths
- High quality, premium grade cable
- 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



WyreStorm warrants that all products in the Express range are to be free from defects in material and workmanship under normal use for a period of **one (1) year** from the date of purchase from WyreStorm.

Products must have been purchased from an authorized WyreStorm dealer or through an authorized distribution partner's dealer.





*Because the Technology Matters™*

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