



*Powerful. Reliable. Simple.*

# PRODUCT GUIDE

Q1 2021

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# 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 facts 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 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 capable of serving customers wherever they may be.



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



# Our Technologies



- Still the best method of distributing and switching uncompressed HDMI 2.0 18Gb 4K/60 4:4:4, but limited to small footprint installations 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

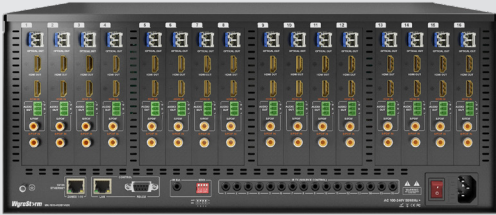


- Easiest way to distribute high bandwidth uncompressed 4K HDR content over distance within medium-to-large footprint installations
- Ideal for centralized distribution & switching/routing of up to 16 sources and 16 displays
- Supports 4K UHD transmissions up to 70m/230ft or 1080p to 100m/328ft
- Now 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 on systems up to a 16x16
- Huge variety of WyreStorm matrix switcher and extender solutions available

### SUITABLE APPLICATIONS



## FIBER



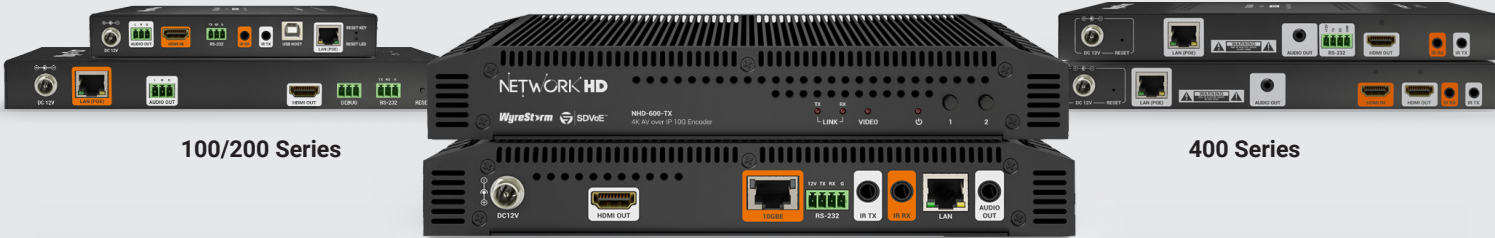
- The future of content delivery - optical cable distributes high bandwidth 4K content over huge distances point-to-point or as part of a larger HDMI, HDBaseT or AVoIP distribution
- Uses variable compression to support transmission of 18Gbps HDMI content for 4K/60 4:4:4 and HDR up to 300m/984ft
- Compatible 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
- OM3 multimode fiber transmission included on WyreStorm H2XC Series modular matrix switcher, RXF-300-4K receiver and EXF-300-H2 extender

### SUITABLE APPLICATIONS



# NETWORKHD

Three AV over IP Technologies. Infinite applications.



## H.264/H.265

- 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-adding features include seamless switching, video wall processing up to 16x16, 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
- 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**

## SDVoE™

- Pinnacle of AV distribution offering fully lossless 4K/60 and 4:4:4 / 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-adding 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

## JPEG 2000

- Cost-effective, high quality delivery 4K HDR over a 1GbE Network with low latency down to a single video frame – the compromise is slightly higher bandwidth demands
- Ideal for decentralized system designs
- Value-adding features include 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
- Free iPad control app enables access to an entire system with live video previews of all sources and selections
- Empowered with a Dante audio, it can benefit from the streaming of source audio from an encoder HDMI or analog port direct to Dante compatible audio amplifiers, DSPs or mixing consoles.



# NETWORKHD TOUCH

A FREE, PRECONFIGURED AND POWERFULLY SIMPLE CONTROL INTERFACE FOR NETWORKHD AV OVER IP PRODUCTS.



# NETWORKHD™ 600

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

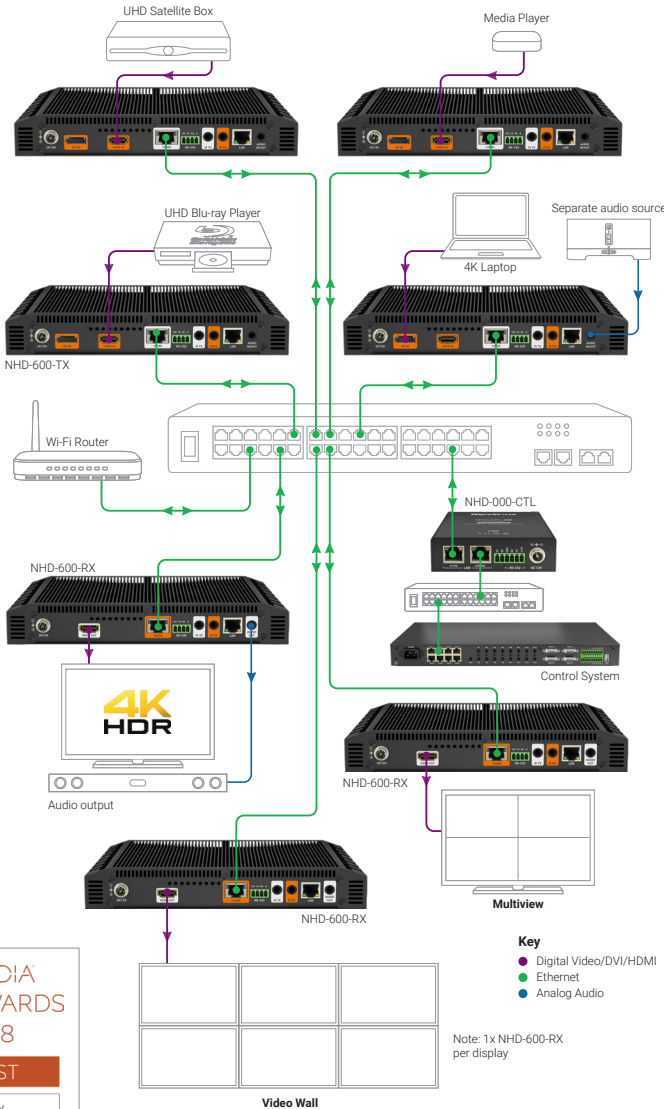
### SUITABLE APPLICATIONS



WyreStorm written drivers available for major control systems:



# NETWORKHD™



NHD-600-TX  
NHD-600-RX

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

2160p  
4:4:4 60



### 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



2160p  
4:4:4 60



### 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 NetworkHD encoders and decoders
- Simple, single screen browser configuration of encoder and decoder settings
- Integrates with major control systems, including the free NetworkHD Touch™ iPad control app
- Dual Ethernet ports for complete isolation of control and AV network traffic
- Optional PoE power



### 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

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



# NETWORKHD™ 400

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 only 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

 **HOSPITALITY**

 **EDUCATION**

 **RESIDENTIAL**

 **CORPORATE**

 **RETAIL**

 **VENUES**

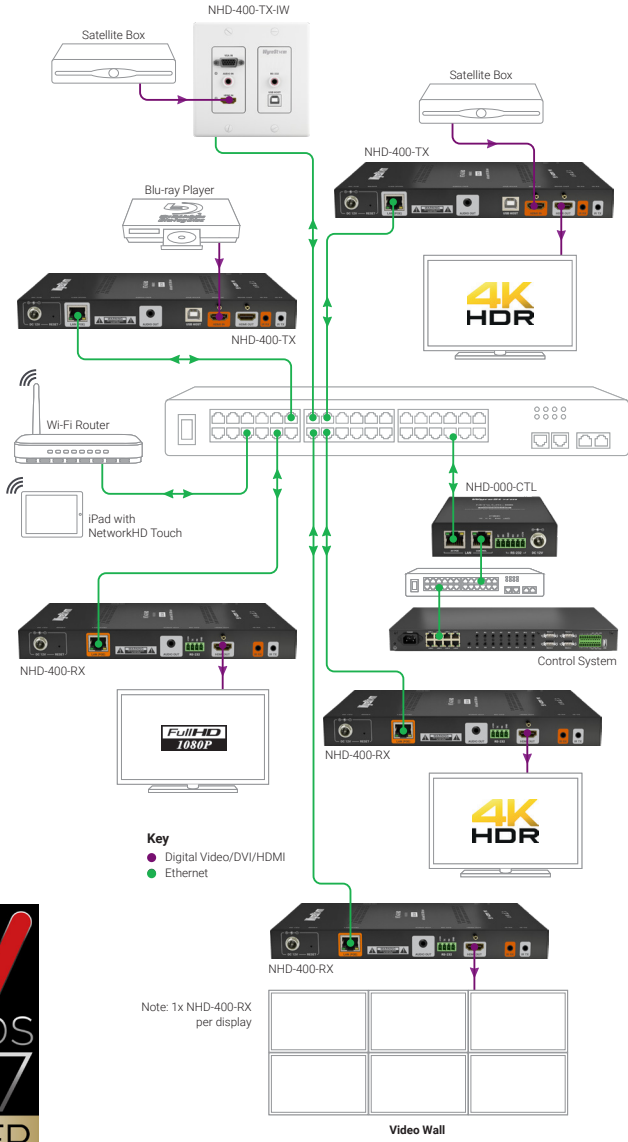
 **R.T.O.C**



WyreStorm written drivers available for major control systems:



# NETWORK HD™



NHD-400-TX

NHD-400-RX



### NetworkHD™ 400 Series 4K AV over IP JPEG 2000 Encoder/Decoder

#### NHD-400-TX | NHD-400-RX

- Stunning visually lossless 4K UHD video with HDR and multi-channel audio up to DTS:X and Dolby Atmos
- Ultra low, single frame latency
- 4K/1080p image scaling for mixed resolution installs
- NetworkHD Touch™ iPad control app for live source previews and drag and drop source selection
- Breakaway, independent routing of all video, audio, IR, USB and RS-232 streams
- Powerful video wall processing supporting mosaic or standard video wall configurations
- USB passthrough, CEC display control and bidirectional IR control of connected devices



### NetworkHD™ 400 Series 4K AV over IP JPEG 2000 Encoder/Decoder

#### NHD-400-E-TX | NHD-400-E-RX

- Type E devices provide the 400 Series core features while keeping cost at a minimum
- Stunning visually lossless 4K UHD video distribution with HDR and multi-channel audio support
- Ultra-low, single frame latency
- NetworkHD Touch™ iPad control app for live video previews with Drag & Drop source selection
- Video and Audio breakaway allows separate routing for media streams
- Build scalable A/V distribution systems based on reliable and mature network standards
- Use with 400 Series decoders to support video walls up to 16x16 displays



### ONE PER SYSTEM



### Controller for NetworkHD™ Systems

#### NHD-000-CTL



### NetworkHD™ 400 Series 4K AV over IP JPEG 2000 Encoder with Dante

#### NHD-400-DNT-TX

- Integrated 2-channel Dante encoder for independent audio streaming with AES67 support
- Stunning visually lossless 4K UHD video distribution with HDR and multi-channel audio support
- Ultra-low, single frame latency
- NetworkHD Touch™ iPad control app for live video previews with Drag and drop source selection
- Video, Audio, USB and Infrared breakaway allows separate routing for media streams
- Custom Infrared and RS-232 control of video sources
- Use with 400 Series decoders to support video walls up to 16x16 displays



### 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 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 and RS-232 control of connected devices



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



# NETWORKHD™ 300

## NetworkHD™ 300 Series AV over IP H.264 Open Standards Streaming Encoder

### NHD-300-TX

The NHD-300-TX open standards encoder offers HDMI source video streaming that can be configured to multitude of transport standards for open compatibility with H.264 stream players, recorders and video servers. Featuring multiple output channel encoding and adjustable stream properties the 300 Series is the ideal AV over IP solution for flexible video stream integrations.

- Open standard H.264 video encoding with configurable stream parameters
- Supports HTTP, RTSP, RTP, RTMP, HLS, UDP, Multicast, Unicast streaming
- Up to 1080p resolution with configurable EDID and output scaling
- Multiple simultaneous encoded outputs using different stream formats
- HDMI passthrough for in-line applications and optional analog audio embedding
- Compatible with online live streaming services
- Rack mount options include NHD-000-RACK4 and NHD-140-RACK-1U

HDMI™ PoE



# NETWORKHD TOUCH

## A FREE, PRECONFIGURED AND POWERFULLY SIMPLE CONTROL INTERFACE FOR NETWORKHD AV OVER IP PRODUCTS.

A revolution in touchscreen control, the award-winning free NetworkHD Touch™ app for iPad puts entire NetworkHD AV over IP systems at your fingertips for both single screen and video wall applications.

An app like no other, NetworkHD Touch is made for iPad with no training required and zero learning curve for users to negotiate. The result is an unrivalled user experience and effortless AV control using a device and gestures users already know, making it ideal for applications as varied as hospitality, retail, exhibition and more.

MATRIX SWITCHING, VIDEO WALLS & MULTIVIEW

THE BEST AV CONTROL SOLUTION... PERIOD

MULTI-ZONE DEMONSTRATION MODE

CUSTOM, ON THE FLY MULTIVIEW LAYOUTS

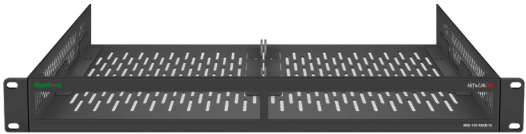
PRESETS AND DISPLAY CONTROL



SCAN QR CODE TO DOWNLOAD THE NETWORKHD TOUCH APP TO YOUR APPLE IPAD DEVICE



## RACK MOUNTING SOLUTIONS: 3 OPTIONS FOR MOUNTING NETWORKHD AND PRO AV DEVICES



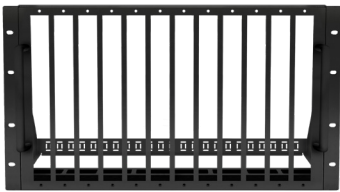
1U/2 Slot Rack Mount for NetworkHD™ NHD-140-TX NHD-140-RACK-1U

- Specifically designed to mount one or two NHD-140-TX, NHD-300 Series or CON-H2-DD-EARC side-by-side
- 1U height and shallow depth allows for high encoder density in an AV or IT equipment rack
- Encoders can be mounted with connections front or rear facing to suit alternative cable management designs
- Provides optimal thermal dissipation in a passively or actively cooled rack design to maintain premium device performance and MTBF
- Enables systems to be pre-built into the rack kit prior to arriving on site to improve speed and efficiency of installation
- Sturdy all-steel design creates a solid structure for supporting NetworkHD NHD-140-TX Quad Encoders
- Includes 4x mounting brackets, 1x blanking plate and screws



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



6U/12 Slot Rack Mount for NetworkHD™ 100/200/300/400 Series NHD-000-RACK4

- Supports NetworkHD 100, 200, 300 and 400 Series and NHD-000-CTL Controller
- 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™ 100/200

Low bandwidth HD over 1GbE with videowall and multiview processing using H.264/H.265 technology

The NetworkHD™ 100/200 Series utilizes low bandwidth, infinitely scalable H.264/H.265 technology with the addition of powerful video wall support up to 16x16 for the best all-round solution for commercial AV installations.

A 100 Series encoder can either be paired with a 100 Series decoder for matrix switching to individual screens or for video wall decoding, with both decoders including HDMI and analog audio breakout outputs, or an NHD-250-RX decoder for multiview monitoring.

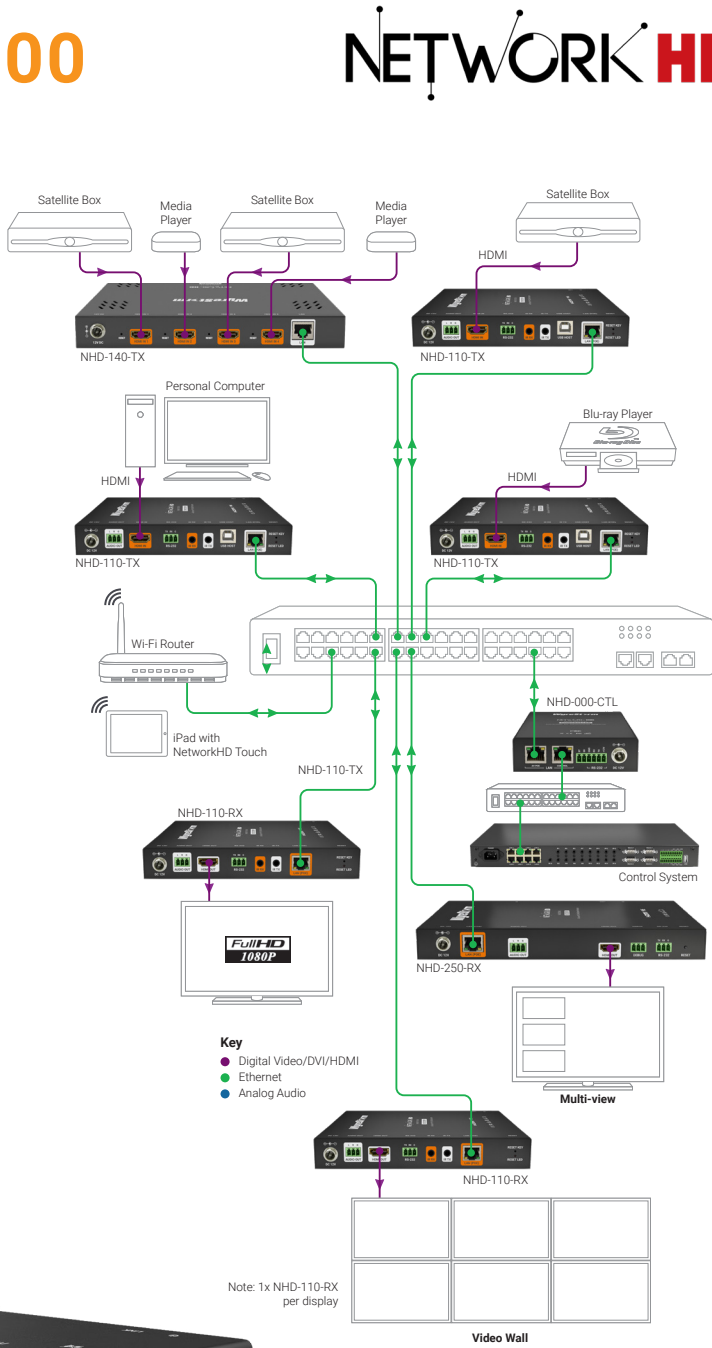
FEATURES

- H.264/H.265 platform offering highly scalable low-bandwidth HD over IP distribution
- Matrix switching functionality with NHD-110-RX decoder
- Video wall processing functionality up to 16x16 screens with NHD-110-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/H.265/MPEG-4 AVC video compression

SUITABLE APPLICATIONS



WyreStorm written drivers available for major control systems:



NHD-110-TX

NHD-110-RX

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

**NetworkHD™ 1080p HD Low Bandwidth H.264/H.265 AV over IP Encoder**  
**NHD-110-TX**

- Transmits AV streams up to 1080p 60Hz using H.264 or H.265 encoding
- AV streams can be encrypted using an AES 128-bit algorithm
- Supports either Unicast or Multicast network streaming methods
- Powers via PoE from compatible network switch using 802.1af
- Live video preview streams for use with NetworkHD Touch iPad app or a custom control UI
- Analog audio de-embed for easy connection to external audio DSP or amplifier

**NetworkHD™ 1080p HD Low Bandwidth H.264/H.265 AV over IP Encoder**  
**NHD-110-RX**

- Powerful video wall processing supporting mosaic or standard video wall configurations
- Flexible control options including IR, serial, or CEC control of peripheral equipment
- Image scaling ensures compatibility with mixed resolution displays
- Seamless video switching between sources with no black screens or freeze frames
- Powers via PoE from compatible network switch using 802.1af
- Analog audio de-embed for easy connection to external audio DSP or amplifier

**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

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

**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 the free NetworkHD Touch™ iPad control app
- Dual Ethernet ports for complete isolation of control and AV network traffic
- Optional PoE power

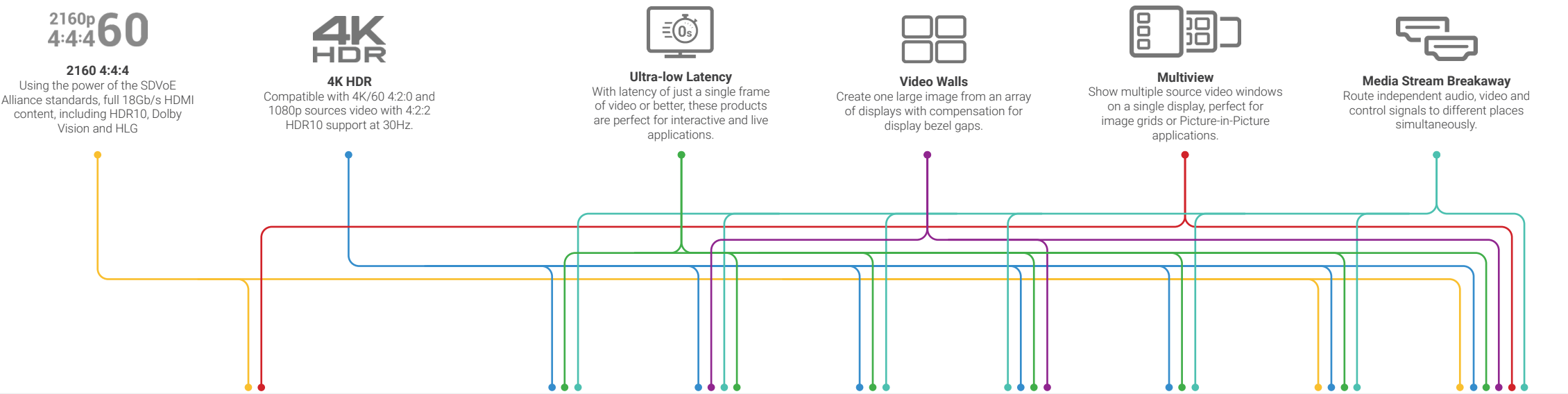
**NetworkHD™ 100 Series AV over IP H.264 Quad Encoder**  
**NHD-140-TX**

- 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 and other leading control systems

**1U/2 Slot Rack Mount for NetworkHD™ NHD-140-TX**  
**NHD-140-RACK-1U**

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

# WHAT IS THE RIGHT SOLUTION FOR YOUR INSTALL?



	NHD-110-TX	NHD-110-RX	NHD-140-TX	NHD-250-RX	NHD-300-TX	NHD-400-E-TX	NHD-400-E-RX	NHD-400-TX	NHD-400-RX	NHD-400-DNT-TX	NHD-600-TX	NHD-600-RX
Max. Resolution	1920x1200 (1080p)	1920x1200 (1080p)	1920x1200 (1080p)	3840x2160 (4K)	1920x1200 (1080p)	4K UHD	4K UHD	4K UHD	4K UHD	4K UHD	4K UHD/DCI	4K UHD/DCI
Compression Codec	H.264/H.265	H.264/H.265	H.264	H.264/H.265	H.264	JPEG 2000	JPEG 2000	JPEG 2000	JPEG 2000	JPEG 2000	SDVoE	SDVoE
Max. 4K Timing	×	×	×	60fps 4:2:0 (Scaled 4K resolution when in quad-view only)	×	60fps 4:2:0	60fps 4:2:0	60fps 4:2:0	60fps 4:2:0	60fps 4:2:0	60fps 4:4:4	60fps 4:4:4
Multichannel Audio	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓
Min. Latency	250ms (High Quality Mode) 60ms (Low Latency Mode)	250ms (High Quality Mode) 60ms (Low Latency Mode)	250ms (High Quality Mode) 60ms (Low Latency Mode)	250ms (High Quality Mode) 60ms (Low Latency Mode)	RTP, RTSP: ~500ms HTTP: ~1.5s	16ms 60fps	16ms 60fps	16ms 60fps	16ms 60fps	16ms 60fps	0ms (Genlock)	0ms (Genlock)
PoE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×
Video Wall	NA	✓	NA	×	×	NA	✓	NA	✓	NA	NA	✓
Mosaic Video Walls	NA	✓	×	×	×	NA	✓	NA	✓	×	×	×
Bezel Gap Correction	NA	✓	NA	×	×	NA	✓	NA	✓	NA	NA	✓
Image Rotation	×	×	×	×	×	×	✓	×	✓	×	×	✓
Bandwidth Control	✓	✓	✓	✓	×	×	×	×	×	×	✓	✓
CEC	×	✓	×	✓	×	×	✓	×	✓	×	×	✓
HDMI Passthrough	×	×	×	×	✓	×	×	✓	×	✓	×	×
HDR	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓
Instant Switching	✓	✓	✓	✓	NA	×	×	×	×	×	✓	✓
Max. Video Wall Size	NA	16x16	NA	NA	NA	NA	16x16	NA	16x16	NA	NA	8x8
Multiview	Compatible with NHD-250-RX	×	Compatible with NHD-250-RX	✓	×	×	×	×	×	×	×	✓
Network Type	1Gb Multicast	1Gb Multicast	1Gb Multicast	1Gb Multicast	1Gb Multicast/Unicast	1Gb Multicast	1Gb Multicast	1Gb Multicast	1Gb Multicast	1Gb Multicast	10Gb Multicast	10Gb Multicast
Peak Bandwidth	30 Mb/s	30 Mb/s	120 Mb/s	270 Mb/s	12 Mb/s	850 Mb/s	850 Mb/s	850 Mb/s	850 Mb/s	850 Mb/s	10 Gb/s	10 Gb/s
Rack Mountable	✓ NHD-000-RACK4	✓ NHD-000-RACK4	✓ NHD-000-RACK4 NHD-140-RACK-1U	✓ NHD-000-RACK4	✓ NHD-000-RACK4 NHD-140-RACK-1U	✓ NHD-000-RACK4	✓ NHD-000-RACK4	✓ NHD-000-RACK4	✓ NHD-000-RACK4	✓ NHD-000-RACK4	✓ NHD-000-RACK3	✓ NHD-000-RACK3
Warranty (years)	5	5	5	5	5	5	5	5	5	5	5	5
Drivers	Crestron™, AMX™, RTI™, Control4™	Crestron™, AMX™, RTI™, Control4™	Crestron™, AMX™, RTI™, Control4™	Crestron™, AMX™, RTI™, Control4™	NA	Crestron™, AMX™, RTI™, Control4™	Crestron™, AMX™, RTI™, Control4™	Crestron™, AMX™, RTI™, Control4™	Crestron™, AMX™, RTI™, Control4™	Crestron™, AMX™, RTI™, Control4™	Crestron™, RTI™, Control4™	Crestron™, RTI™, Control4™



# COMMERCIAL CASE STUDY



## Global Market Courtroom

Abu Dhabi, UAE

**Abu Dhabi opens the “world’s first” digital courtroom, a new AV installation that could improve litigation efficiency.**

With a mission to create more streamlined judicial proceedings, the Abu Dhabi Global Market Courts (ADGM) has become a pillar of modernity. A paperless court in the UAE that abides by British law seems a paradoxical sight to behold but could this be the future of the courtroom?

Video distribution was a critical element of the install due to the various information available within courtroom processing that needs to be made available to every delegate/counsel as per their needs and role.

The digital courtroom was set up using the NetworkHD 400 Series, a modular video-over-IP distribution system from WyreStorm, which can connect any source over an open matrix. “We wanted to deploy HDMI-over-IP due to the amount of video distribution taking place. We had 27 desks in the courtroom, each with three screens, and 12 large-format displays that had content that could be controlled both by the control room operators and users working at the desks. Using a video-over-IP solution gave us the flexibility we needed to deliver the solution and will allow us to upgrade the courtroom over the coming years. The solid performance of the WyreStorm encoders also made it an easy selection,” explains Richard Page, head of technical projects at Opus 2.

**Client:** Abu Dhabi Global Market Courts  
**Completion Date:** 2019  
**Product Installed:** NetworkHD 400 Series



# COMMERCIAL CASE STUDY



## London Metropolitan University

London, England

**London Metropolitan University’s ‘Superlab’ Made Truly Exceptional with NetworkHD 400 Series 4K over IP.**

London Metropolitan University came in to existence in 2002, with the merger of the University of North London and the London Guildhall University. In 2006, as part of an ambitious programme to make the institution the leading choice for science students, London Met invested more than £30 million developing a state-of-the-art Science Centre.

At the time, the ‘Superlab’ as it has become known, achieved a host of firsts. It was the first open plan laboratory that offered the whole range of science to be carried out simultaneously at 280 work stations, the first educational lab to use advanced AV technology and was one of only two university labs to achieve a BREEAM excellent rating. This 800m2 space thus offers exceptional teaching and research facilities and remains the largest, most advanced science teaching facility in Europe.

WyreStorm has rapidly become a leader in AV over IP technologies with its NetworkHD line offering. Reflex duly designed a NetworkHD AV over IP scheme for the Superlab and then in conjunction with WyreStorm, set about extensive testing to ensure that the existing Cat5 infrastructure would be able to handle the planned installation. 12x WyreStorm NetworkHD NHD-400-TX encoders were installed to carry 4K HDMI signals to 268x WyreStorm NHD-400-RX decoders.

**Client:** London Metropolitan University  
**Completion Date:** 2018  
**Product Installed:** NetworkHD 400 Series





# WYRESTORM GOES GREEN

Since April 2018, WyreStorm has been reducing the environmental impact of its products by removing single use plastics (SUP) from packaging whenever possible.

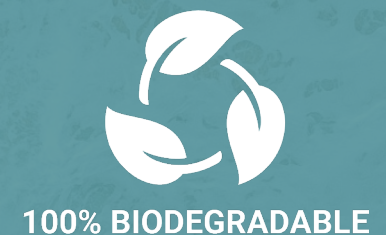
Over the past eighteen months, WyreStorm has saved roughly 2.5 tons of SUP from being produced and ending up in a landfill. By not producing roughly 2.5 tons of SUP, WyreStorm has also prevented about 110,000 gallons (~416,395 litres) of water from being used in plastics production.

In place of SUP, WyreStorm now uses plain, recyclable cardboard in 30% of its product line packaging, including high-volume products such as extenders/receivers, hybrid AOC cables and NetworkHD. Furthermore, WyreStorm is stopping the use of plastic spools in its high-volume HAOC products and are instead using a plain cardboard spool that, with the box, can be put straight into the recycling bin.

Additionally, WyreStorm is moving to replace all of the acrylic packing tape with Kraft packing tape in all of shipments out of the UK/EMEA. This tape is biodegradable and 100% recyclable, which makes it a perfect environmentally friendly alternative to standard packing tape.

The Essentials™ product range is also going eco-friendly. By continuing to use recyclable cardboard for most of its units, and now using bagged items made from biodegradable plastic, WyreStorm is actively looking for packaging solutions that do not include single use plastics for the rest of its product line. The ultimate goal is to be 100% single use plastics free in all of its packaging.

WyreStorm will be featuring the following graphics on every package that is 100% single use plastics free or use biodegradable plastic packaging.





# H2XC SERIES: MATRIX SWITCHING EVOLVED

## 18GBPS DISTRIBUTION OVER COPPER & FIBER


The only 18Gbps matrix platform offering multi-point distribution over HDBT & Fiber 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 cards, including 18Gbps HDMI inputs and mirrored outputs, HDBaseT input for decentralized source connection, and lossless compression supporting 4K/60 4:4:4 or 4K/60 4:2:2 12-bit HDR content over both HDBaseT and OM3 multimode fiber.




### MODULAR FUNCTIONALITY

There's no "One Size Fits All" approach to AV, and we've always believed in offering the customer true modularity. H2X is now the only multi-I/O audio visual matrix device available that can deliver full-bandwidth 18Gbps HDMI content over both copper and optical transmission mediums, while handling up to 48 discrete audio source devices to 16 DSP-managed audio zones.



### 18GBPS BACKPLANE

The highest possible bandwidth that currently exists according to the HDMI 2.0 specification can be managed by the H2X and sent over distance. Newly emerging 60Hz HDR-10 & Dolby Vision content can also be handled by this powerful future-ready device.



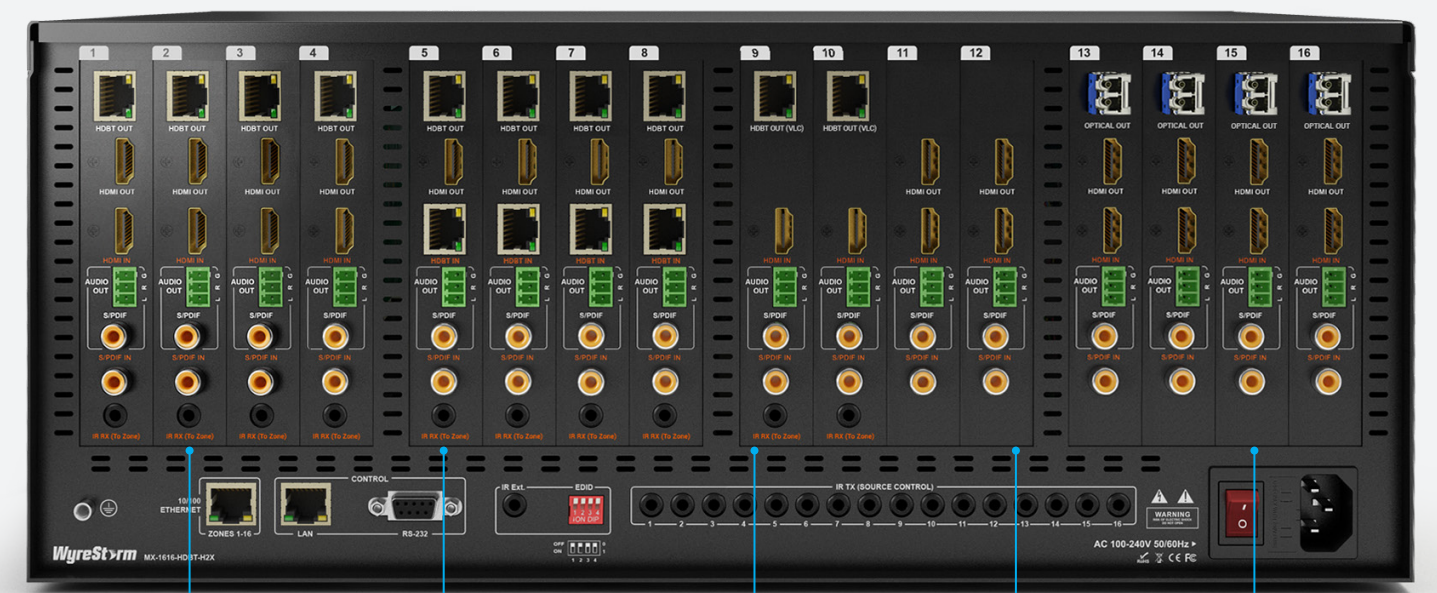
### REMOTE SOURCES

We appreciate that it's not always possible to centralize all source devices. Game consoles and Blu-ray players are often required to remain within reach and not be tucked away in a rack; the remote input card allows sources to remain accessible. Using a compatible PoH transmitter, Ethernet and control signals can be sent from the matrix, ensuring sources remain part of the matrix, network and control infrastructure.



### AUDIO DSP

No two rooms or even installations are the same. That's why we've coupled to each audio zone output a powerful audio DSP. This allows an integrator to have complete control over the audio configuration with volume & muting control, a 10-band EQ and variable delay, which can be set per zone for a truly customized room-by-room balance.



4K HDR with Extensive Audio Options  
TX-H2X-HDMI

Decentralize Your Sources  
TX-H2X-HDBT

Visually Lossless 4K/60 4:4:4 Over HDBT  
TX-H2X-VLC

Zoned Audio Expansion with 18Gbps HDMI I/O  
TX-H2X-ADZ

4K/60 4:4:4 Goes Further with Fiber  
TX-H2X-OM3

INPUT	OUTPUT
up to 16	up to 16+16



2160p  
4:4:4 60

### 16x16 Modular 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

4K HDR

HDBT

HDCP 2.2

PoH

ARC

INPUT	OUTPUT
up to 10	up to 10+10



2160p  
4:4:4 60

### 10x10 Modular 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

4K HDR


HDBT

HDCP 2.2

PoH

ARC


### 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.




### 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




### 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




### Zoned Audio Expansion with 18Gbps HDMI I/O

**TX-H2X-ADZ**

Offering both an HDMI input & output, the ADZ card provides an 18Gbps link direct to the matrix backplane. Supporting both 2160p 4:4:4 8-bit & HDR content and multi-channel audio formats up to Dolby Atmos, it offers the ability to use native HDMI connectivity without the need for a transmission port (reducing cost) and maintains an audio DSP output. It is the perfect partner for WyreStorm's range of hybrid optical Fiber HDMI cables.

2160p  
4:4:4 60



### Decentralize Your Sources

**TX-H2X-HDBT**

HDBaseT input/output card offers decentralized source connection enabling devices to be kept in-situ while 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.









2160p  
4:4:460

**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





2160p  
4:4:460

**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







# WyreStorm Case Studies

These case studies are great examples of how we help our customers get the best out of their AV systems, from small residential homes to large scale commercials applications.

VIEW CASE STUDIES




2160p  
4:4:460

**4K UHD HDBaseT™ Scaling Receiver, with Downscaling, Dual Ethernet Ports and ARC (4K: 70m/230ft | 1080p: 100m/328ft)**

**RX-70-4K-SCL**

- Scales content to match the capability of connected display device
- 4K UHD content @60Hz 4:2:0 scaled to as low as 576P
- Up-scales any incoming content to 4K/60 4:4:4 8-Bit
- Sends ARC via HDMI along HDBaseT
- Analog & S/PDIF output enables de-embedding of audio to send to local audio system
- Resolves issue with mixing 4K & 2K screens in an installation by down-scaling UHD 4K content to 1080p/720p





2160p  
4:4:460

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

**RX-70-4K-ARC**

- Class A HDBaseT 4K Receiver capable of receiving HDMI transmissions over a single cable Cat5e/6 cable with support for ARC or optical audio return
- Multichannel audio supports 7.1 DTS Master HD and Dolby True HD
- HDCP 2.2 compliant
- PoH (Power-over-HDBaseT) enables the receiver to be remotely powered from the a compatible transmission device for flexible installation options





2160p  
4:4:460

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

**RX-70-4K**

- Robust Class A HDBaseT technology for stable 4K/HD distribution and control resistant to electrostatic and environmental interference
- Distribution of video (4K & 1080p), multichannel audio, bidirectional IR, PoH and 10/100 Ethernet over single Cat5e/6
- 2-way PoH (Power over HDBaseT) – Receiver draws power from matrix so no local power required at display location
- HDMI v2.0 with HDCP 2.2





2160p  
4:4:460

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

**RX-35-POH**

- Receives 4K UHD HDBaseT transmissions up to 35m/115ft
- Compatible with 4K HDR source content
- Compatible with HDCP 2.2 protected content
- 2-way PoH enabled for convenient PSU-free installation
- RS-232 and IR passthrough for control of peripheral equipment





# MXV SERIES: 6 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 today's source content. Offering 18Gbps HDMI transmission by pairing HDBaseT with WyreStorm's powerful lossless "VLC" compression algorithm, the MXV range uses a light compress/decompress technique to maintain signal integrity, leaving behind competing compression methods such as Color Space Compression which permanently remove color data.

Shared features of the 6 models crucially include the ability to handle both 4K/60 HDR and 8-bit 4:4:4 content to all zones and have assignable audio breakouts for each HDBaseT zone or source; most models also feature mirrored HDMI outputs to feed additional screens. With ease of installation at their heart, the powerful range of MXV matrices ensure just that and offer new innovative features such as the ability to switch any zone "off" using AV Mute and standby mode which can put the unit into a low power state when not in use, cutting power consumption by up to 34%.

2160p  
4:4:460

SIGNAL INTEGRITY FROM SOURCE TO DISPLAY

Fact: Not all signal compression is the same. The MXV range can transmit 18Gbps HDMI content over conventional HDBaseT. We achieve this using our VLC (Variable Lossless Compression) technology which adds light compression at the point of transmission and re-builds the signal at the receiver without any visual degradation or artefacting.

18Gbps

HDMI 2.0 MAXED OUT!

Sporting an 18Gbps HDMI backplane and lossless compression, every model in the MXV range can support all UHD video signals up to and including 2160p 4:4:4/60 or high frame-rate HDR at 12bit 4:2:2 up to 60Hz, along with multichannel audio up to DTS:X and Dolby Atmos.

DE-EMBEDDED AUDIO

With audio functionality to match its video capability, the MXV range has the ability to extract the audio signals from a source device or from an output, following the zone. Having S/PDIF connectivity means having the flexibility to send multi-channel 5.1 audio to local AVR's or downmix to stereo using the EXP-CON-DAC-D.

MIRRORED HDMI OUTPUTS

In addition to the HDBaseT zone outputs, most models in the MXV range also feature HDMI output ports which mirror HDBaseT zones 1-4. They can be paired with any of WyreStorm's HAOC hybrid optical HDMI cables for transmission up to 50m/164ft or any extender for transmission over HDBaseT to 100m/328ft or even OM3 fiber up to 300m/984ft.

Extensive EDID Management

Via the embedded WebUI, an installer has access to full EDID management offering read, copy, store & import functions and even assign a different EDID to each connected source device.

CEC Triggering

Working automatically on signal presence or triggered via the API, the MXV range can send power trigger commands to all compatible connected screens or projectors meaning an integrated autonomous control solution.

Powerful Input Connectivity

HDMI Inputs and HDMI outputs support bandwidths of up to 18Gbps with content at RGB/4:4:4 or chroma-sampled up to 4:2:2 12-bit. Inputs are compatible with DVI-I and DP++ v1.3 signals from compatible source devices.

A/V Mute Function Cuts Output Feeds

A useful feature across many applications, the A/V mute function is another switching option meaning a source doesn't have to be selected. It enables the matrix to stop sending the signal to an output with a simple API command.

INPUT OUTPUT  
8 8+4

70M 2160p 4:4:460

8x8 4K HDR HDBaseT Matrix with 4 Mirrored HDMI outputs and audio breakout (4K: 70m/230ft | 1080p: 100m/328ft)

MXV-0808-H2A-70

- HDBaseT transmission of 4K/60 4:4:4 up to 70m/230ft 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

4K HDR CHDBT HDCP 2.3 PoH Dolby Vision

INPUT OUTPUT  
8 8+4

2160p 4:4:460

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/115ft 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

4K HDR CHDBT HDCP 2.3 PoH Dolby Vision

INPUT OUTPUT  
6 6+4

70M 2160p 4:4:460

6x6 4K HDR HDBaseT Matrix with 4 Mirrored HDMI outputs and audio breakout (4K: 70m/230ft | 1080p: 100m/328ft)

MXV-0606-H2A-70

- HDBaseT transmission of 4K/60 4:4:4 up to 70m/230ft 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

4K HDR CHDBT HDCP 2.3 PoH Dolby Vision

INPUT OUTPUT  
6 6+4

2160p 4:4:460

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/115ft 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

4K HDR CHDBT HDCP 2.3 PoH Dolby Vision

SEE OUR 4X4 MXV-KIT ON PAGE #30





# Scaling Receivers

The new SCL variants in the receiver family add a new level of compatibility to the MXV platform. With powerful built-in scaling, these devices can be installed where legacy 1080p screens or projectors are used as part of a larger 4K system deployment. Additionally, these powerful receivers can be used to breakout audio local to the display via 2ch analog for connection to stereo audio systems or a Toslink optical port which can be used to connect to a soundbar or AVR.



2160p  
4:4:4 60



4K HDR 4:4:4 60Hz HDBaseT™ Receiver with Scaling, HDR Conversion & 2ch/S/PDIF Audio Breakout & PoH (4K: 70m/230ft)

RXV-70-G2-SCL

- Uses WyreStorm's proprietary compression technology for lossless transmission of 4K HDR content, without latency
- Scales 4K source content to 1080p for non-UHD displays
- 4K UHD signals up to 70m/230ft and 2K signals up to 100m/328ft
- Supports HDMI2.0 video standard up to 18Gbps
- Compatible with HDR standards including HDR-10, HDR-10+, HLG
- Dolby Vision (Dolby Vision supported up to 30Hz)



4K HDR 4:4:4 60Hz HDBaseT™ Receiver with Scaling, HDR Conversion & 2ch/S/PDIF Audio Breakout & PoH (4K: 35m/115ft)

RXV-35-SCL

- Uses WyreStorm's proprietary compression technology for lossless transmission of 4K HDR content, without latency
- Scales 4K source content to 1080p for non-UHD displays
- 4K UHD signals up to 35m/115ft and 2K signals up to 70m/230ft
- Supports HDMI2.0 video standard up to 18Gbps
- Compatible with HDR standards including HDR-10, HDR-10+, HLG
- Dolby Vision (Dolby Vision supported up to 30Hz)



2160p  
4:4:4 60

4K HDR 4:4:4 60Hz HDBaseT™ Receiver for MXV H2A-70 matrix with Bidirectional IR, RS-232 & PoH (4K: 70m/230ft)

RXV-70-4K-G2

- Receives compressed 4K UHD HDBaseT transmissions up to 70m/230ft
- Compatible with the latest HDR sources including HDR-10, HLG and Dolby Vision
- Supports full bandwidth HDMI content up to 17.8Gbps
- Compatible with HDCP 2.3 protected content
- PoH enabled for convenient PSU-free installation



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 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 2.3 compliant

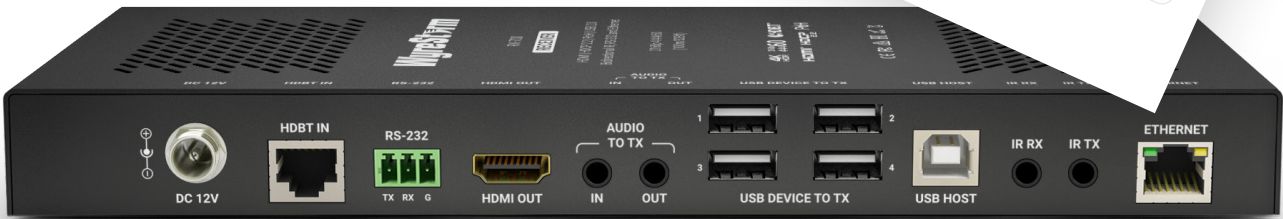


# Make Sure You Get the Full Package.

A little confused about what Matrix Switcher or Presentation product pairs with what Receiver? WyreStorm is here to help! We have put together an in-depth, easy to understand compatibility chart that helps you to create the perfect AV solution for any installation.

See all of the possible Receiver and HDBaseT Matrix Switcher/Presentation product combinations available.

Visit [wyrestorm.com](http://wyrestorm.com) to download.



WyreStorm Product Line Receiver Compatibility Chart





# H2A SERIES: A PERFECT HDMI SOLUTION FOR A NEXT GENERATION A/V EXPERIENCE

Compact and fully-featured, the MX-H2A matrix supports 18Gbps throughput to the full video capability of HDMI 2.0; it handles distribution of 4:4:4/60 and HDR, supporting the latest broadcast standards and next generation source content. Further features include assignable audio de-embed ports allowing audio signals up to 5.1 to be extracted from the source or from a zone output.

Always looking for important differentiators, WyreStorm has added additional useful functions such as A/V mute, to stop a signal being sent to a zone and given an autonomous edge by adding CEC power triggering for compatible connected screens. With 18Gbps transmission and native HDMI communication in mind, the MX-H2A range are the perfect match for WyreStorm's range of hybrid optical HDMI cables.

2160p  
4:4:460

HDMI 2.0 MAXED OUT!

Sporting an 18Gbps HDMI backplane, the MX-H2A range can support all UHD video signals up to and including 2160p 4:4:4/60, and high frame-rate HDR 12bit 4:2:2 up to 60Hz, along with multichannel audio up to DTS:X and Dolby Atmos.

CEC

CEC TRIGGERING

Working automatically on source signal presence or triggered via the API, the MX-H2A range can send power commands to all connected screens or projectors compatible with CEC meaning an integrated autonomous control solution.

DE-EMBEDDED AUDIO

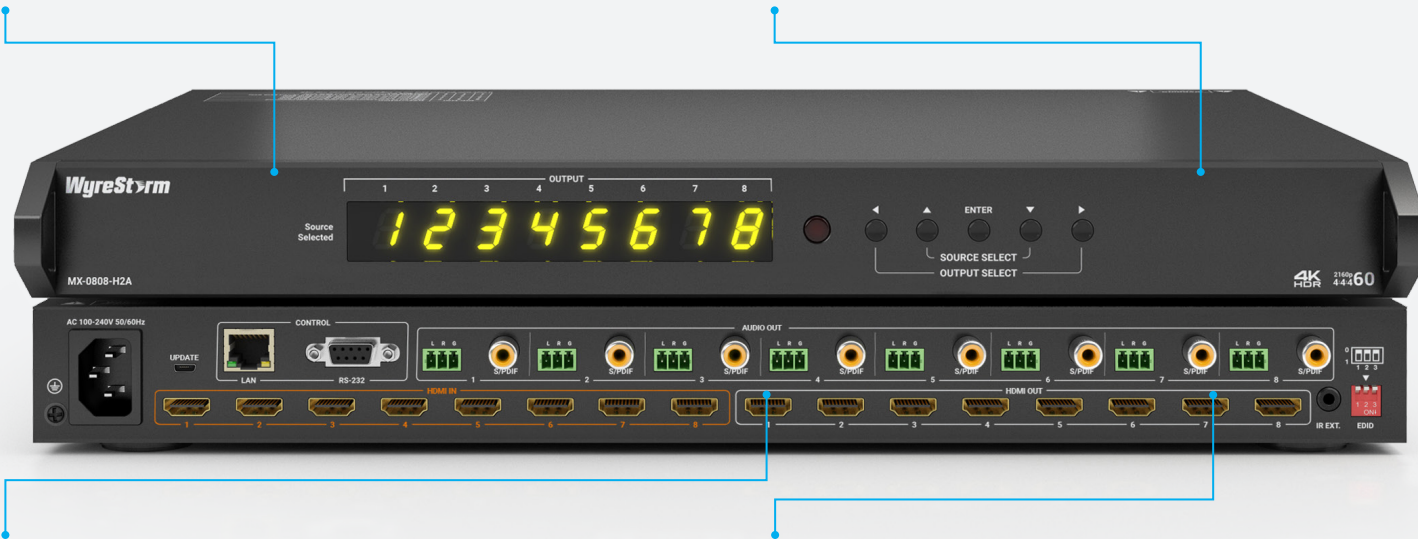
With audio functionality to match its video capability, the MX-H2A range has the ability to extract audio signals either from source devices or at the HDMI output, following the zone. Having S/PDIF and analog connectivity means having the flexibility to use multi-channel 5.1 or stereo audio signals.

A/V MUTE FUNCTION

Certain applications in the residential, education and commercial markets don't always require a source to be routed through to the output. The MX-H2A range makes it possible to "mute" the video output as well as the audio, meaning that the HDMI signals to the zones can be independently switched off via the API.

**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.

**Extensive EDID Management**  
Via the embedded WebUI, an installer has access to full EDID management offering read, copy, store & import functions and even assign a different EDID to each connected source device.



**Powerful Input Connectivity**  
HDMI Inputs and HDMI outputs support bandwidths of up to 18Gbps with content at RGB/4:4:4 or chroma-sampled up to 4:2:2 12-bit. Inputs are compatible with DVI-I and DP++ v1.3 signals from compatible source devices.

**Assignable Audio Outputs**  
Each S/PDIF output on the 4x4, 6x6 & 8x8 models are assignable, meaning that either source or zone audio can be routed to any output.

INPUT	OUTPUT
8	8

2160p  
4:4:460

**8x8 4K HDR HDMI Matrix with Assignable Audio Breakouts**  
**MX-0808-H2A**

- 8x8 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 Dolby Vision

INPUT	OUTPUT
6	6

2160p  
4:4:460

**6x6 4K HDR HDMI Matrix with Assignable Audio Breakouts**  
**MX-0606-H2A**

- 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 Dolby Vision

INPUT	OUTPUT
4	4

2160p  
4:4:460

**4x4 4K HDR HDMI Matrix with Audio Breakouts**  
**MX-0404-H2A**

- 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 Dolby Vision



## NEXT GENERATION CONTENT NEEDS NEXT GENERATION CONTENT DELIVERY

Experience a next generation HDMI cable specifically designed to be future-proof, supporting 4K and 5K HDR content. It offers a unique feature set in delivering uncompressed HDMI content up to 24Gbps and compatibility with emerging HDMI technologies such as ALLM (Auto Low Latency Mode) & VRR (Variable Refresh Rate) using the latest in optical transmission technology.

Supporting 4K/60 4:4:4 10-bit HDR with HDCP 2.2 for compatibility with the latest 4K UHD content, WyreStorm HAOC's also handle all multichannel audio formats and keep inter-device communication 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.



Digital Audio DAC with Downmix and S/PDIF Bypass  
**EXP-CON-DAC-D**



# MATRIX KITS: NEXT GENERATION

## A/V BUNDLED IN ONE KIT

WyreStorm's kit series is specifically tailored to meet the increased demands of 4K content & HDR, all in one box! Time is money and WyreStorm knows this as each kit is bundled with 4 slim form factor receivers, saving an extra step of pairing the matrix with its appropriate receiver. Each receiver included is PoH ready, eliminating the hassle of fitting an extra power supply at the display end, further saving time and aggravation.

Each kit lets you do even more with your audio with independent audio switching, allowing audio from sources or HDBaseT™ outputs to be de-embedded via S/PDIF and mirrored analog stereo RCA's. Furthermore, an additional mirrored output, coupled with one of WyreStorm's HAOC's, can extend the A/V signal to an AVR or an additional display.



### HDCP 2.2 COMPATIBLE

The industry's latest encryption standard designed to stop the illegal copying & distribution of 4K UHD content. WyreStorm matrix switchers are fully compliant with HDCP 2.2, enabling you to centralize source devices within an installation.

### KIT COMPLETE WITH RECEIVERS

With WyreStorm's matrix kits, there's no need to worry about whether you have everything you need for the job. Each kit comes with all the necessary accessories and receivers needed to get a project up and running all in one box! This also takes away the headache of choosing the correct receiver as each kit includes all 4 receivers.



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/115ft
- 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



### DE-EMBEDDED AUDIO

A first for a WyreStorm 4x4 matrix, the H2A-KIT has the ability to extract the audio signals from either source devices or from the HDBaseT™ output. Having S/PDIF and analog connectivity means having the flexibility to use multi-channel 5.1 or stereo audio signals.

### MIRRORED HDMI OUTPUTS

In addition to the audio breakout ports, the H2A-KIT also features a single HDMI output port which can be used to connect an AVR for zone 1 or - via a WyreStorm H2 extender - send a mirrored HDMI signal to a 5th screen.



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/115ft
- Dual S/PDIF and stereo RCA audio matrix outputs with mute
- 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



# INSTALLER TOOLS: SIGNAL MANAGEMENT

WyreStorm's range of installer tools are designed to both enhance and assist in the modern installation. Whether it's scaling content, triggering 3rd party devices on signal presence or downmixing 7.1 audio to stereo for connection to multi-room audio systems, WyreStorm has you covered.

COMING Q1 2021

### 4K/60 4:4:4 In-line HDMI scaler with DSP Controlled Audio Breakout, Dolby & DTS 7.1 Downmixing and eARC Output

#### CON-H2-DD-EARC

Part of the powerful range of signal management devices and converters, the CON-H2-DD-EARC comes feature packed, making it a must have tool for every install. Not only does this device downmix up to 7.1 Dolby or DTS audio formats to stereo, it also has next-generation compatibility. With support for eARC (enhanced Audio Return Channel), you can now send Dolby Atmos audio from smart TV apps back to an AVR and simultaneously downmix for multi-zone distribution. The in-line HDMI passthrough also features a scaling HDMI output to maximize compatibility with an older display. And, due to its compatibility with NetworkHD racks, you can easily mount and organize multiple CON-H2-DD-EARC's at a headend location for multi-zone downmixing.

- Audio de-embedding via S/PDIF or stereo RCA with Dolby & DTS 7.1 downmixing
- Re-embed downmixed stereo audio to HDMI
- Scales incoming 4K HDR content to 1080p
- Compatible with eARC content from a connected screen
- S/PDIF output switchable between pass-through and downmix



### 4K 4:4:4 60Hz In-Line HDMI Scaler with Audio Breakout

#### CON-H2-SCL

An essential tool when mixing 4K & 2K screens on the same distribution system, the CON-H2-SCL enables in-line scaling of HDMI content. An HDMI signal from a source device, DA or matrix is converted so it can be accepted by the connected display. Via a powerful scaling chip, 4K/60 4:4:4 or 4:2:0 can be down-scaled to as low as 480p; likewise, content can be up-scaled to 4K/60 4:4:4. Set up & configuration is done using a simple PC tool which is part of WyreStorm Management Suite V1.6. This software tool allows management of the scaling function and EDID via a simple interface.

- Scales any incoming HDMI content to as low as 800x600 or up to 4096x2160
- Compatible with incoming 18Gbps HDMI content up to 2160p 4:4:4/60
- Converts HDR content and removes metadata for compatibility with all displays
- Converts HDCP encryption to match that of a connected display or projector
- Optical audio output for de-embedded source audio (2ch PCM)
- Setup & configuration via simple PC configuration tool (WyreStorm Management Suite v1.6 or higher)
- USB-3-pin phoenix cable required for setup (not included). Use P/n CAB-USB-PX1



### HDMI In-line Signal Re-Clocker with EDID Management, Automatic or Manual CEC, Audio De-embed and Relay Triggering

#### CON-H2-EDID

A multi-purpose installer tool, the CON-H2-EDID can perform a variety of tasks within an install. As an in-line device it can act as an EDID manager to request specific content from a source or as an audio de-embedder, extracting HDMI source audio via the S/PDIF or stereo mini-jack ports. Additionally, it can be a micro zone controller, sending CEC and RS-232 power triggers to connected projectors or screens. And, from its two relay ports, it can trigger devices in the zone using signal presence logic.

- HDMI in & HDMI out with re-clocking and equalization (HDMI range extender)
- Breakout of source audio via mirrored S/PDIF and stereo mini-jack
- EDID manager with assignable presets, copy and import capability
- Assignable relays triggered on signal presence or via RS-232
- Automatic or manual CEC power triggering for screens or projectors
- USB-3-pin phoenix cable required for setup (not included). Use P/n CAB-USB-PX1





NEED HDMI, HDBASET OR FIBER MATRIX SWITCHING?  
WYRESTORM HAS YOU COVERED.

**4K UHD**

Ready for a world of 4K content, all of our matrix models are compatible with the latest 4K UHD at 4:2:0/60 as a minimum.

**ARC**

**Audio Matrix**

Supports up to 48 audio inputs (HDMI de-embed, S/PDIF In & ARC) to independent audio zones with DSP for volume control, delay and EQ adjustment.

**2160p 4:4:4 60**

**2160 4:4:4**

Our VLC chipset (Variable Lossless Compression) can send HDR or 4:4:4 content running at 60Hz over a regular HDBaseT link without loss in quality.

**Audio Breakout**

Extract audio signals either from connected source devices or at the output, following the zone.

**Standby Mode**

With eco-awareness in mind, these models can enter a low power state when not in use, cutting power consumption by up to 34%.

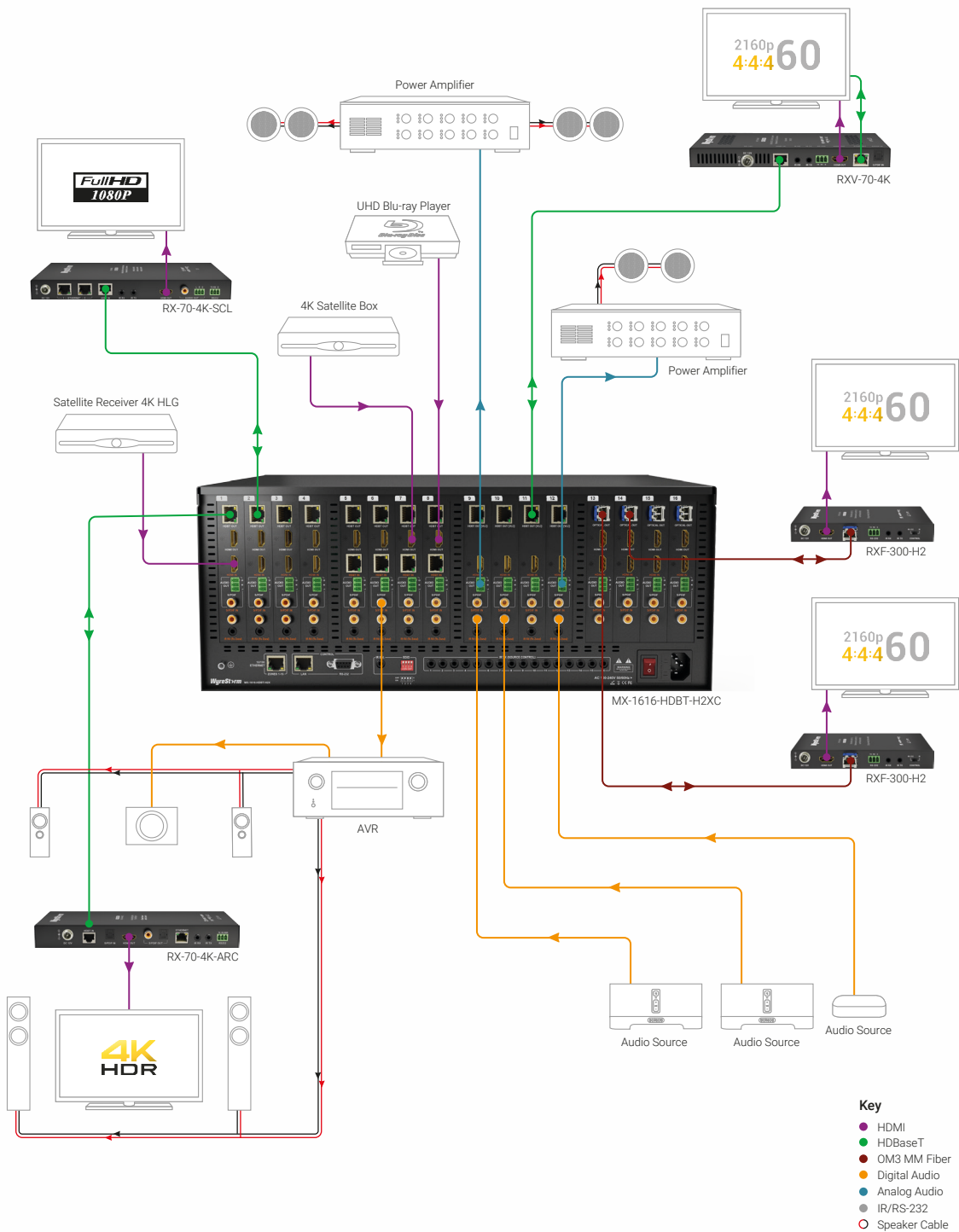
**Mirrored Outputs**

Mirrored outputs enable a range of options for adding additional screens via WyreStorm extenders or Active Optical Cables.

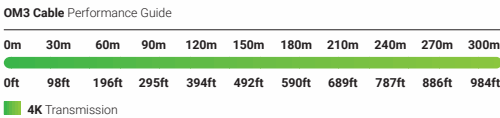
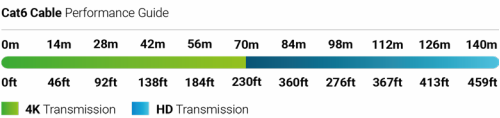
MX-H2A Series   H2A-KIT   MXV Series   MXV-70 Series   H2XC with HDMI Card   H2XC with HDBT Card   H2XC with VLC Card   H2XC with OM3 Card   H2XC with ADZ Card

Audio + Video									
Technology	HDMI	HDBaseT Class B	HDBaseT Class B	HDBaseT Class A	HDBaseT Class A	HDBaseT Class A	HDBaseT Class A	HDMI over MM Fiber	HDMI
HDCP	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1080p Distance	15m Copper HDMI*	70m/230ft	70m/230ft	100m/328ft	140m/459ft	140m/459ft	140m/459ft	300m/984ft	15m Copper HDMI*
4K Distance	7m Copper HDMI*	35m/115ft	35m/115ft	70m/230ft	100m/328ft	100m/328ft	100m/328ft	300m/984ft	7m Copper HDMI*
Max. Resolution	2160p@60 4:4:4	2160p@60 4:2:0	2160p@60 4:4:4	2160p@60 4:4:4	2160p@60 4:2:0	2160p@60 4:2:0	2160p@60 4:4:4	2160p@60 4:4:4	2160p@60 4:4:4
HDR Support	✓	✓ (30Hz)	✓	✓	✓ (30Hz)	✓ (30Hz)	✓	✓	✓
Zone Audio Breakout	✓	✓	✓	✓	✓	✓	✓	✓	✓
Source Audio Breakout	6x6 & 8x8 only	✓	✓	✓	✓	✓	✓	✓	✓
HDMI Mirrored Outputs	NA	✓	✓	✓	✓	✓	✗	✓	✓
ARC (Audio Return Channel)	✓	✗	✗	✗	✓	✓	✓	✗	✗
VLC Signal Compression	NA	✗	✓	✓	✗	✗	✓	✓	✗
Communication									
Ethernet to Zone	NA	✗	✗	✗	✓	✓	✓	✗	✗
Setup Via Web UI	✓	✓	✓	✓	✓	✓	✓	✓	✓
System Diagnostics	✗	✗	✗	✗	✓	✓	✓	✓	✓
Control									
IR (Bidirectional)	NA	✓	✓	✓	✓	✓	✓	✓	✗
API Generated RS-232 to Zone	NA	✗	✓ (Q1**)	✓ (Q1**)	✓	✓	✓	✓	✗
AV Mute for Outputs	✓	✗	✓	✓	✗	✗	✗	✗	✗
CEC Power Triggering	✓	✓	✓	✓	✓	✓	✓	✗	✓
Customized CEC Commands	✗	✗	(Q1**)	(Q1**)	✗	✗	✗	✗	✗
Power									
Standby Mode	✓	✗	✓	✓	✗	✗	✗	✗	✗
PoH	NA	✓	✓	✓	✓	✓	✓	NA	NA

Matrix Switcher Application



H2XC Series






# PRESENTATION SOLUTIONS: DYNAMIC SWITCHING, OUT OF SIGHT & OUT OF MIND

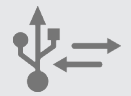
At WyreStorm, we believe that presenting content should be a passive experience; the equipment that you're connecting to should require as little interaction as possible so you can get on with business. We've designed our range of static and extending presentation switches to operate with automatic source switching at the heart of their operation. Additionally, some models now include CEC power triggering which can power a connected screen or projector on or off based on source presence.

It doesn't stop there though; most of the products in the presentation switcher range have the ability to trigger connected projector screens, lifts or blinds via their built-in relays, bringing both a degree of autonomy and cost saving to corporate or education installs. With 4K and HDCP2.2 compatibility thrown in for good measure, these powerful switchers will also handle most modern commercially available content, too.




### MULTI-INPUT SWITCHING

Bringing features of the H2 and PRO products into powerful meeting space solutions, WyreStorm has released a plethora of presentation switching solutions that feature multiple input formats such as HDMI, VGA, DisplayPort and USB-C. Supporting USB routing, device data can be fed back via the USB host or USB-C ports to a connected source.




### USB 2.0 PASS-THROUGH

HDBaseT2.0 affords the addition of USB 2.0 pass-through, offering not only KVM functionality for extension of a keyboard/mouse or touchscreen but also data transfer capabilities. Furthermore, the SW-740-TX allows automatic or manual switching of USB host between either the USB-B or USB-C ports allowing full flexibility of connected USB peripherals.



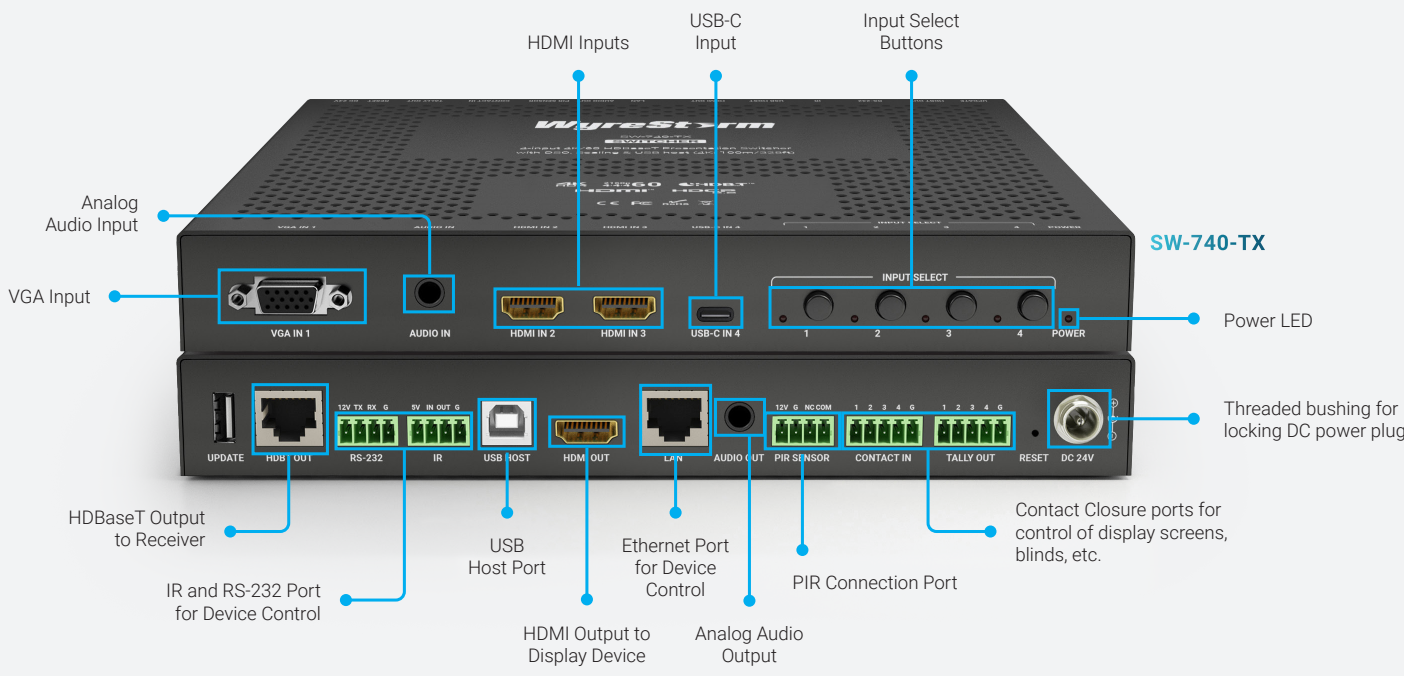
### DEVICE CHARGING

The USB-C connection provides up to 65-watt charging capability. Plus, using USB-C Alt-Mode allows the SW-740-TX to simultaneously transmit audio, video, data and power to your PC, Mac, smartphone or tablet through one convenient cable.




### PIR SENSOR

Connect an occupancy sensor to automatically trigger room activities such as turning on the display and switching an input all by just walking into a room.



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

INPUT	OUTPUT
4	1+1




2160p  
4:4:4 60


### 4-input 4K/60 HDBaseT Presentation Switcher with DSC, Scaling & USB host (4K: 100m/328ft)

**SW-740-TX**

- Supports 4K/60 4:4:4 content through HDMI ports
- 4 inputs: 2 HDMI, 1 VGA and 1 USB-C supporting alt-mode functionality
- USB-C device charging
- USB Host port for far-end device control (HDMI & VGA inputs)
- HDBaseT output with scaled mirrored output
- Audio output with volume control




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
- Compatible with 4K/60 4:2:0 sources and HDCP 2.2



INPUT	OUTPUT
4+2	1+1




AVAILABLE  
IN A KIT WITH  
SW-515-RX

### 4 Input 4K UHD Switching HDBaseT Transmitter with USB Host/Device

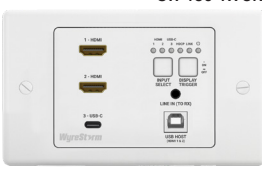
**SW-510-TX**

- Professional switching transmitter for education or corporate meeting rooms
- Automatic or manual switching between HDMI, VGA, DisplayPort and USB-C inputs
- Bidirectional USB2.0 for connection of webcams, smart touchscreens and microphones
- USB-C input supports Alt-mode functionality for AV and USB device connection through a single cable
- Automatic or manual CEC triggering for compatible connected screens or projectors
- Supports source content up to 4K/60 4:2:0 with HDCP 2.2





SW-130-TX-US



SW-130-TX-UK

### 3-Input In-wall HDBaseT Transmitter (2 HDMI, USB-C) with USB Host & CEC trigger

**SW-130-TX-US | SW-130-TX-UK**

- 2 HDMI and USB-C input with alt-mode functionality
- USB host for HDMI inputs for far-end device control
- Local CEC display trigger and source select
- Separate audio input to RX
- USB-C device charging (up to 5v 2A)
- Powered by PoH from RX-700 or local PSU









## 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 switchers/matrices
- Powered directly by compatible switchers or external PSU via power injection box
- User preference configurable
- Easy update via MicroSD



## 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
- 2-way PoH for maximum flexibility during install
- Can also be used with WyreStorm H2XC matrix or presentation switchers



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

- Robust Class A HDBaseT technology for stable 4K/HD distribution and control resistant to electrostatic and environmental interference
- Distribution of video (4K & 1080p), multichannel audio, bidirectional IR, PoH and 10/100 Ethernet over single Cat5e/6
- Multichannel audio supports 7.1 DTS Master HD and Dolby True HD
- 2-way PoH (Power over HDBaseT) – Receiver draws power from matrix so no local power required at display location
- HDMI v2.0 with HDCP 2.2



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

### RX-35-POH

- Receives 4K UHD HDBaseT transmissions up to 35m/115ft
- Compatible with 4K HDR source content
- Compatible with HDCP 2.2 protected content
- 2-way PoH enabled for convenient PSU-free installation
- RS-232 and IR passthrough for control of peripheral equipment



## 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!



## 4K HDR 4:4:4 60Hz HDBaseT2.0 Receiver with USB device inputs, Ethernet & PoH (4K: 100m/328ft)

### RX-700

- VESA recognised DSC compression technology enables extension of HDMI content up to 4K/60 4:4:4 or HDR 60Hz to 100m/328ft
- Bidirectional USB host/device connectivity offering data transfer capability of 190Mbps for connection of smart whiteboards, webcams or touchscreens
- Includes bidirectional analog audio lane separate to HDMI signal and 2-way PoH for flexible and convenient installation
- HDCP 2.2 compliant and compatible with the latest HDR standards, including HDR-10+, HLG content, with support for Dolby Vision™ up to 30Hz



INPUT	OUTPUT
4+2	1+1



AVAILABLE  
IN A KIT WITH  
SW-510-TX

## 3 Input 4K UHD Switching HDBaseT Receiver with USB Host/Device Ports & Dual Ethernet

### SW-515-RX

- HDBaseT receiver with switching inputs for education or corporate meeting rooms
- Automatic or manual switching between a remote HDBaseT source or 2 local HDMI's
- Bidirectional USB2.0 for connection of webcams, smart touchscreens and microphones
- Automatic or manual CEC triggering for compatible connected screens or projectors
- Condition based relays triggered on source presence
- Supports source content up to 4K/60 4:2:0 with HDCP 2.2







# OUR INNOVATION. YOUR COLLABORATION.

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. Plus on the 0401 model when HDBT2.0 is used, the result is powerful USB device extension, perfect for corporate meeting & video conference rooms.

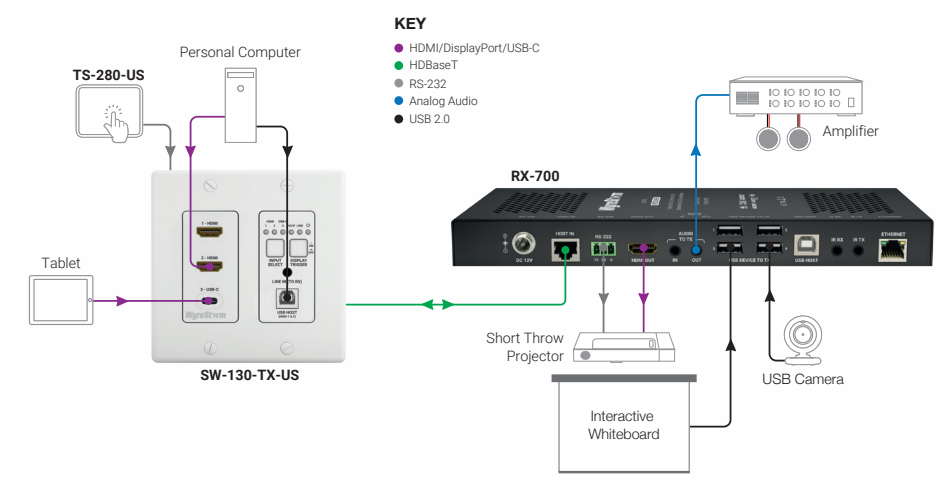
With the 0401, not only does the presentation video automatically get switched to the meeting room screen, the camera, mic and speaker from the room connect back to the soft codec of the laptop. Time saved, meeting started.

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

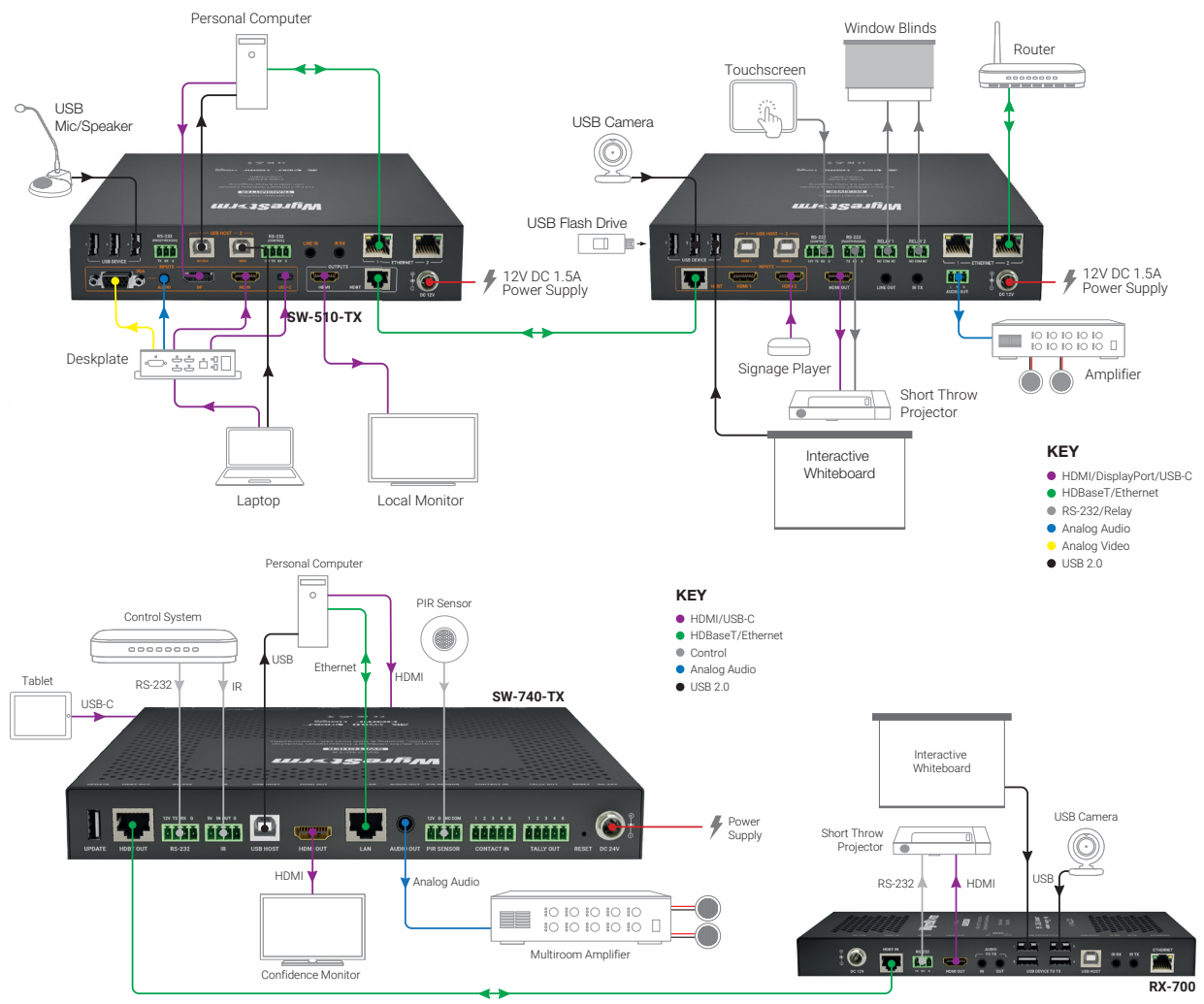


## Presentation Solutions Applications

### Auto Switching Extender for Small Meeting Rooms & Classrooms



### Auto Switching Extender Solutions for Presentation and Collaboration Spaces







## NEXT GENERATION CONTENT NEEDS NEXT GENERATION CONTENT DELIVERY

**Experience a next generation HDMI cable specifically designed to be future-proof, supporting 4K and 5K HDR content. It offers a unique feature set in delivering uncompressed HDMI content up to 24Gbps and compatibility with emerging HDMI technologies such as ALLM (Auto Low Latency Mode) & VRR (Variable Refresh Rate) using the latest in optical transmission technology.**

Supporting 4K/60 4:4:4 10-bit HDR with HDCP 2.3 for compatibility with the latest 4K UHD content, HAOC cables also handle all multichannel audio formats and keep inter-device communication 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 interference.

With install experience as important as transmission quality, all CAB-HAOC cables have Kevlar protected cores and come ready spooled with color-coded heads improving installation and giving peace of mind; 30m+ models offer a detachable RX head that can be easily fed through conduit or trunking.

The perfect accessory to any WyreStorm 4K UHD distribution and an absolute must for today's and tomorrow's AV projects that require rock-solid delivery of the latest 24Gbps HDMI content.



2160p  
4:4:4 60

## 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 big numbers to win favor among already bemused customers, WyreStorm does things a little differently and looks ahead. Ready not just for content available now but also emerging technologies of the future: 4K/60 content up to 24Gbps without chroma-sampling (10-bit 4:4:4), ALLM & VRR are all supported by our HAOC's.

While supporting the all-important buzz words such as HDCP 2.2, ARC and CEC (it is transparent communication, after all) we further concentrate on the things that others leave behind, namely build quality & reliability; plus being Fiber, it's more than capable of passing 24Gbps 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 to ensure its Kevlar protection would outperform those that attempt to produce something as good as a WyreStorm HAOC.

24Gbps Over Active Optical HDMI Cable  
**CAB-HAOC-10 | 15 | 20**  
(CL3/FT4 SAFETY APPROVED)

**SEE OUR ACTIVE OPTICAL  
CABLES STARTING AT JUST  
2M ON PG #46**

24Gbps Over Active Optical HDMI Cable  
with detachable RX head  
**CAB-HAOC-15-C | 20-C | 30-C | 40-C | 50-C**  
(CPR SAFETY APPROVED)  
**CAB-HAOC-15-P | 20-P | 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



# EXTENDER SOLUTIONS: AN EXTENSIVE RANGE OF SOLUTIONS FOR EVERY APPLICATION

WyreStorm continues to strive to be at the forefront of technology and meet consumer demands with the right product for the application, and our wide range of extenders are no exception. Boasting features such as 18Gbps transmission over a single cat6 cable or fiber, a mixture of USB, Ethernet, control and PoH, our extenders have been engineered in a way to fit the demands in an existing system, as well as feature rich enough to serve as a stand-alone.

With ease of installation at their heart, WyreStorm’s broad range of extenders ensure just that with their slim form factor design and plug and play setup. Coupled with an excellent build quality and warranty, WyreStorm’s extenders create the ultimate in staying power and longevity.

2160p  
4:4:460

SIGNAL INTEGRITY FROM SOURCE TO DISPLAY

Fact: Not all signal compression is the same. Most WyreStorm extenders can transmit 18Gbps HDMI content over conventionalHDBaseT. We achieve this using our VLC (Variable Lossless Compression) technology which adds light compression at the point of transmission and re-builds the signal at the receiver without any visual degradation or artefacting.

FIBER REVOLUTION

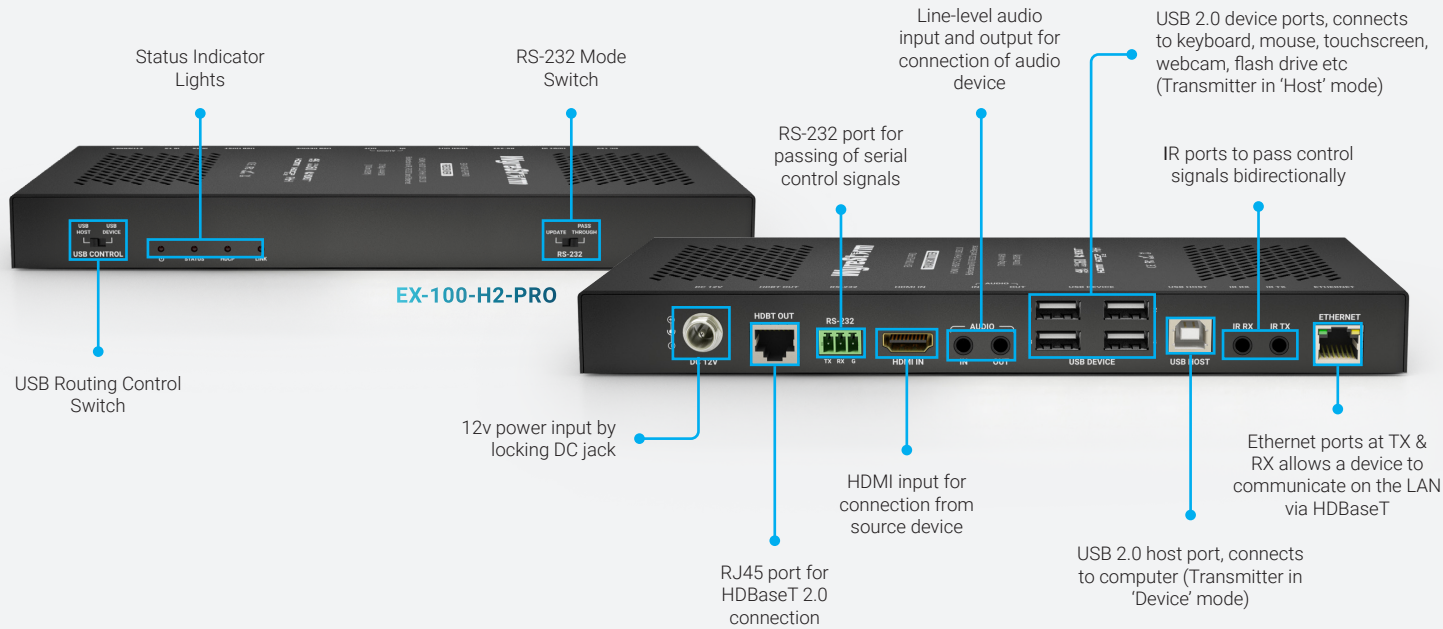
WyreStorm products featuring fiber currently include a multimode fiber transmission card for the modular H2XC matrix switcher and receiver, extender set supporting transmissions up to 300m/984ft, and our line of Active Optical HDMI cables spanning 10m, 15m, 20m and 30m distances.

ENHANCED AUDIO WITH ARC

Free the audio from the on-demand content on your smart TV. 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. This has benefits for the installer as it means additional AVR switching commands aren't required thanks to the transparent ARC communication.

FULL SPEED USB DATA TRANSFER

Increasing the auxiliary channel within the HDBaseT™ link means that 480Mbps USB 2.0 data can be sent bidirectionally, at the same time as 4K video, audio, control and Ethernet. Not restricted to simple HID's like keyboard and mice, HDBaseT™ 2.0 can handle full HD webcams, interactive white boards and even USB flash drives.



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

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
- 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  
4:4:460

**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, RS-232 and CEC

4K HDR CHDBT HDMI HDCP 2.2 PoH Dolby Vision

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

2160p  
4:4:460

**4K HDR HDBaseT Extender with 2-Way PoH and ARC (4K: 35m/115ft | 1080p: 70m/230ft)**  
**EX-35-H2-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 ARC Dolby Vision

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

2160p  
4:4:460

**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
- Bidirectional IR, RS-232 and CEC
- 2-way PoH for convenient single PSU installation

4K HDR CHDBT HDMI HDCP 2.2 PoH Dolby Vision

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

2160p  
4:4:460

**4K UHD 4:4:4/60 HDBaseT™ Extender with HDMI Loop Out and 2-way PoH (70m/230ft)**  
**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
- 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 Dolby Vision





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

100m

100m

100m

2160p

4:4:4

60



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

EX-100-H2-PRO

- Variable compression and advanced HDBaseT 2.0 technology extend 4K/60 4:4:4 and HDR up to 100m/328ft
- 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
- 4x USB 2.0 throughput with both TX and RX able to act as host or device
- Bidirectional audio lane separate to TMDS

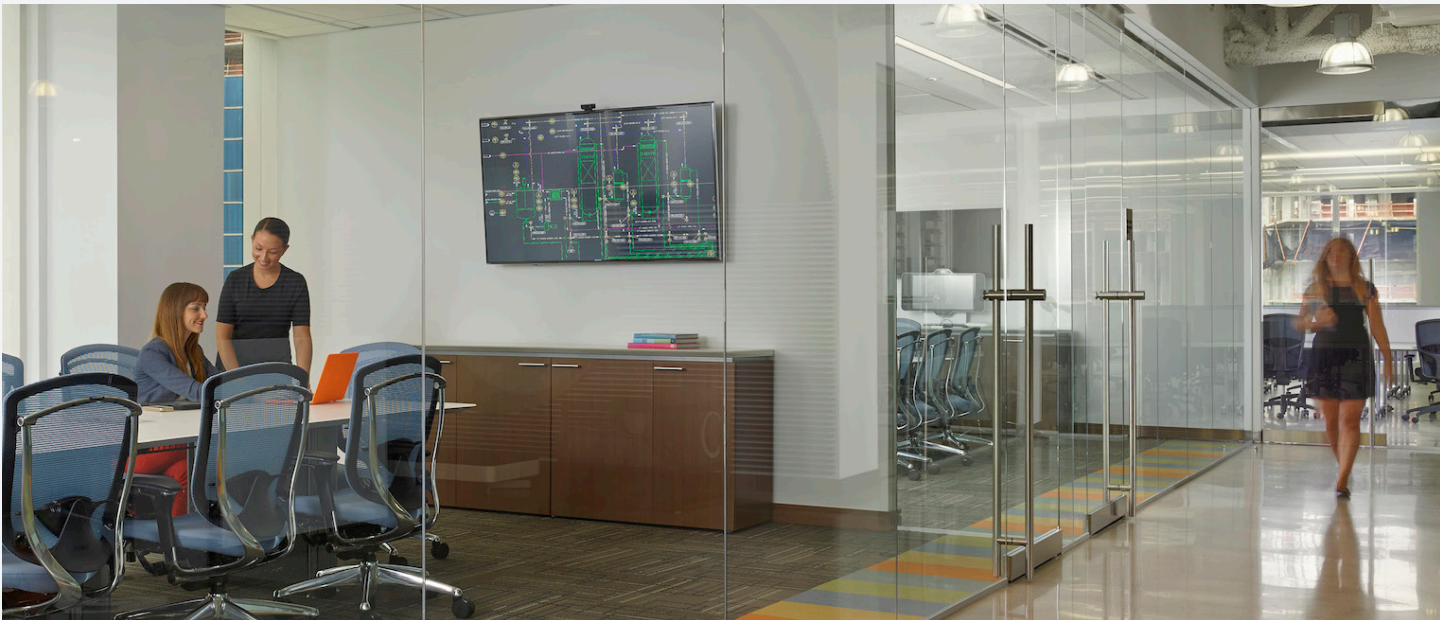
4K HDR

HDBaseT

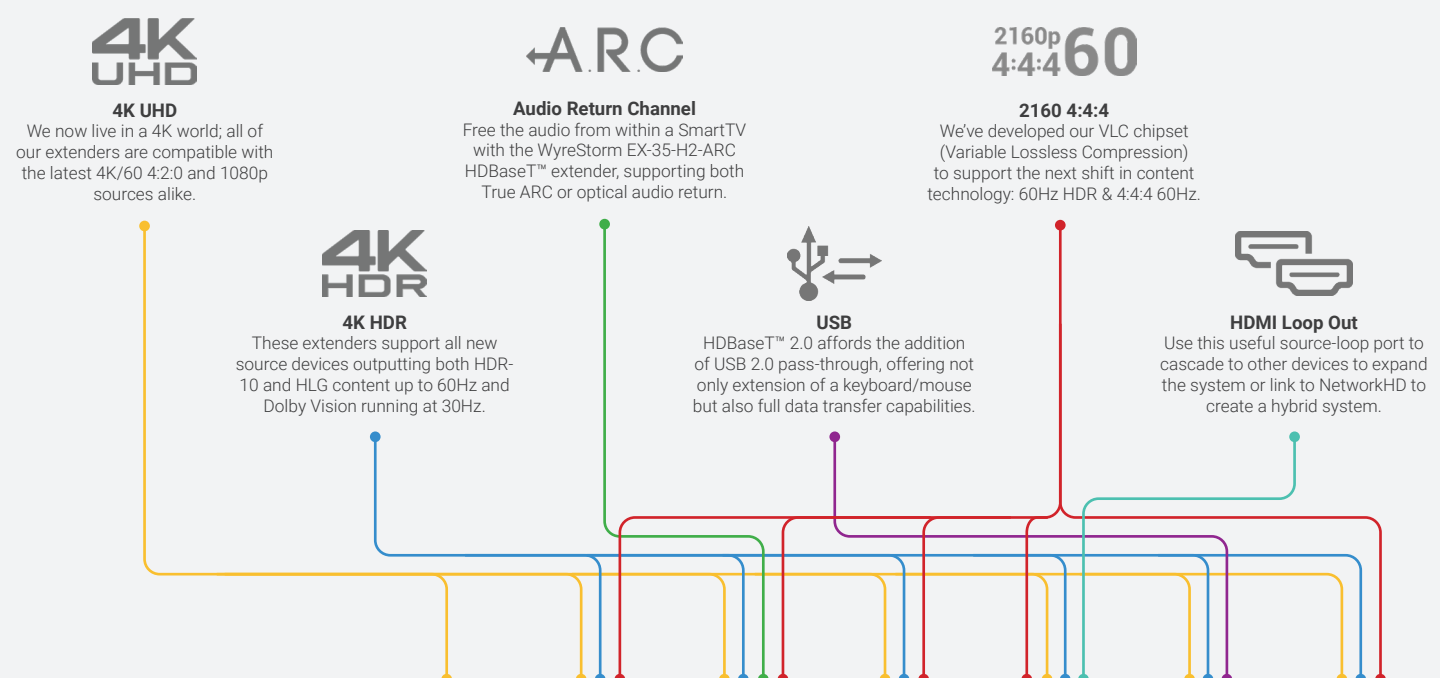
HDMI

HDCP 2.2

PoH



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



	EX-40-G3	EX-70-G2	EX-35-H2	EX-35-H2-ARC	EX-70-H2	EX-70-H2X	EX-100-H2-PRO	EXF-300-H2
Audio + Video								
HDCP	1.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1080p Distance	40m/131ft	70m/230ft	70m/230ft	70m/230ft	100m/328ft	100m/328ft	100m/328ft	300m/984ft
4K Distance	✗	35m/115ft	35m/115ft	35m/115ft	70m/230ft	70m/230ft	100m/328ft	300m/984ft
Max. Resolution	1920x1200p @60Hz	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	UTP	HDBaseT Class B	HDBaseT Class B	HDBaseT Class B	HDBaseT Class A	HDBaseT Class A	HDBaseT Class C	HDMI over Multi-mode Fiber
Communication								
Ethernet	✗	✗	✗	✗	✗	✓	✓	✗
USB 2.0	✗	✗	✗	✗	✗	✗	✓	✗
Enhanced 4K Compatibility	✗	✗	✓	✓	✓	✓	✓	✗
Control								
IR (Bidirectional)	✗	✓	✓	✓	✓	✓	✓	✓
RS-232 (Bidirectional)	✗	✓	✓	✓	✓	✓	✓	✓
CEC Pass-through	✗	✓	✓	✓	✓	✗	✗	✗
Power								
PoH	PoC	2-way	2-way	2-way	2-way	2-way	2-way	✗



# SPLITTERS: SIMPLE AND EFFECTIVE

## HDMI DISTRIBUTION

At the more basic end of the HDMI distribution spectrum is the humble splitter, offering reliable & balanced signal management for up to 8 video zones fed from a single source. But “basic end” doesn’t have to mean low performance with WyreStorm HDMI splitters offering 18Gbps HDMI performance across all outputs; this means support for video signals up to 4K/60 4:4:4 at 8-bit or 4:2:2 12-bit for residential HDR requirements.

These powerful HDMI splitters can be paired with WyreStorm’s range of Active Optical cables for pure uncompressed transmission of 4K UHD up to 50m or even our EXF-300-H2 multimode fiber extender to reach distances up to 300m/984ft.

INPUT	OUTPUT
1	2



**1:2 4K HDR HDMI Splitter**  
**SP-0102-H2**

- Easy plug and 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	2



**4K HDR HDMI Splitter with Scaling Outputs**  
**EXP-SP-0102-H2**

- A true plug and play HDMI signal splitter supporting the highest quality content to 2 display devices
- Automatically matches output to the capability of each connected screen using independent 4K > 2K scaler per output
- Maximizes compatibility with mixed resolution displays
- Supports pass-through of HDR standards such as HDR10, HLG and Dolby Vision
- Slim design allows discrete placement

4K HDR

HDMI

HDCP 2.2

Dolby Vision

INPUT	OUTPUT
1	4



**1:4 4K HDR HDMI Splitter**  
**SP-0104-H2**

- Easy plug and 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	4



**4K HDR HDMI Splitter with Scaling Outputs**  
**EXP-SP-0104-H2**

- A true plug and play HDMI signal splitter supporting the highest quality content to 4 display devices
- Automatically matches output to the capability of each connected screen using independent 4K > 2K scaler per output
- Maximizes compatibility with mixed resolution displays
- Supports pass-through of HDR standards such as HDR10, HLG and Dolby Vision
- Slim design allows discrete placement

4K HDR

HDMI

HDCP 2.2

Dolby Vision



# WHY CHOOSE WYRESTORM?

WyreStorm is a leading manufacturer of award-winning 4K and HD AV signal distribution and control solutions for Pro AV/commercial, residential/custom install and retail markets.



24/7 Support



Unrivalled Warranty



Multiple Technology Solutions



Award Winning



Global Coverage







# Premium Cables


## NEXT GENERATION CONTENT NEEDS NEXT GENERATION CONTENT DELIVERY


Experience a next generation HDMI cable specifically designed to be future-proof, supporting 4K, 5K and 8K HDR content. It offers a unique feature set in delivering uncompressed HDMI content up to 48Gbps and compatibility with emerging HDMI technologies such as ALLM (Auto Low Latency Mode) & VRR (Variable Refresh Rate) using the latest in optical transmission technology.


### Does your Active Optical Cable Match up to a WyreStorm HAOC?


**STRETCH**  
20.3KG

**CRUSH**  
30.5KG

**SLAM**  
0.4KG

**BEND**  
2.0KG

**TWIST**  
15.2KG


**WIND**  
NO BREAK



**48Gbps 8K/60 HDR 4:4:4 Active Optical HDMI Cable | eARC, CEC, ALLM & VRR | ISF Certified**  
**CAB-HAOC-FRL-10 | CAB-HAOC-FRL-15**




- Uncompressed optical transmission of HDMI content up to 48Gbps: 8K (7680 x 4320p) 60Hz
- Compatible with all current and emerging HDR standards such as HLG (Hybrid Log Gamma), HDR-10 and HDR-10+, Dolby Vision, PQ (Perceptual Quantizer) and SL-HDR-1
- Ready for future HDCP 2.3 content encryption
- Compatible with new eARC HD audio standards for on-demand content from smart TVs
- Supports HDMI2.1 FRL (Fixed Rate Link) 16/18b encoding and DSC (Display Stream Compression)
- True native HDMI communication ensures CEC and audio return communication between compatible devices
- Supports new HDMI2.1 features such as ALLM (Auto Low Latency Mode) and VRR (Variable Refresh Rate)
- Perfect for use in environments with excessive EM or RF interference





**32Gbps 8K 60Hz DisplayPort 1.4 Active Optical Cable with DP++ Support (10m/32ft) CPR, CL3 Approvals**  
**CAB-DAOC-10-C | CAB-DAOC-10-P**

- Uncompressed optical transmission of DisplayPort content up to 32.4Gbps: 7680 x 4320p @60Hz
- Compatible with static HDR and HDR-10 standards.
- Supports transmissions using DSC (Display Stream Compression) between source and display
- Ready for HDCP 2.2 content encryption
- True native HDMI communication ensures CEC and EDID communication between compatible devices
- Perfect for use in environments with excessive EM or RF interference
- Kevlar protected communication cores
- High quality aluminum construction with low-profile 21mm/0.82" TX head
- Supplied coiled on cardboard spool in box, with RX head out first.
- No single use plastic included #SUPFree





**24Gbps 4-core Active Optical HDMI Cable | 4K HDR 4:4:4/60 | Kevlar strengthened | Detachable Head | Plenum & FT6 Rated**  
**CAB-HAOC-15-C | 20-C | 30-C | 40-C | 50-C**  
(CPR SAFETY APPROVED)  
**CAB-HAOC-15-C | 20-C | 30-P | 40-P | 50-P**  
(PLENUM & FT6 SAFETY APPROVED)

- Removable HDMI head, available on 30m, 40m and 50m lengths
- 4-core optical Fiber transport for uncompressed transmission of HDMI up to 24Gbps
- Supports all content up to 4K/60 4:4:4 with HDR: HLG, HDR-10+ & Dolby Vision at 60Hz
- Perfect for use in environments with excessive EM interference
- Compatible with emerging HDMI technologies ALLM (Auto Low Latency Mode) & VRR (Variable Refresh Rate)
- High quality aluminium heads with Kevlar protected transmission cores
- Native HDMI communication supports ARC and CEC
- ISF certified





**18Gbps Low Profile HDMI Cable**  
**EXP-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 the 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








**24Gbps 4-core Active Optical HDMI Cable | 4K HDR 4:4:4/60, ARC, CEC, ALLM & VRR | Kevlar strengthened | ISF Certified**  
**CAB-HAOC-10 | 15 | 20**  
(CL3/FT4 SAFETY APPROVED)

- Available in 10m, 15m, 20m and 30m lengths
- 4-core optical Fiber transport for uncompressed transmission of HDMI up to 24Gbps
- Supports all content up to 4K/60 4:4:4 with HDR: HLG, HDR-10+ & Dolby Vision at 60Hz
- Perfect for use in environments with excessive EM interference
- Compatible with emerging HDMI technologies ALLM (Auto Low Latency Mode) & VRR (Variable Refresh Rate)
- High quality aluminium heads with Kevlar protected transmission cores
- Native HDMI communication supports ARC and CEC
- ISF certified







**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 Essentials 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 oxygen free copper cable/conductors (OFC) enhances conductivity
- Durable cable sleeve to prevent twisting and snagging





# AV Essentials Made Easy



WyreStorm Essentials has been developed as a simple and affordable line of AV distribution products for home and light commercial installations. With a wide range of models, WyreStorm Essentials are plug and play 4K, HD, and home solutions for just about every application environment.

WyreStorm warrants that all products in the Essentials range are to be free from defects in material and workmanship under normal use for a period of two (2) years from the date of purchase from WyreStorm. Products must be purchased from an authorized WyreStorm dealer or through an authorized distribution partner's dealer.

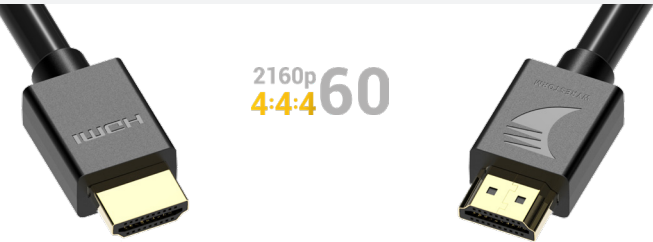


Experience a next generation HDMI cable specifically designed to be future-proof, supporting 4K and 5K HDR content. It offers a unique feature set in delivering uncompressed HDMI content up to 24Gbps and compatibility with emerging HDMI technologies such as ALLM (Auto Low Latency Mode) & VRR (Variable Refresh Rate) using the latest in optical transmission technology.

## 24Gbps Active Optical HDMI Cable | 4K UHD 4:4:4/60 10-bit HDR | ISF Certified

### EXP-CAB-HAOC-2 | 4 | 6 | 8

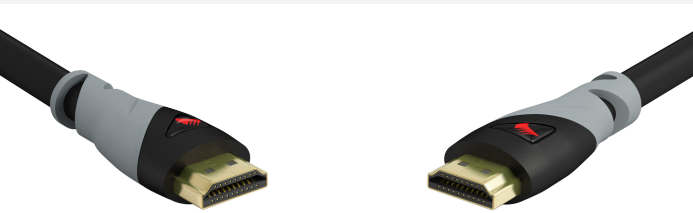
- 4-core optical fiber transport guarantees uncompressed transmission of HDMI up to 24Gbps
- Supports all content up to 4K/60 4:4:4 with HDR: HLG, HDR-10+ & Dolby Vision at 60Hz
- Perfect for use in environments with excessive EM or RF interference
- High quality aluminum heads with Kevlar protected transmission cores
- Native HDMI communication allows support of ARC, CEC & HDCP 2.3



## 18Gbps Low Profile HDMI Cable

### EXP-HDMI-H2-0.5M | 1M | 2M | 3M | 5M

- For short-range transmission of 18Gbps HDMI content at 4K/60 4:4:4 or HDR at 60Hz
- Compatible with the 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



## High Speed HDMI Cables

### 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



INPUT	OUTPUT
4	4



## 4K UHD 4:2:0 60Hz 4x4 HDBaseT™ Matrix Switch (3 HDBT, 1 HDMI) with 3 RX's & S/PDIF De-Embed

### EXP-MX-0404-KIT

- 3 x HDBaseT outputs supporting 4K/60 4:2:0 up to 35m/115ft
- 1 x switched HDMI output supporting 4K/60 4:2:0
- S/PDIF audio outputs for de-embedded HDMI audio
- PoH technology powers the receivers from the matrix



INPUT	OUTPUT
8	8



## 4K UHD 4:2:0 60Hz 8x8 HDBaseT™ Matrix Switch (6 HDBT, 2 HDMI) with 6 RX's & S/PDIF De-Embed

### EXP-MX-0808-KIT

- 6 x HDBaseT outputs supporting 4K/60 4:2:0 up to 35m/115ft
- 2 x switched HDMI output supporting 4K/60 4:2:0
- Toslink audio outputs for de-embedded HDMI audio
- PoH technology powers the receivers from the matrix



INPUT	OUTPUT
4	2

2160p  
4:4:4 60



## 4K HDR 4 Input Matrix Switcher with 2 Scaling Outputs

### EXP-MX-0402-H2

- Full 18Gbps support including up to 4K HDR 4:4:4/60
- Independent scaling of 4K content to 1080p on both outputs
- Automatic or manual CEC triggering of compatible displays
- Supports output of 5.1 ARC signal from a compatible connected screen on output 2
- Analog source audio breakout on output 1 or 5.1 source audio breakout on output 2



INPUT	OUTPUT
4	4

2160p  
4:4:4 60



## 4 Input 4 Scaling Output 4K HDR HDMI Matrix with Digital S/PDIF Audio De-Embed

### EXP-MX-0404-H2

- Routes up to four 4K HDR HDMI sources to four 4K HDR display devices
- Supports 4K@60Hz 10bit 4:2:0 | 4:4:4 and HDR@60Hz 10bit BT.2020
- HDR and Dolby Vision support
- Supports coaxial S/PDIF audio de-embed from all outputs



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





INPUT	OUTPUT
1	2

2160p  
4:4:460



### 4K HDR HDMI Splitter with Scaling Outputs

#### EXP-SP-0102-H2

- A true plug and play HDMI signal splitter supporting the highest quality content to 2 display devices
- Automatically matches output to the capability of each connected screen using independent 4K > 2K scaler per output
- Maximizes compatibility with mixed resolution displays
- Supports pass-through of HDR standards such as HDR10, HLG and Dolby Vision
- Slim design allows discrete placement

4K HDR

HDMI™

HDCP 2.2

Dolby Vision

INPUT	OUTPUT
1	4

2160p  
4:4:460



### 4K HDR HDMI Splitter with Scaling Outputs

#### EXP-SP-0104-H2



- A true plug and play HDMI signal splitter supporting the highest quality content to 4 display devices
- Automatically matches output to the capability of each connected screen using independent 4K > 2K scaler per output
- Maximizes compatibility with mixed resolution displays
- Supports pass-through of HDR standards such as HDR10, HLG and Dolby Vision
- Slim design allows discrete placement

4K HDR

HDMI™

HDCP 2.2

Dolby Vision



### Digital Audio DAC with Downmix and S/PDIF Bypass

#### EXP-CON-DAC-D

- Conversion of S/PDIF to analog
- Converts Dolby Digital 5.1 to stereo
- Switchable Toslink or Coaxial input
- Output via stereo RCA or S/PDIF
- S/PDIF output switchable between pass-through and downmix

Dolby Audio

2160p  
4:4:460

COMING Q1 2021



### 2160p 4:4:4/60 In-line Scaler with 7.1 Audio Downmixing

#### EXP-CON-H2-DD

- Audio de-embedding via S/PDIF or stereo RCA with Dolby & DTS 7.1 downmixing
- Re-embed downmixed stereo audio to HDMI
- Scales incoming 4K HDR content to 1080p
- S/PDIF output switchable between pass-through and downmix

4K HDR

HDCP 2.2

dts-HD

Dolby Audio



### HDMI KVM Extender Set with USB 2.0 Extension

#### EXP-EX-80-KVM

- Full HD video resolution of up to 1080P@60Hz up to 80m (262ft)
- Supports up to USB 2.0 data transfers bidirectionally up to 60m (197ft) and HID (Human Interface Devices) up to 80m (263ft)
- HDMI 1.3 and HDCP 1.4 Compliant.
- Bidirectional PoC - powered at either the transmitter or receiver with only one power adapter

HDMI™

HDCP

PoC

USB

2160p  
4:4:460



### 18Gbps 4K HDR UTP Extender Set with PoC & IR Passthrough

#### EXP-EX-35-G2

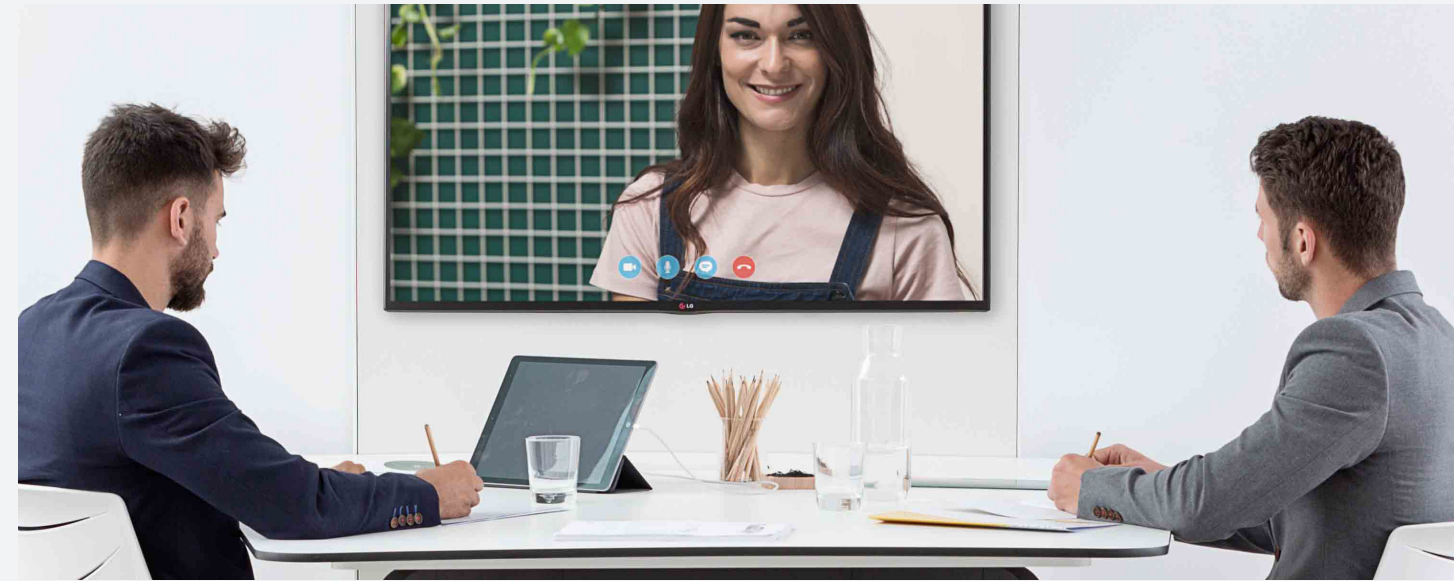
- Transmits 4K HDR@60Hz and HLG HDMI content up to 35m (115ft) or 1080p@60Hz to 50m (164ft)
- VLC technology making 18Gbps over 10.2 cable possible for visually lossless video
- PoC means receiver is powered via a single PSU at the transmitter
- IR pass-through RX > TX for source control
- Slim 15mm chassis for discreet installation

4K HDR

HDMI™

HDCP 2.2

PoC



2160p  
4:4:460



### Digital & Analog Audio Extractor with 18Gbps HDMI Passthrough


#### EXP-CON-AUD-H2

- Digital S/PDIF and analog L/R HDMI audio de-embed with HDMI passthrough
- 18Gbps HDMI passthrough, including up to 4K HDR 4:4:4/60
- Three gear sliding switch supporting passthrough, 2.0ch and 5.1 audio EDID
- Compact appearance and easy to install

4K HDR

HDMI™

HDCP 2.2



### 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

### 1080p Plug and Play Video Conference Kit with PTZ Camera, Speaker and Microphone

#### EXP-VC-KIT

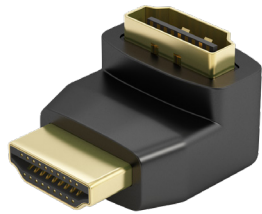
- Easy plug and play solution that does not require any software or drivers to setup
- Compatible with popular meeting software such as Skype, Teams, Zoom, BlueJeans
- 83.7 degree wide angle PTZ camera with a 1/2.8 inch, 2.07 megapixel high quality CMOS sensor, supporting a resolution up to 1080p Full HD
- Camera supports up to a 5x optical zoom powerful algorithm allows camera lens to have fast, accurate and stable auto-focusing
- Camera supports network video streaming through standard protocols such as RTP Multicast, RTSP and RTMP when connected to a LAN
- Integrated web interface on camera allows video preview, PTZ control, configuration and maintenance
- High-quality speaker with integrated microphones containing built-in meeting control buttons such as PTZ camera control, volume, muting and custom presets
- Integrated Bluetooth connectivity on the speakerphone allowing you to connect your mobile phone for hands-free calls

#### EXP-VC-KIT-MIC

- Speakerphone allows for up to 2 additional peripheral microphones to be connected, expanding the audio pick-up range to an incredible 10m (EXP-VC-KIT-MIC Sold Separately)







#### HDMI Right Angled Adapter

##### EXP-HDMI-RTA

- Adapts 90° HDMI connections for tight spaces
- Supports video resolutions up to 4K@60Hz 4:4:4



#### HDMI to HDMI Coupler

##### EXP-HDMI-CPL

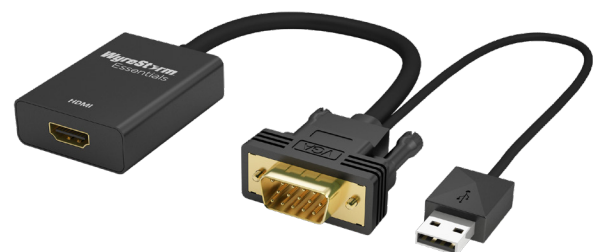
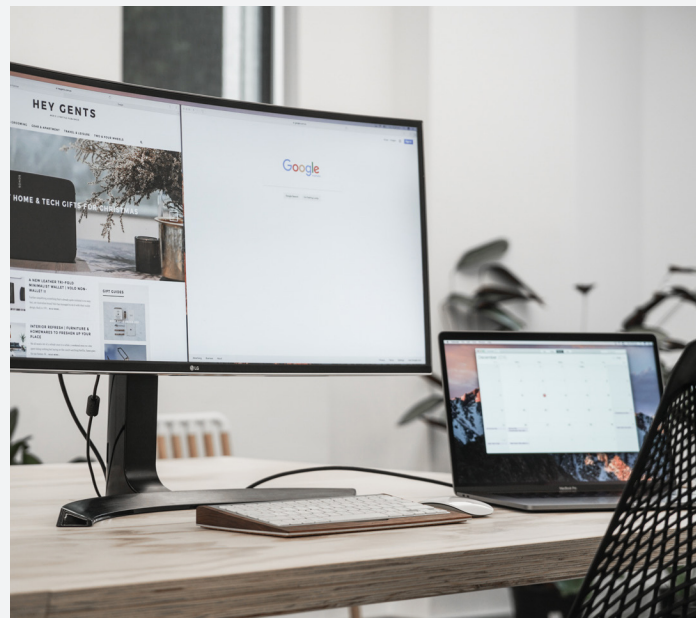
- Couples two HDMI cables together for added distance
- Bidirectional passthrough supporting 4K@60Hz 4:4:4



#### HDMI to DVI-D Adapter

##### EXP-HDMI-DVI

- Bidirectional HDMI and DVI-D adapter
- Simple, passive plug-and-play design



#### VGA to HDMI Adapter

##### EXP-HDMI-VGA

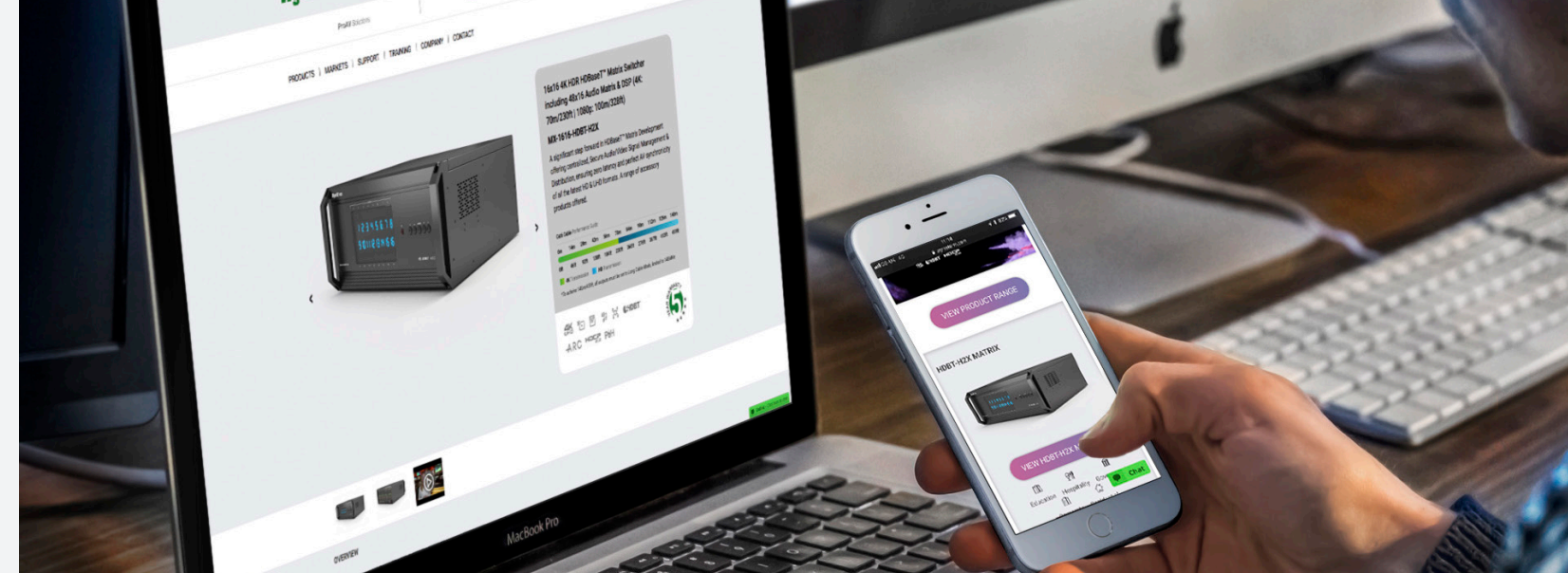
- Active adapter that converts analog VGA signals to HDMI
- Lossless video conversion without delay



#### USB-C to HDMI Adapter

##### EXP-HDMI-USBC

- Converts USB-C connections from PC/smart devices to UHD displays
- Supports video resolutions up to 4K@60Hz 4:4:4



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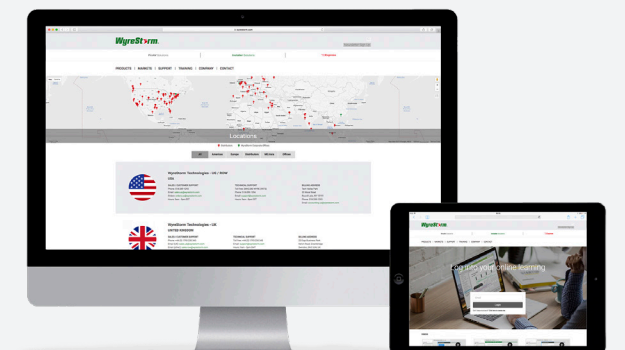
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