WyreStorm

Powerful. Reliable. Simple.

Product Guide
2020

é SISTEMAS
VISUAL COMMUNICATION SOLUTIONS
MULTIMEDIA PRODUCTS

Contents

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.

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.

Our Technologies

HDMI™

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

SUITABLE APPLICATIONS

EDUCATION   RESIDENTIAL   CORPORATE   RETAIL

HDBT™

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

SUITABLE APPLICATIONS

RESIDENTIAL   CORPORATE   EDUCATION   RETAIL   WORSHIP

FIBER
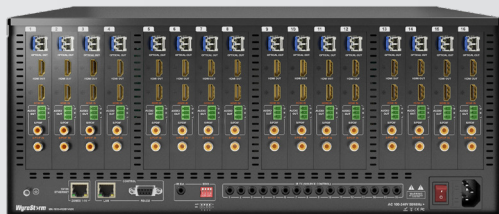
- The future of content delivery - optical cable distributes high bandwidth 4K content over huge distances point-to-point or as part of a larger HDMI, HDBaseT or AVoIP distribution
- Uses variable compression to support transmission of 18Gbps HDMI content for 4K/60 4:4:4 and HDR up to 300m/984ft
- Compatible 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

EDUCATION   CORPORATE   WORSHIP   VENUES   RETAIL   RESIDENTIAL

NETWORK HD™

Three AV over IP Technologies. Infinite applications.

100/200 Series

600 Series

400 Series

H.264

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

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

SUITABLE APPLICATIONS

HOSPITALITY   CORPORATE   RETAIL   VENUES

SDVoE™

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

SUITABLE APPLICATIONS

HOSPITALITY   EDUCATION   RESIDENTIAL   CORPORATE

RETAIL   VENUES   WORSHIP   EVENTS

JPEG 2000

- Cost-effective, high quality delivery 4K HDR over a 1GbE Network with low latency down to a single video frame – the compromise is slightly higher bandwidth demands
- Ideal for decentralized system designs
- Plug-and-play modular PoE architecture easily scales up to the largest deployments
- Value-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

SUITABLE APPLICATIONS

GOVERNMENT   CORPORATE   RESIDENTIAL

WORSHIP   R.T.O.C

3

NetworkHD™ 600 Series

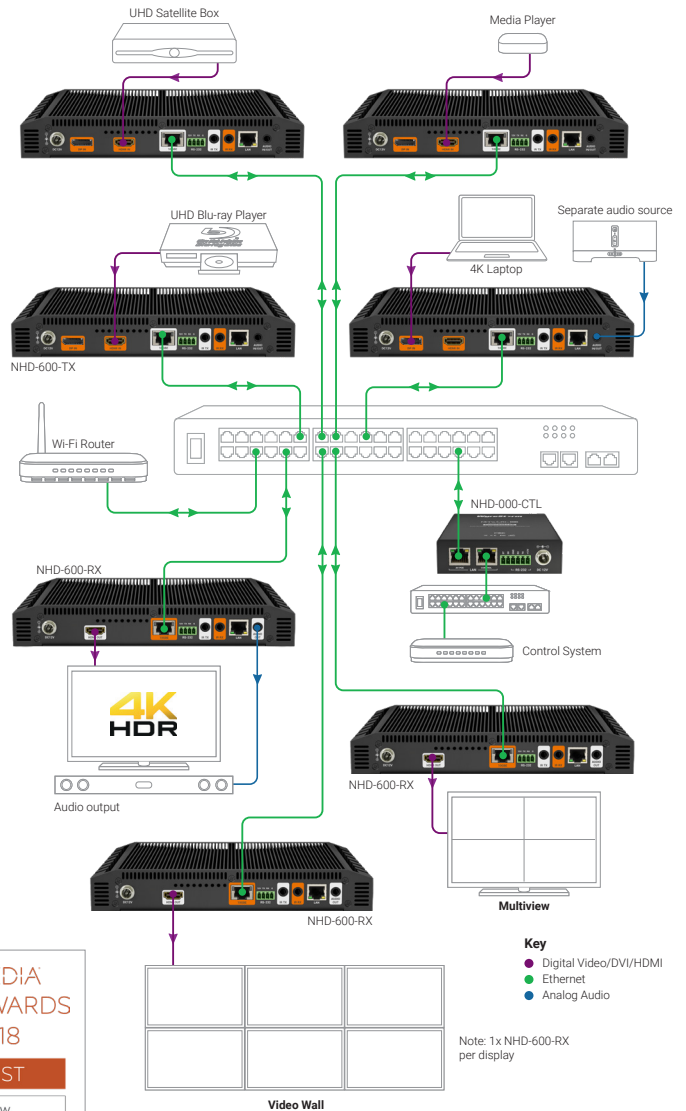## Lossless 4K/60 and 4:4:4 / HDR over 10GbE using SDVoE technology

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-though, IR/RS-232 routing/generation and additional analog audio routing
- Fanless chassis combines noiseless operation with optimal heat dissipation to maintain device performance and MTBF

SUITABLE APPLICATIONS

EDUCATION   RESIDENTIAL   GOVERNMENT   CORPORATE   WORSHIP   R.T.O.C

UHD Satellite Box
Media Player
UHD Blu-ray Player
Separate audio source
4K Laptop
NHD-600-TX
Wi-Fi Router
NHD-000-CTL
NHD-600-RX
Control System
4K HDR
NHD-600-RX
Audio output
NHD-600-RX
Multiview

Key
- Digital Video/DVI/HDMI
- Ethernet
- Analog Audio

Note: 1x NHD-600-RX per display

Video Wall

CEDIA AWARDS 2018
FINALIST
Best New Hardware Product

SDVoE™ ALLIANCE

NHD-600-TX

NHD-600-RX

WyreStorm written drivers available for major control systems:

DemoPad   CRESTRON   Control4
AMX   RTI

proud domotz partner

Compatible with Domotz Remote Network Monitoring and Management Software

Please contact your authorized WyreStorm representative or 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-though, 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

4K HDR | SDVoE ALLIANCE | 10GbE | HDCP 2.2

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

4K HDR | SDVoE ALLIANCE | 10GbE | HDCP 2.2

ONE PER SYSTEM

Controller for NetworkHD™ Systems
NHD-000-CTL

PoE | proud domotz partner

7U/8 Slot Rack Mount for NetworkHD™ 600 Series
NHD-000-RACK3

COMING Q2 2020

2160p 4:4:4 60

NetworkHD 600 Series 4K HDR AV over IP SDVoE Encoder with Dual Network Ports and Dante
NHD-610-DNT-TX

- Integrated 2ch Dante encoder for independent audio streaming with AES67 support
- RJ45 copper and SFP+ Fiber network interface to suit all long-distance cabling requirements
- Uncompromised mathematically lossless AV encoding over 10GbE SDVoE
- Zero latency 4K/60 4:4:4 encoding up to a pixel clock of 595MHz
- 18Gb HDMI and DisplayPort, Discrete analog audio stream, PCM audio downmix and audio embed/de-embed
- Independent switching for video, audio, RS-232, Infrared and USB 2.0
- Revolutionary fanless chassis provides noiseless and maintenance free operation

4K HDR | SDVoE ALLIANCE | 10GbE | HDCP 2.2 | Dante

COMING Q2 2020

2160p 4:4:4 60

NetworkHD 600 Series 4K HDR AV over IP SDVoE Decoder with Dual Network Ports
NHD-610-RX

- RJ45 copper and SFP+ Fiber network interface to suit all long-distance cabling requirements
- Uncompromised mathematically lossless AV encoding over 10GbE SDVoE
- Zero latency 4K/60 4:4:4 encoding up to a pixel clock of 595MHz
- Powerful, broadcast quality scaler supports video walls up to 8x8 displays and Multiview up to 16 inputs
- Independent switching for video, audio, RS-232, Infrared and USB 2.0
- Revolutionary fanless chassis provides noiseless and maintenance free operation

4K HDR | SDVoE ALLIANCE | 10GbE | HDCP 2.2

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

NetworkHD™ 400 Series

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

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

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

FEATURES

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

SUITABLE APPLICATIONS

HOSPITALITY   EDUCATION   RESIDENTIAL   CORPORATE

RETAIL   VENUES   R.T.O.C
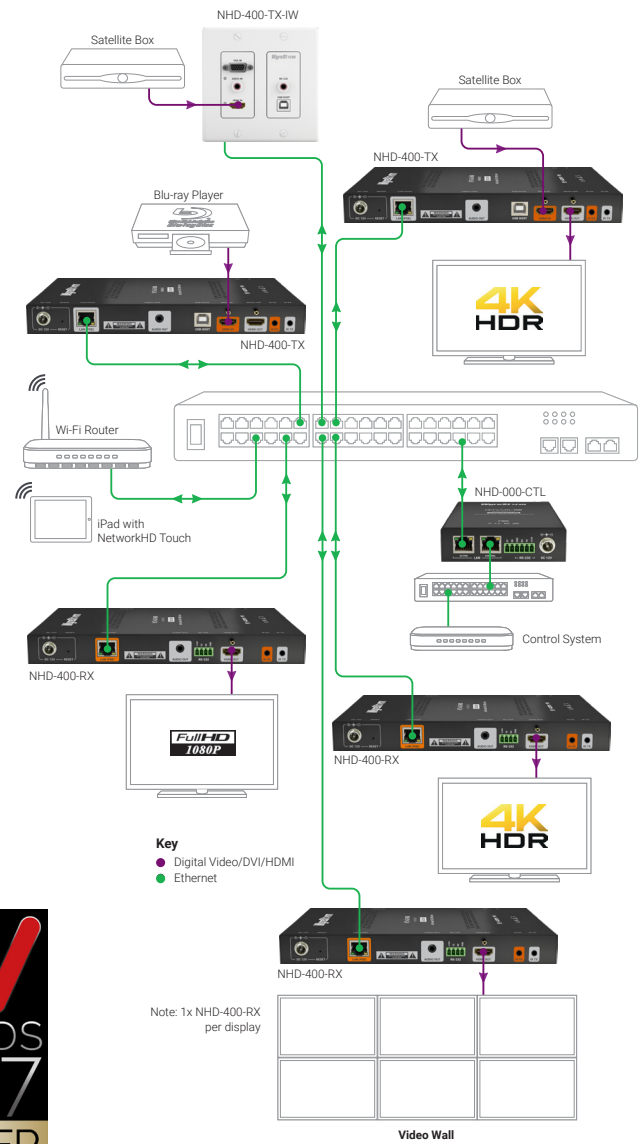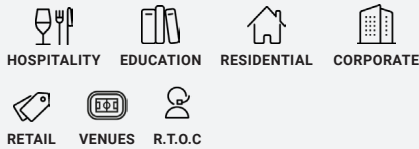
NHD-400-TX

NHD-400-RX

WyreStorm written drivers available for major control systems:

DemoPad   CRESTRON.   Control4

AMX   RTI

Compatible with Domotz Remote Network Monitoring and Management Software

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

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 video previews and drag and drop source selection
- Breakaway, independent routing of all video, audio, IR, USB and RS-232 streams
- Up to 16x16 video walls
- USB passthrough, CEC display control and bidirectional IR control of connected devices

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COMING Q1 2020

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

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ONE PER SYSTEM

Controller for NetworkHD™ Systems

NHD-000-CTL

proud domotz partner

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COMING Q1 2020

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
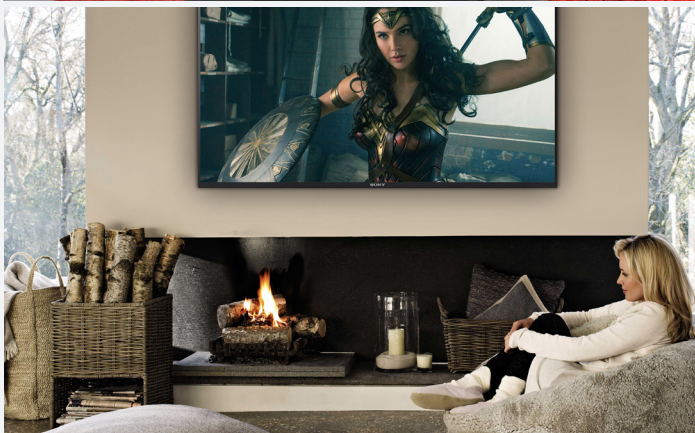
NetworkHD™ 400 Series In-Wall 4K AV over IP JPEG 2000 Encoder

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™ 200 Series

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

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

A 200 Series encoder can either be paired with a 100 Series decoder for matrix switching to individual screens or NHD-210-RX decoder for video wall decoding. Both decoders including HDMI and analog audio breakout outputs, or use a NHD-250-RX decoder for multiview monitoring.

FEATURES

- Shared 100 Series H.264 platform offering highly scalable low-bandwidth HD over IP distribution
- Matrix switching functionality with NHD-100-RX decoder
- Video wall processing functionality up to 10x10 screens with NHD-210-RX decoder
- Multi-screen monitoring or PiP video wall-like capabilities with 4K scaling using the NHD-250-RX decoder
- Free NetworkHD Touch™ iPad control app for live video previews and drag and drop source selection
- QuickSync™ instant source switching
- Full RS-232 control of connected displays and CEC commands for connected display
- Supports video previewing on a PC or third party device
- Standards-based H.264/MPEG-4 AVC video compression

SUITABLE APPLICATIONS

HOSPITALITY   CORPORATE   RETAIL   VENUES   R.T.O.C

Commercial INTEGRATOR 2016 BEST WINNER
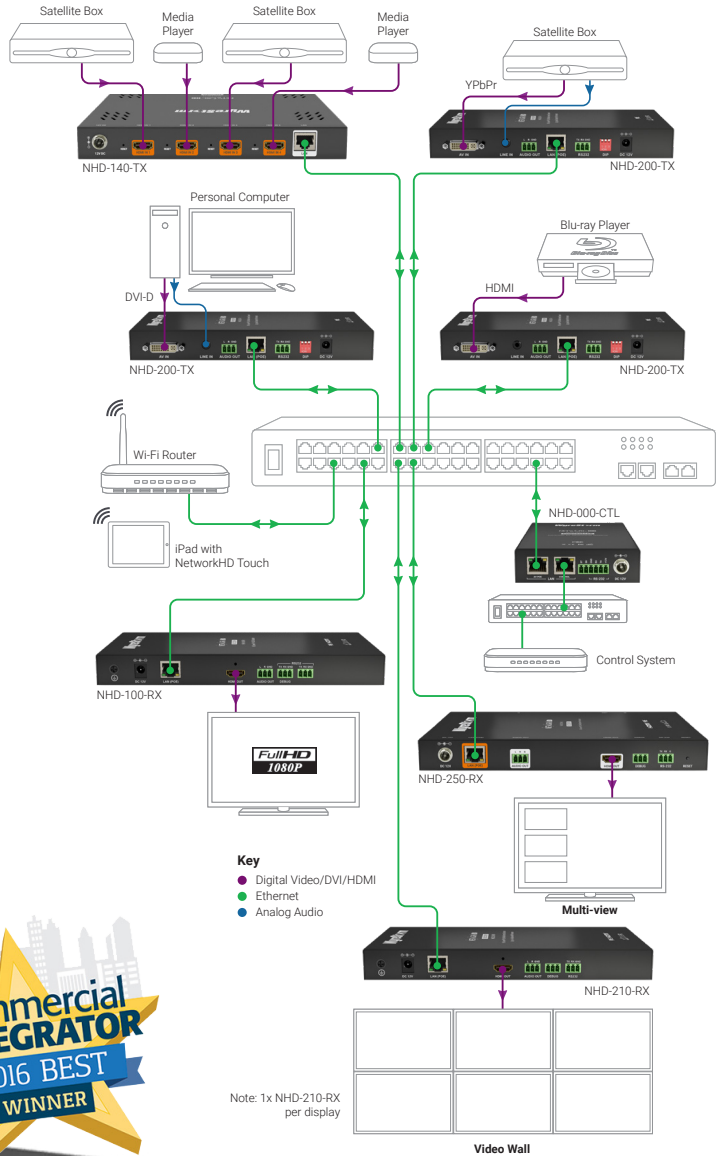
NHD-200-TX

NHD-210-RX

WyreStorm written drivers available for major control systems:

DemoPad   CRESTRON.   Control4

AMX   RTI

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Compatible with Domotz Remote Network Monitoring and Management Software

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

NetworkHD™ 200 Series AV Over IP H.264 Encoder
NHD-200-TX
- Highly scalable full HD over IP solution using H.264 for very large commercial AV deployments requiring alternative input signal types
- Multi-format DVI-I input supports DVI-D, HDMI, Component and VGA with stereo audio
- Plug-and-play configuration with auto IP addressing and auto discovery of components
- Manual DIP switch setting for signal type

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

**ONE PER SYSTEM**

Controller for NetworkHD™ Systems
NHD-000-CTL

NetworkHD™ 200 Series AV Over IP H.264 Decoder with Video Wall Processing
#### NHD-210-RX
- Multi-format HD over IP AV distribution solution utilizing H.264 compression
- Offers video wall functionality up to 10x10 screens and matrix switching
- Analog audio breakout
- Instant switching between video sources with high quality and low latency modes
- Plug-and-play configuration, auto IP addressing and auto-discovery
- Supports NetworkHD Touch™ iPad control app, Demopad™ and major control systems
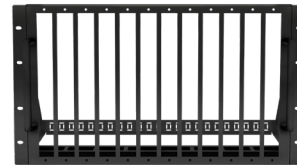
6U/12 Slot Rack Mount for NetworkHD™ 100/200/300/400 Series
NHD-000-RACK4

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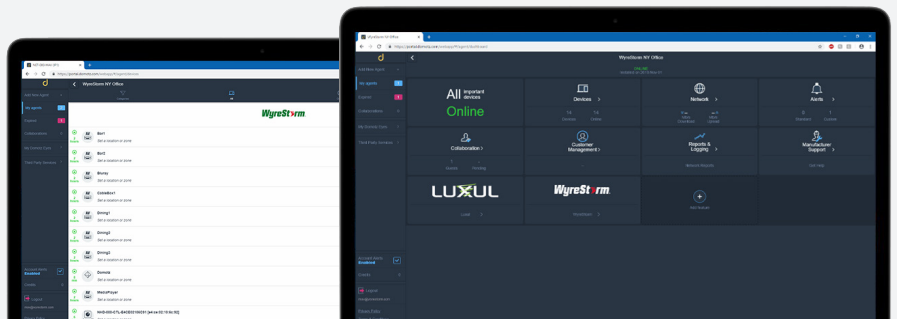
Using powerful network analysis tools, the new WyreStorm Tile within the Domotz management platform allows immediate status updates and remote monitoring of the NetworkHD AV over IP product line. This will reduce truck rolls and increase profits though managed service agreements. The tile provides dealers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

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

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

NetworkHD™ 100 Series
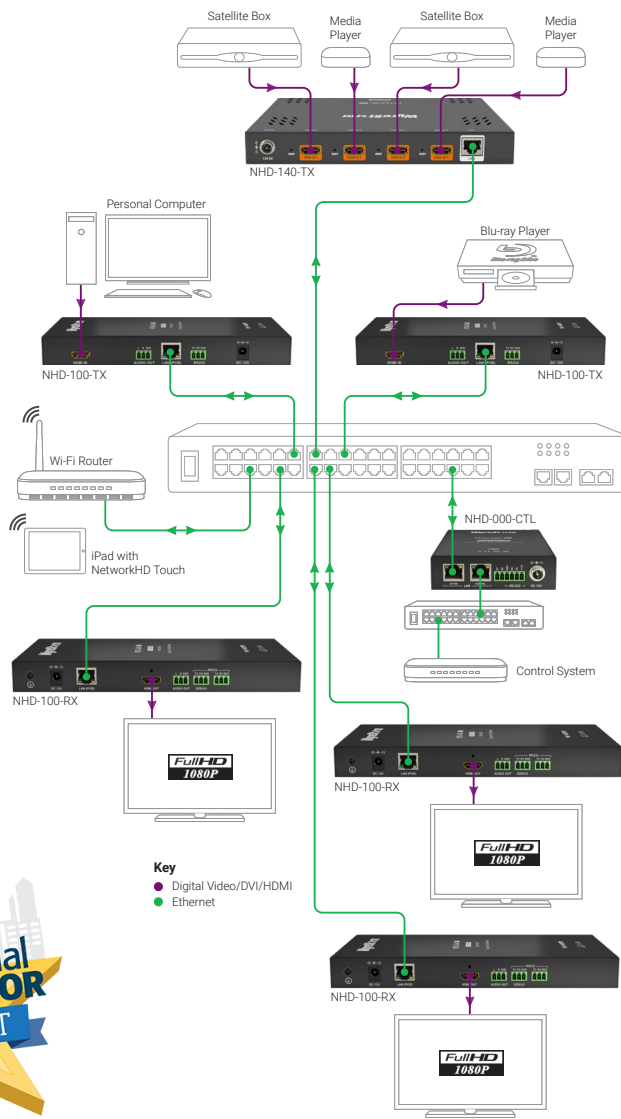
Low bandwidth HD over 1GbE using H.264 technology

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

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

FEATURES

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

SUITABLE APPLICATIONS

HOSPITALITY   RETAIL   VENUES

WyreStorm written drivers available for major control systems:

DemoPad   CRESTRON.   Control4

AMX   RTI

Key
- Digital Video/DVI/HDMI
- Ethernet

NHD-100-TX

NHD-100-RX

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Compatible with Domotz Remote Network Monitoring and Management Software

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

NetworkHD™ 100 Series AV Over IP H.264 Encoder

NHD-100-TX

- Highly scalable AV over IP solution using the most efficient H.264 compression technology to allow for very large commercial AV deployments
- Configurable H.264 decoding technologies supporting up to 1920x1200 60fps at 30Mb/s and below
- Plug-and-play setup with auto discovery of components
- Supports NetworkHD Touch™ iPad control app, Demopad™ and major control systems

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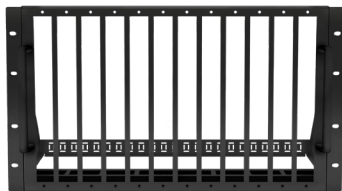- Optional PoE power

NetworkHD™ 100 Series AV Over IP H.264 Decoder

NHD-100-RX

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

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, Demopad™ control and other leading control systems

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

NEED AN AV OVER IP SOLUTION YOU CAN RELY ON? WYRESTORM HAS YOU COVERED.

2160p 4:4:4 60

2160 4:4:4
Using the power of the SDVoE Alliance standards, full 18Gb/s HDMI content, including HDR10, Dolby Vision and HLG utilizes our VLC technology.

Ultra-low Latency
With latency of just a single frame of video or better, these products are perfect for interactive and live applications.

Multiview
Show multiple source video windows on a single display, perfect for image grids or Picture-in-Picture applications.

4K HDR
Compatible with 4K/60 4:2:0 and 1080p sources video with 4:2:2 HDR10 support at 30Hz.
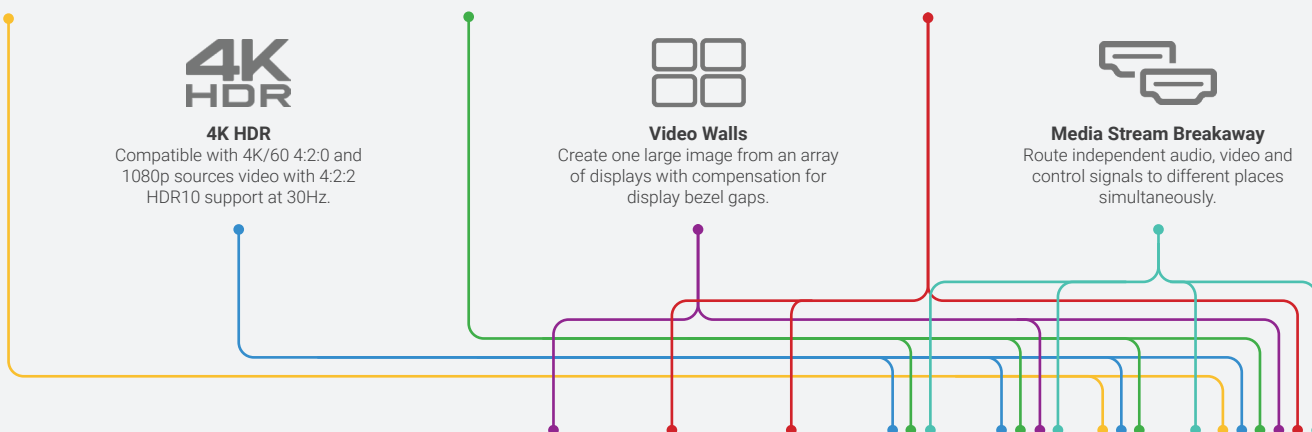
Video Walls
Create one large image from an array of displays with compensation for display bezel gaps.

Media Stream Breakaway
Route independent audio, video and control signals to different places simultaneously.

	NHD-100-TX	NHD-100-RX	NHD-140-TX	NHD-200-TX	NHD-210-RX	NHD-220-RX	NHD-250-RX	NHD-400-TX	NHD-400-RX	NHD-600-TX	NHD-600-RX
Audio + Video											
Max. Resolution	1920x1200 (1080p)	1920x1200 (1080p)	1920x1200 (1080p)	1920x1200 (1080p)	1920x1200 (1080p)	1920x1200 (1080p)	1920x1200 (1080p)	4K UHD	4K UHD	4K UHD/DCI	4K UHD/DCI
Compression Codec	H.264	H.264	H.264	H.264	H.264	H.264	H.264	JPEG 2000	JPEG 2000	SDVoE	SDVoE
Max. 4K Timing	✗	✗	✗	✗	✗	✗	✗	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 Mde)	250ms (High Quality Mode) 60ms (Low Latency Mde)	250ms (High Quality Mode) 60ms (Low Latency Mde)	250ms (High Quality Mode) 60ms (Low Latency Mde)	250ms (High Quality Mode) 60ms (Low Latency Mde)	250ms (High Quality Mode) 60ms (Low Latency Mde)	250ms (High Quality Mode) 60ms (Low Latency Mde)	16ms 60fps	16ms 60fps	0ms (Genlock)	0ms (Genlock)
PoE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗
Video Wall	✗	✗	✗	✗	✓	✗	✗	✗	✓	✗	✓
Bezel Gap Correction	✗	✗	✗	✗	✓	✗	✗	✗	✓	✗	✓
Image Rotation	✗	✗	✗	✗	✓	✗	✗	✗	✓	NA	NA
Bandwidth Control	✓	✓	✓	✓	✓	✓	✓	✗	✗	✓	✓
CEC	✓	✓	✗	✓	✓	✗	✗	✓	✓	✗	✗
HDMI Passthrough	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗
HDR	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓
Instant Switching	✓	✓	✓	✓	✓	✓	✓	✗	✗	✓	✓
Max. Video Wall Size	✗	✗	✗	✗	10x10	✗	✗	✗	16x16	✗	8x8
Multiview	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗	✓
Network Type	1Gb Multicast	1Gb Multicast	1Gb Multicast	1Gb Multicast	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	30 Mb/s	30 Mb/s	270 Mb/s	270 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-000-RACK4	✓ 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
Drivers	Crestron™, AMX™, RTI™, Control4™, Demopad™	Crestron™, AMX™, RTI™, Control4™, Demopad™	Crestron™, AMX™, RTI™, Control4™, Demopad™	Crestron™, AMX™, RTI™, Control4™, Demopad™	Crestron™, AMX™, RTI™, Control4™, Demopad™	Crestron™, AMX™, RTI™, Control4™, Demopad™	Crestron™, AMX™, RTI™, Control4™, Demopad™	Crestron™, AMX™, RTI™, Control4™, Demopad™	Crestron™, AMX™, RTI™, Control4™, Demopad™	Crestron™, RTI™, Control4™, Demopad™	Crestron™, RTI™, Control4™, Demopad™

Abu Dhabi Global Market Courtroom

Abu Dhabi, UAE

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

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.
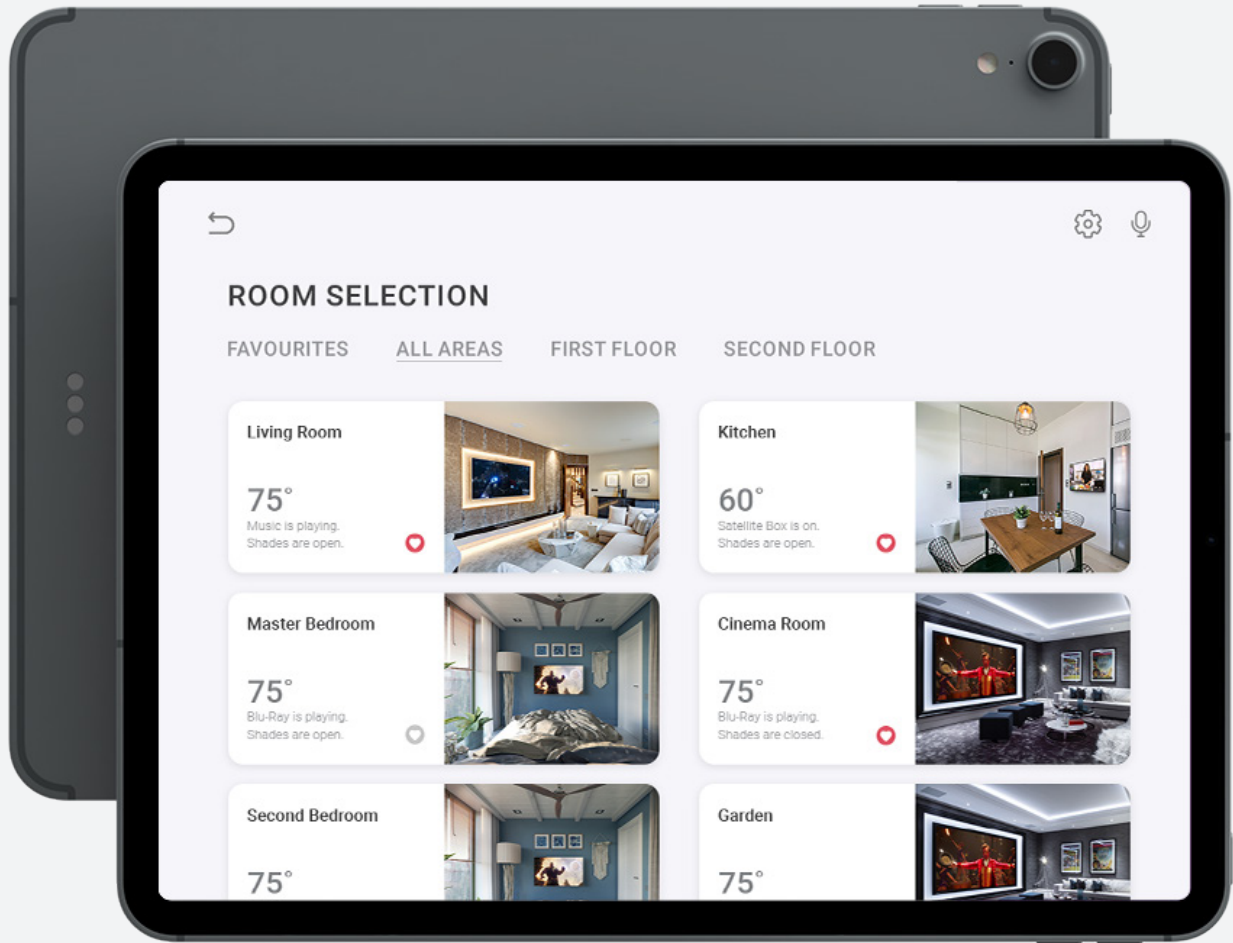

The digital courtroom was set up using the NetworkHD 400 Series, a modular video-over-IP distribution system from WyreStorm, which can connect any source over an open matrix. "We wanted to deploy HDMI-over-IP due to the amount of video distribution taking place. We had 27 desks in the courtroom, each 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.

Want to see more?

WyreStorm is continually growing their portfolio all over the world and we have so many great case studies available for you to look at, so make sure you visit **https://wyrestorm.com/case-studies.**

DemoPad
The Only Limitation is your Imagination

2-WAY FEEDBACK

2-way feedback for IP and RS-232 devices, gives feedback to the user via a slider for volume or input on a matrix. Know the levels if someone else changes volume from another app or wall plate. Check to see inputs to a TV to ensure the big game is going to be played or that meeting will be smooth and professional.

CUSTOM GUI

Use one of our free to use graphics sets or create your own. The GUI is so customizable that only your imagination will limit you. Create that smart professional boardroom control with your customers logo, or a slick modern intuitive look for your high-end residential customers.

BUILDING AUTOMATION

Have your home or office be truly automated. Have the blinds track the sun and lower during the day, turn on and off lights when your alarm is set or disabled, automatically have the big game be shown on the big screen.

USE YOUR OWN REMOTE

Use an IR remote you are comfortable with to control your AV system or any other device. Use your set-top box remote to turn on the TV, control the volume, switch to a movie and control your Blu-ray or media player.

Compact PoE Control Gateway featuring IR, Contact Closures & RS-232

CENTRO-CM

- 2-way feedback for IP and RS-232 devices – can give feedback to the user via a slider for volume or input on a matrix
- Remote management of projects – make changes for a customer and update via the app settings, download a new project with the scan of a QR code
- Timed events - For example, turn the lights on at sunset, except on weekends
- Use the digital input to trigger events from a PIR, automatically turn on and off lights if alarm system is set or unset
- Use global Cache database IR codes saved as a .txt file

Mini Control Gateway with Automation, IR, Integrated Web-Server & HDMI Output

CENTRO-8M

- 2-way feedback for IP and RS-232 devices – can give feedback to the user via a slider for volume or input on a matrix
- Remote management of projects – make changes for a customer and update via the app settings, download a new project with the scan of a QR code
- Timed events - For example, turn the lights on at sunset, except on weekends
- Use global Cache database IR codes saved as a .txt file
- Programmable Audio/Video output for media playback

Rack Mountable Control Gateway featuring IR, RS-232, Contact Closures, and PIR Sensors

CENTRO-C

- 2-way feedback for IP and RS-232 devices – can give feedback to the user via a slider for volume or input on a matrix
- Remote management of projects – make changes for a customer and update via the app settings, download a new project with the scan of a QR code
- Completely customizable GUI. You choose the graphics you want.
- Automation added with a Centro 8M – Build in logic to automate control of devices based on sun rise and sunset, time etc.
- Use the digital input to trigger events from a PIR, automatically turn on and off lights if alarm system is set or unset
- 50 i/o ports individually addressable
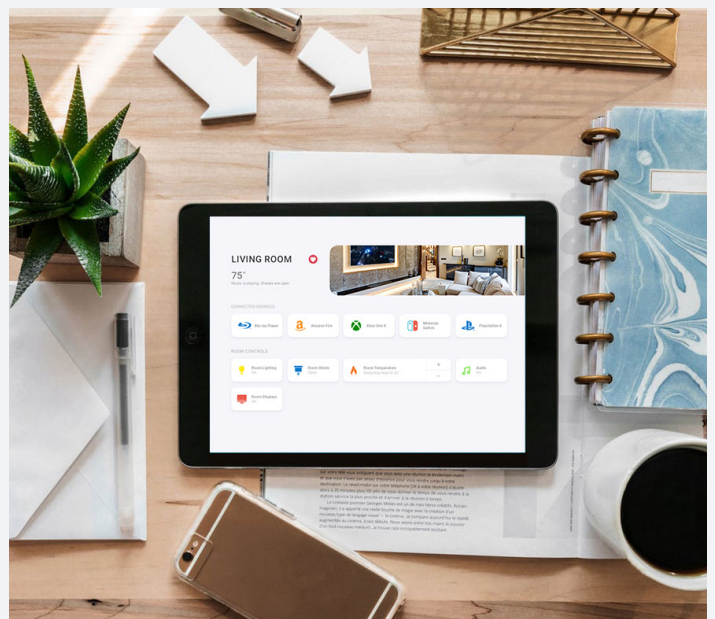
NETWORK HD TOUCH

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

Put your all your presets at your fingertips with configuration files automatically downloaded from the NetworkHD controller to group displays, video walls, multiview devices or predefined zones.

THE BEST AV CONTROL SOLUTION... PERIOD

A unique real-time video preview of all sources, selection and simple drag and drop source switching provides the best end-user control experience on the market. And it's completely free with NetworkHD.

MULTI-ZONE DEMONSTRATION MODE

Test drive Touch in demo mode without carrying an entire NetworkHD system with you and show off the incredible capabilities of the interface to clients with a full multi-zone sports bar demonstration.

CUSTOM, ON THE FLY MULTIVIEW LAYOUTS

Drag source windows to a display and resize in real-time using two fingers. Create dynamic Multiview layouts for interactive, live environments.

PRESETS AND DISPLAY CONTROL

Designed with a simple and intuitive control experience in mind, with a single press users can recall layout presets or turn display groups on or off.

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

Available on the App Store

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

NHD-300-TX

- 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

RACK MOUNTING SOLUTIONS: 3 OPTIONS FOR MOUNTING NETWORKHD AND PRO AV DEVICES
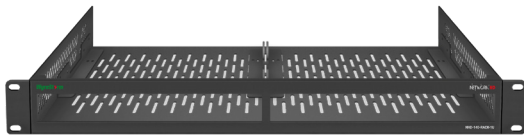
1U/2 Slot Rack Mount for NetworkHD™ NHD-140-TX
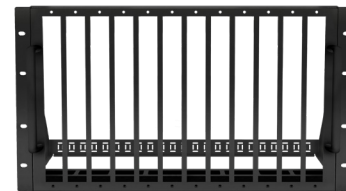### NHD-140-RACK-1U

- 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
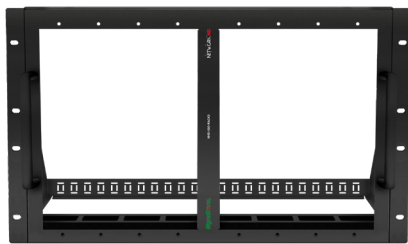
7U/8 Slot Rack Mount for NetworkHD™ 600 Series
NHD-000-RACK3

- 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

WYRESTORM

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.

GOES GREEN

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

#SUP FREE

100% BIODEGRADABLE
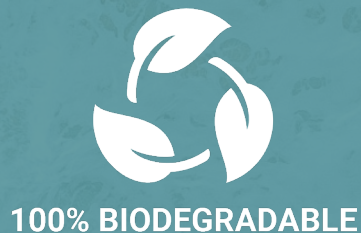
H2XC SERIES: MATRIX SWITCHING EVOLVED
18GBPS DISTRIBUTION OVER COPPER & FIBER

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.

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.

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.

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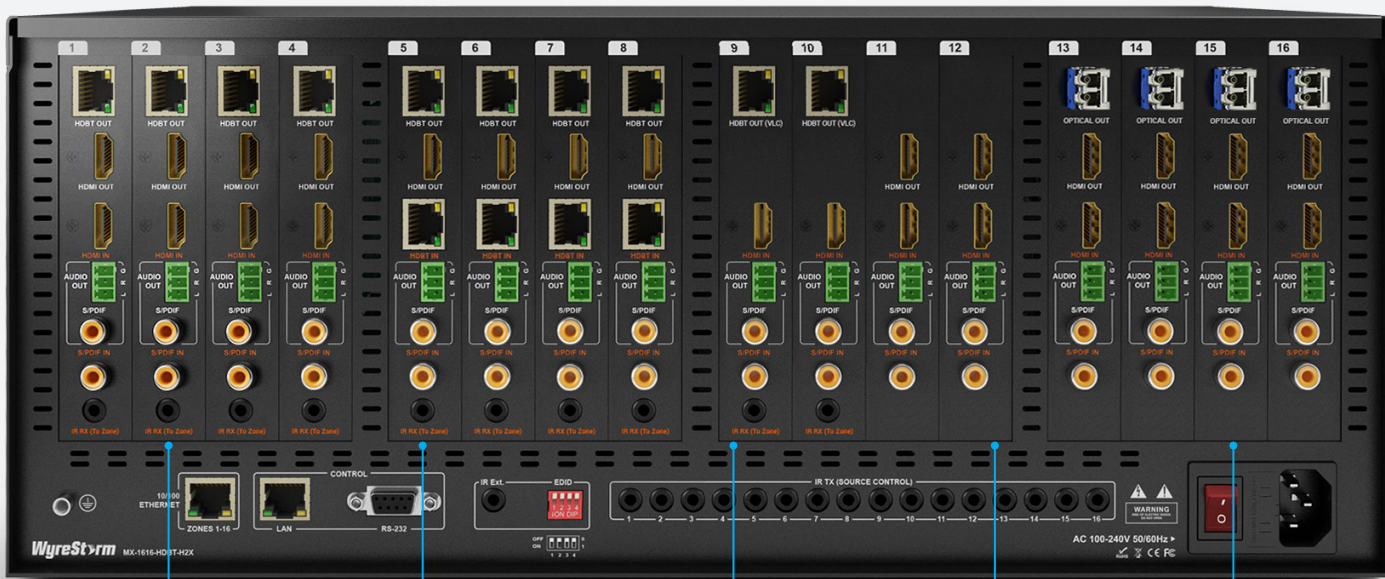
4K HDR with Extensive Audio Options
TX-H2X-HDMI

Decentralize Your Sources
TX-H2X-HDBT

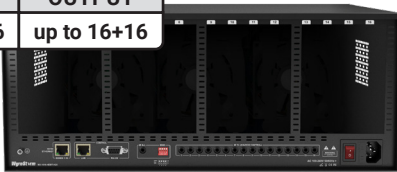**Visually Lossless 4K/60 4:4:4 Over HDBT**
TX-H2X-VLC

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

INPUT	OUTPUT
up to 10	up to 10+10

2160p 4:4:4 60

10x10 Modular 4K HDR and Audio DSP Matrix
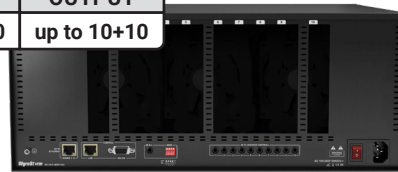**(4K: 70m/230ft | 1080p: 140m/459ft | Fiber: 300ft/984ft)**
MX-1010-H2XC

- 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

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.

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.

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 4:4:4 60 — 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.

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.

18 Gbps — 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.

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

2160p 4:4:4 60

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

INPUT	OUTPUT
6	6+4

2160p 4:4:4 60

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

INPUT	OUTPUT
8	8+4

2160p 4:4:4 60

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

MXV-0808-H2A

- HDBaseT transmission of 4K/60 4:4:4 up to 35m/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

INPUT	OUTPUT
6	6+4

2160p 4:4:4 60

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

MXV-0606-H2A

- HDBaseT transmission of 4K/60 4:4:4 up to 35m/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

INPUT	OUTPUT
4	8

2160p 4:4:4 60

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

MXV-0408-H2A

- HDBaseT transmission of 4K/60 4:4:4 up to 35m/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 2 HDMI outputs all offering 18Gbps signal distribution
- A/V mute function cuts signal to any output on demand
- PoH technology powers receivers from the matrix

Digital Audio DAC with Downmix and S/PDIF Bypass

EXP-CON-DAC-D

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 4:4:4 60 — 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.

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.

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.

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

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

INPUT	OUTPUT
6	6

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

INPUT	OUTPUT
4	4

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

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.

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.

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.

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.

INPUT	OUTPUT
4	4+1

2160p 4:4:4 60

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

MXV-0404-H2A-KIT

- HDBaseT transmission of 4K/60 4:4:4 up to 35m/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

INPUT	OUTPUT
4	4+1

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

MX-0404-HDBT-H2A-KIT

- HDBaseT transmission of 4K/60 4:2:0 up to 35m/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.

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.

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.

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.
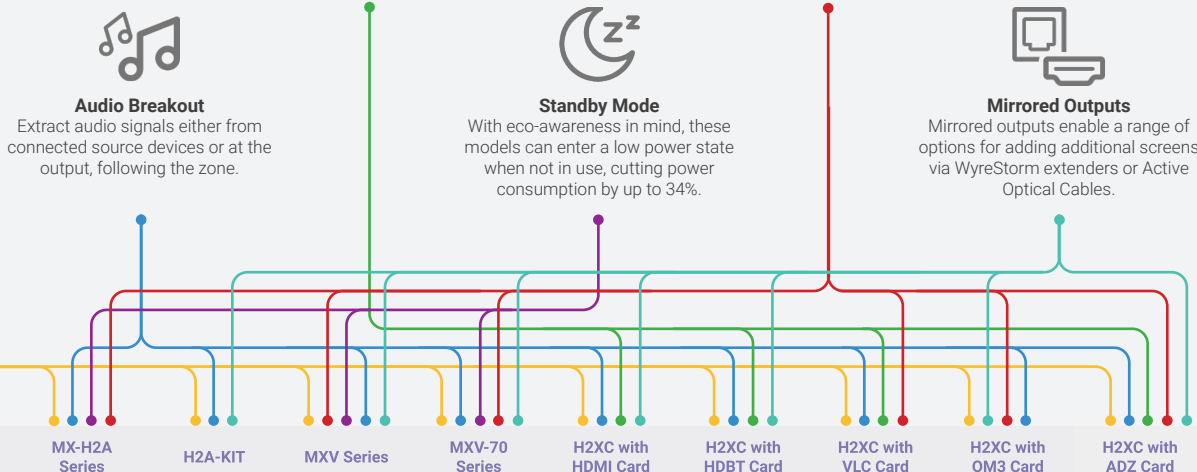
Audio Breakout
Extract audio signals either from connected source devices or at the output, following the zone.
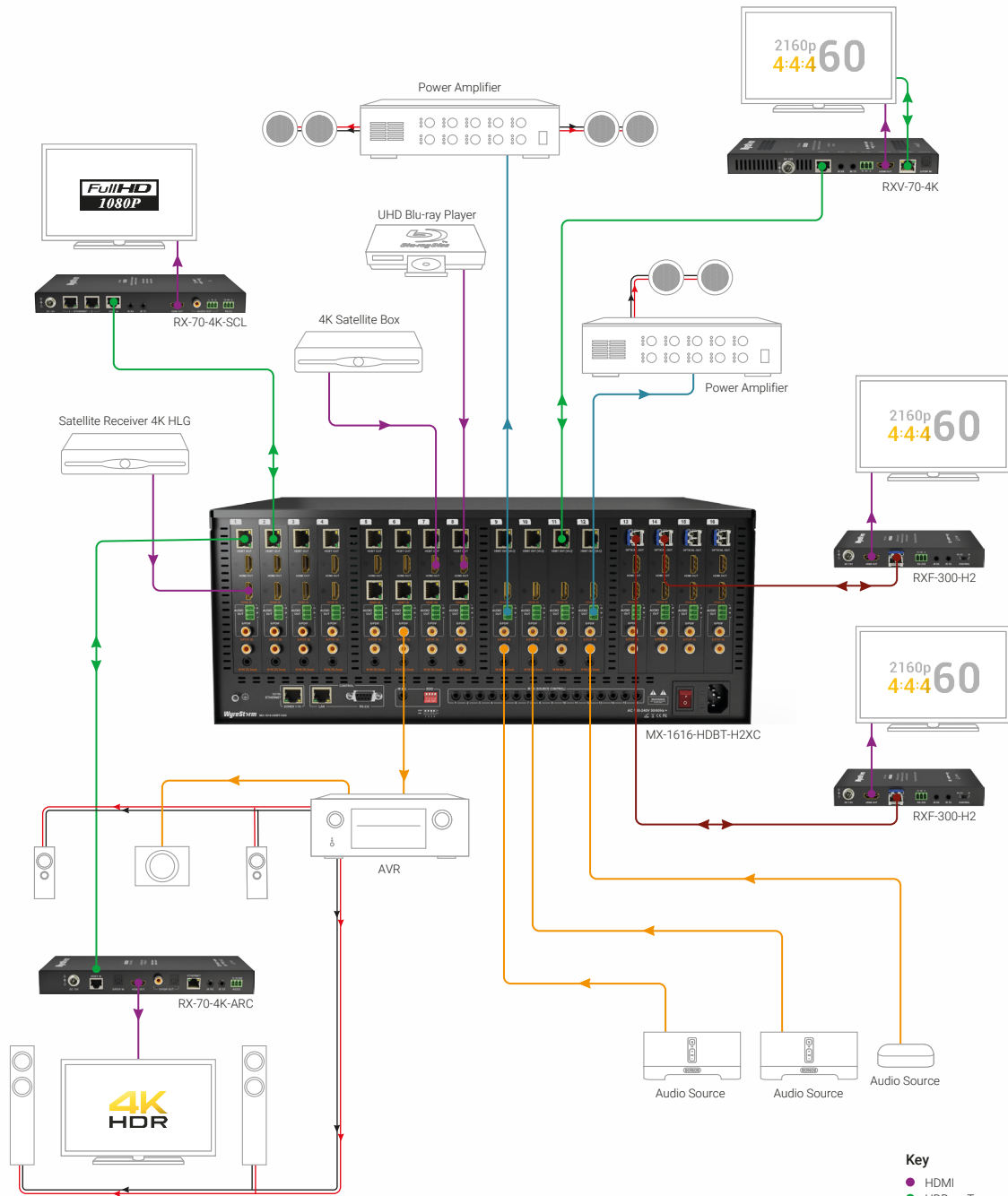
Standby Mode
With eco-awareness in mind, these models can enter a low power state when not in use, cutting power consumption by up to 34%.

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	✗	✓ (Q4)	✓ (Q4)	✓	✓	✓	✓	✗
AV Mute for Outputs	✓	✗	✓	✓	✗	✗	✗	✗	✗
CEC Power Triggering	✓	✓	✓	✓	✓	✓	✓	✗	✓
Customized CEC Commands	✓ (Q4)	✓ (Q4)	✓ (Q4)	✓ (Q4)	✓ (Q4)	✓ (Q4)	✓ (Q4)	✗	✓ (Q4)
Power									
Standby Mode	✓	✗	✓	✓	✗	✗	✗	✗	✗
PoH	NA	✓	✓	✓	✓	✓	✓	NA	NA

*Transmission can be extending up to the following distances using HAOC (50m), HDBaseT extender (100m) or Fiber extender (300m)

Matrix Switcher application

Power Amplifier

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

RXV-70-4K

Full HD 1080P

UHD Blu-ray Player

RX-70-4K-SCL

4K Satellite Box

Satellite Receiver 4K HLG

Power Amplifier

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

RXF-300-H2

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

MX-1616-HDBT-H2XC

RXF-300-H2

AVR

RX-70-4K-ARC

4K HDR

Audio Source

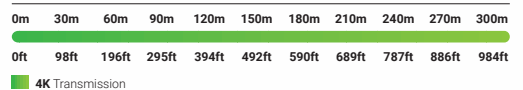Audio Source

Audio Source

Key

- ● HDMI
- ● HDBaseT
- ● OM3 MM Fiber
- ● Digital Audio
- ● Analog Audio
- ● IR/RS-232
- ○ Speaker Cable

H2XC Series

Cat6 Cable Performance Guide

0m	14m	28m	42m	56m	70m	84m	98m	112m	126m	140m

0ft	46ft	92ft	138ft	184ft	230ft	360ft	276ft	367ft	413ft	459ft

■ **4K** Transmission   ■ **HD** Transmission

OM3 Cable Performance Guide

0m	30m	60m	90m	120m	150m	180m	210m	240m	270m	300m

0ft	98ft	196ft	295ft	394ft	492ft	590ft	689ft	787ft	886ft	984ft

■ **4K** Transmission
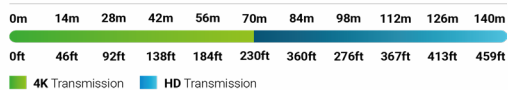
PRESENTATION SOLUTIONS: DYNAMIC SWITCHING, OUT OF SIGHT & OUT OF MIND

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; both the EX-SW-0301 & 0401 models 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 a corporate or education install. Coupled with the TS-280 touchscreen, a user-friendly control interface can be added to these models within minutes allowing full control of the meeting or classroom space. With 4K and HDCP2.2 compatibility thrown in for good measure, these powerful switchers will also handle most modern commercially available content.

ADDITIONAL RECEIVER INPUTS

When the meeting room is in an idle state, the receiver can switch to either of its HDMI inputs which can be used for anything from a signage player to a satellite receiver, keeping the screen active and displaying content. These inputs can also be triggered manually at any time should a Chromecast or AppleTV be fitted for screen mirroring.

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 full data transfer capabilities. Furthermore, by allowing 3 host devices to be connected, the EX-SW-0401-H2-PRO can route USB traffic depending on the currently selected source at the receiver.
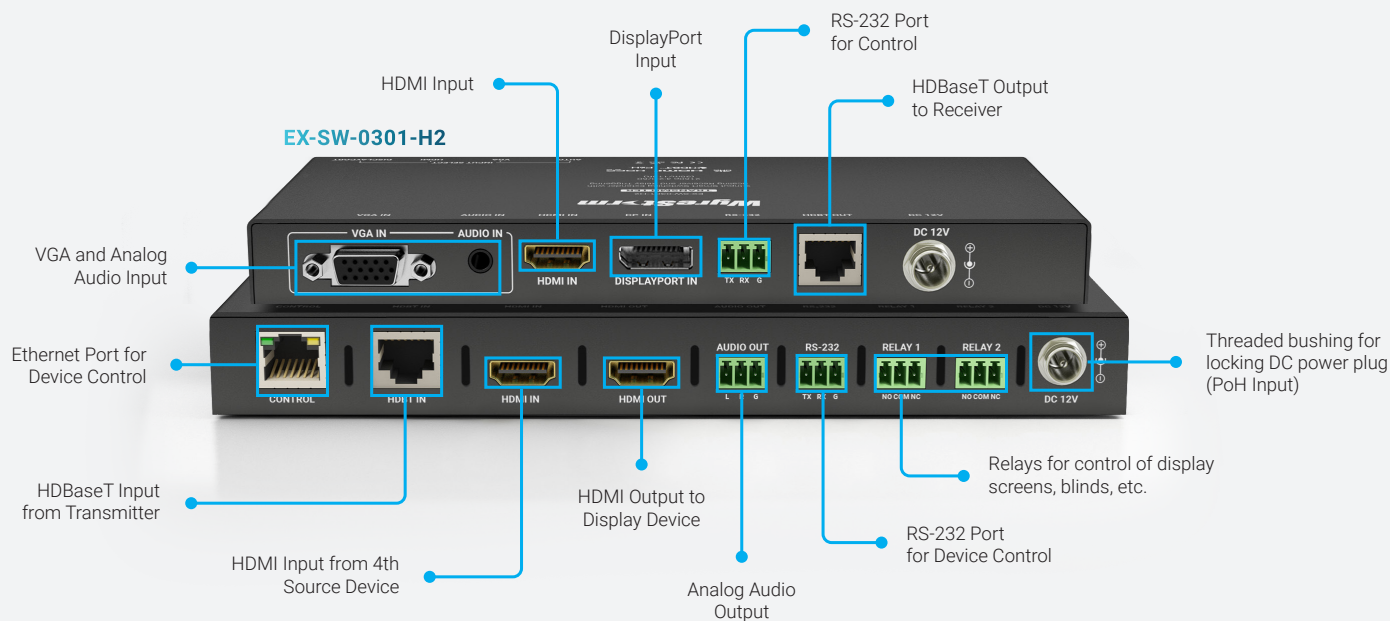
CONDITION-BASED RELAYS

With autonomy in mind, these "meeting-room-in-a-box" solutions can be configured to automatically trigger motorized devices within the room. The relays will open or close depending on the status of the transmitter, meaning that upon a source connection being made, the meeting room will come to life with projector screens appearing and window blinds closing.

4-INPUT SWITCHING EXTENDER

A new flagship in our PRO range and a first for our switching extenders, the EX-SW-0401-H2-PRO brings features of the H2 and PRO products into one powerful meeting space solution. Supporting USB routing to both HDMI and DP inputs, this extender accepts HDMI, DisplayPort and USB-C sources with a VGA +audio input for legacy devices. Proudly carrying the H2 moniker, it will support 4K and even HDCP2.2 protected content.

EX-SW-0301-H2

RS-232 Port for Control

DisplayPort Input

HDMI Input

HDBaseT Output to Receiver

VGA and Analog Audio Input

Ethernet Port for Device Control

Threaded bushing for locking DC power plug (PoH Input)

HDBaseT Input from Transmitter

Relays for control of display screens, blinds, etc.

HDMI Input from 4th Source Device

HDMI Output to Display Device

RS-232 Port for Device Control

Analog Audio Output

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

INPUT	OUTPUT
2	1

2x1 VGA/HDMI Smart Switcher with CEC
SW-0201-4K
- Automatic or manual switching between HDMI and VGA inputs to a single HDMI output
- VGA audio embed
- Automatic or manual trigger of CEC enabled screen
- Contact output for desk plate button control

4K HDMI CEC

2160p 4:4:4 60

INPUT	OUTPUT
4	1+1

4-input 4K/60 HDBaseT Presentation Switcher with DSC, Scaling & USB host (4K: 100m/328ft)
SW-710-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

4K HDR HDBT HDCP 2.2 PoH CEC

INPUT	OUTPUT
3+1	1

3+1 Input HDBaseT Switching Extender with Scaling Receiver and Relay Triggering (4K: 35m/115ft | 1080p: 70m/230ft)
EX-SW-0301-H2
- 3x input HDBaseT switcher/extender for education or huddle room environments
- Featuring HDMI, DisplayPort and VGA inputs with auto/manual switching
- Automatic (condition based) or manually triggered relays on receiver for operation of projector screens or lifts
- Additional HDMI input on receiver for the connection of an additional source device, such as a signage player when a room is not in use
- Automatic or manual control of connected screen or projector via CEC or RS-232
- Control via RS-232, TELNET port on RX or manual push-button
- Compatible with 4K/60 4:2:0 sources and HDCP 2.2

4K UHD HDBT HDMI HDCP 2.2 PoH

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

4K UHD HDBT HDMI HDCP 2.2

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

4K UHD HDBT HDMI HDCP 2.2

TS-280-US

TS-280-EU

2.8" Serial Control Color Touchscreen

TS-280-US | TS-280-EU

- Compact 2.8" backlit color touchscreen available as EU or 2-Gang US models
- Auto power off and wake-on-touch
- Compatible with all WyreStorm presentation switchers/matrices
- Powered directly by compatible switchers or external PSU via power injection box
- User preference configurable
- Easy update via MicroSD
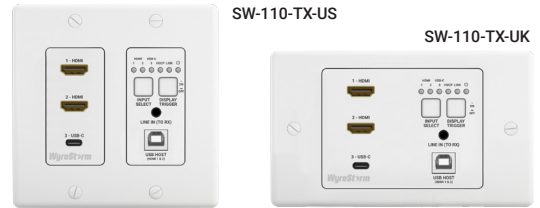
SW-110-TX-US

SW-110-TX-UK

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

SW-110-TX-US | SW-110-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

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

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

EX-SW-0201-4K

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

INPUT	OUTPUT
4	2

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

SW-0402-MV-HDMI

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

System Design Assistance

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

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

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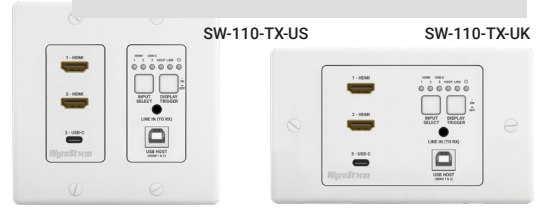
Receiver Options

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

RX-70-POH

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

Remote Input Options

SW-110-TX-US   SW-110-TX-UK

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

SW-110-TX-US | SW-110-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

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

AMP-001-010

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

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

EX-SW-0401-H2-PRO

EX-SW-0301-H2

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.
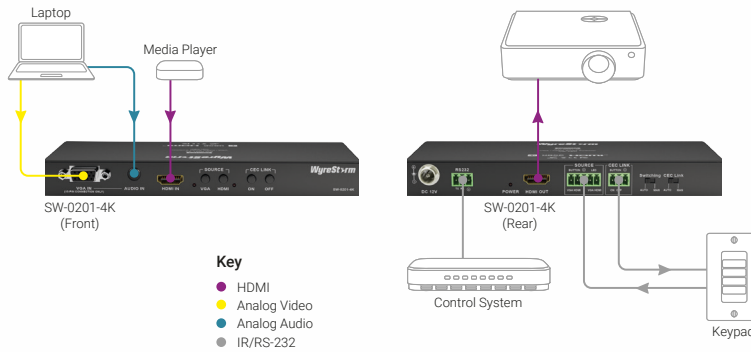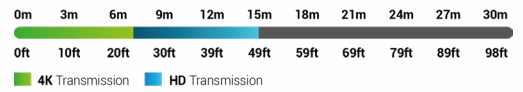
4K UHD · HDBT · HDMI · HDCP 2.2

Presentation Solutions applications

Auto Switching Extender for Small Meeting Rooms & Classrooms

HDMI Cable Performance Guide

0m	3m	6m	9m	12m	15m	18m	21m	24m	27m	30m
0ft	10ft	20ft	30ft	39ft	49ft	59ft	69ft	79ft	89ft	98ft

■ **4K** Transmission ■ **HD** Transmission

Laptop

Media Player

SW-0201-4K
(Front)

SW-0201-4K
(Rear)

Control System

Keypad

Key
- ● HDMI
- ● Analog Video
- ● Analog Audio
- ● IR/RS-232

Auto Switching Extender Solutions for Presentation and Collaboration Spaces

Cat6 Cable Performance Guide

0m	20m	40m	60m	80m	100m	110m	120m	130m	140m	150m
0ft	66ft	131ft	197ft	262ft	328ft	360ft	394ft	427ft	459ft	492ft

■ **4K** Transmission ■ **HD** Transmission

Personal Computer
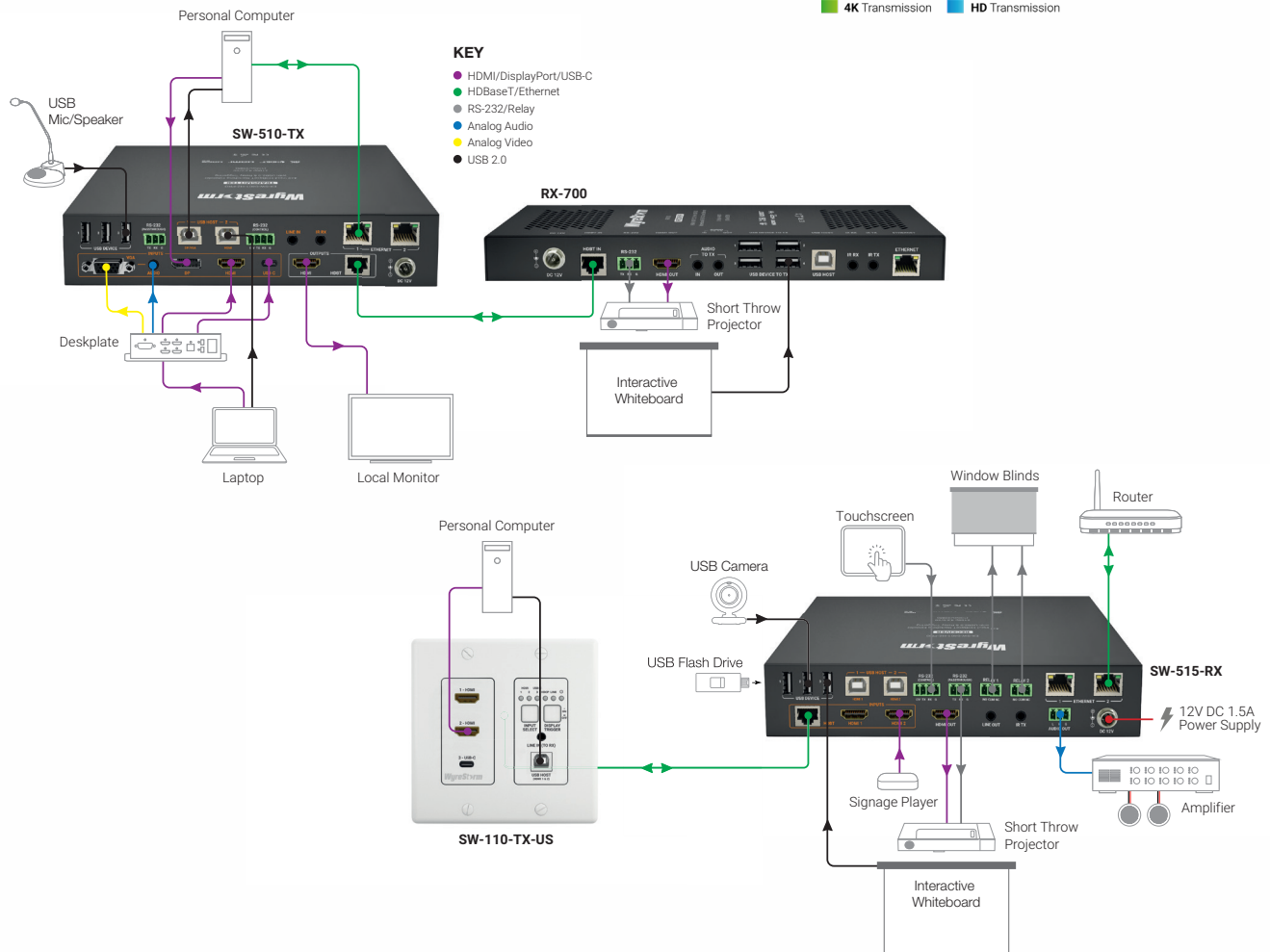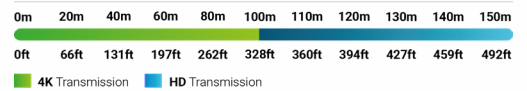
KEY
- ● HDMI/DisplayPort/USB-C
- ● HDBaseT/Ethernet
- ● RS-232/Relay
- ● Analog Audio
- ● Analog Video
- ● USB 2.0

USB Mic/Speaker

SW-510-TX

RX-700

Deskplate

Short Throw Projector

Interactive Whiteboard

Laptop

Local Monitor

Personal Computer

Window Blinds

Touchscreen

Router

USB Camera

USB Flash Drive

SW-515-RX

SW-110-TX-US

⚡ 12V DC 1.5A Power Supply

Signage Player

Short Throw Projector

Amplifier

Interactive Whiteboard

Transmitters and Receivers

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

SW-110-TX-US
SW-110-TX-UK
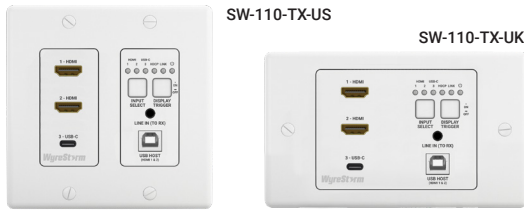
3-Input In-wall HDBaseT Transmitter (2 HDMI, USB-C) with USB Host & CEC trigger

SW-110-TX-US | SW-110-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

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

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

AMP-001-010

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

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

RX-70-POH

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

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

RXV-35-4K

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

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

RXV-70-4K

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

4K HDR 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 2.2 protected content
- PoH enabled for convenient PSU-free installation

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

RXV-70-4K-ARC

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

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

RXF-300-4K

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

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, 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.

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 #44

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?

STRETCH 20.3KG

CRUSH 30.5KG

SLAM 0.4KG

BEND 2.0KG

TWIST 15.2KG

WIND No Break

What Our Customers Say...

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 4:4:4 60 — 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.
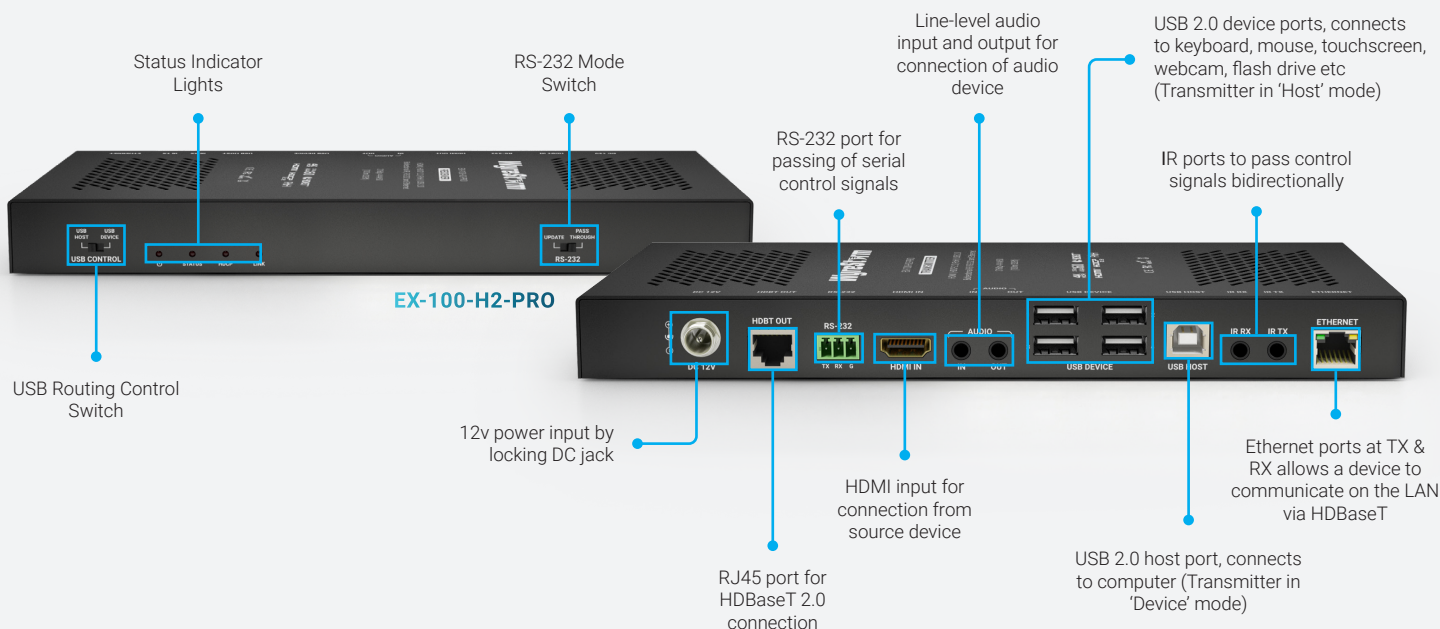
ENHANCED AUDIO WITH ARC

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.

Status Indicator Lights

RS-232 Mode Switch

Line-level audio input and output for connection of audio device

USB 2.0 device ports, connects to keyboard, mouse, touchscreen, webcam, flash drive etc (Transmitter in 'Host' mode)

RS-232 port for passing of serial control signals

IR ports to pass control signals bidirectionally

EX-100-H2-PRO

USB Routing Control Switch

12v power input by locking DC jack

HDMI input for connection from source device

Ethernet ports at TX & RX allows a device to communicate on the LAN via HDBaseT

RJ45 port for HDBaseT 2.0 connection

USB 2.0 host port, connects to computer (Transmitter in 'Device' mode)

Please contact your authorized WyreStorm representative or 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 **HDBT™** **HDMI™** **HDCP 2.2** **PoH**

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

2160p 4:4:4 60

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

EX-35-H2

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

4K HDR **HDBT™** **HDMI™** **HDCP 2.2** **PoH**

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

2160p 4:4:4 60

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

EX-35-H2-ARC (REPLACING EX-70-H2X-ARC)

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

4K HDR **HDBT™** **HDCP 2.2** **PoH** **ARC**

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

2160p 4:4:4 60

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
- Class A HDBaseT supports video, multichannel audio, bidirectional IR/RS-232, 2-Way PoH and Ethernet
- EDID adjustment and link strength indicator on transmitter
- Long cable mode support 1080p transmission to 140m/459ft
- 2-way PoH for convenient single PSU installation

4K HDR **HDBT™** **HDMI™** **HDCP 2.2** **PoH**

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

2160p 4:4:4 60

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

EX-70-H2

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

4K HDR **HDBT™** **HDMI™** **HDCP 2.2** **PoH**

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

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

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

EXF-300-H2

• Variable compression supports extension of 18Gbps content for 4K/60 4:4:4 or HDR at 60Hz using multimode fiber up to 300m/984ft
• Compatible with latest HDR standards including HLG, HDR-10+ and Dolby Vision
• HDCP 2.2 compliant
• Passes IR or RS-232 control signals bidirectionally
• Ideal for long distance transmission in environments with high-levels of EM or RF interference
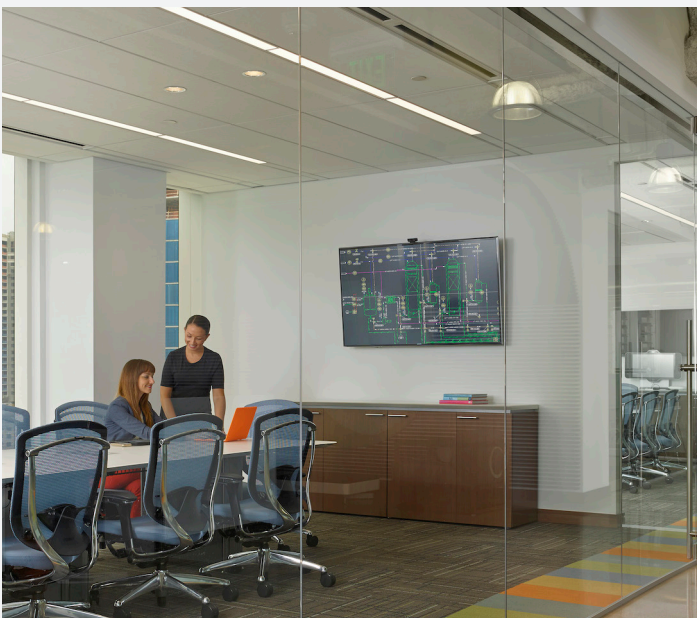
2K	4K UHD	4:4:4/60
100m	100m	100m

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

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

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

EX-SW-0201-4K

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

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

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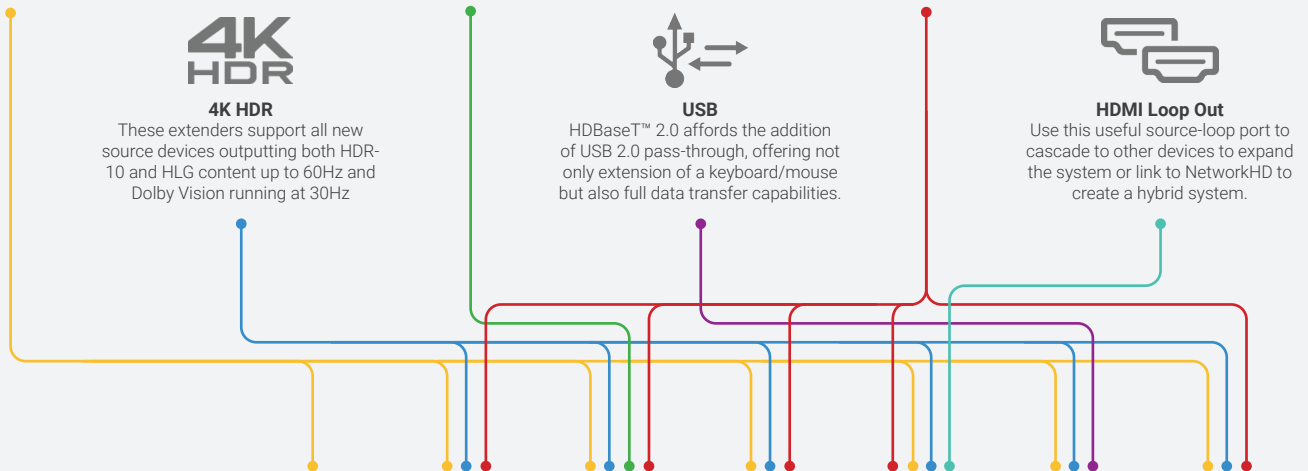We now live in a 4K world; all of our extenders are compatible with the latest 4K/60 4:2:0 and 1080p sources alike.

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

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

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

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

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

	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.

The range doesn't stop there, with the SP-0208-HDBT-H2 splitter offering a mix of transmission options; built-in HDBaseT supports transmission of 4K UHD content up to 70m/328ft from ports 1-2 and 35m/230ft from ports 3-6 with 2 further HDMI outputs for connection to local screens using conventional cables or remote screens up to 50m away using the WyreStorm HAOC optical HDMI cables. With advanced dynamic EDID management added for good measure, the WyreStorm splitter range ensures a reliable & stable distribution solution.

2160p 4:4:4 60   A MYRIAD OF CHOICES

The expansive selection of splitters doesn't stop at 1080p. Now with WyreStorm's H2 lineup of HDMI splitters, the integrator can choose from a broad selection of splitters capable of splitting a source signal up to 4K/60 4:4:4.

GREATER DISTANCES

Further expanding on our HDMI line of H2 splitters is our HDBaseT™ solution. This allows the user to further extend a split signal even further with 3 methods of transmission, including HDMI and both Class B & Class A.
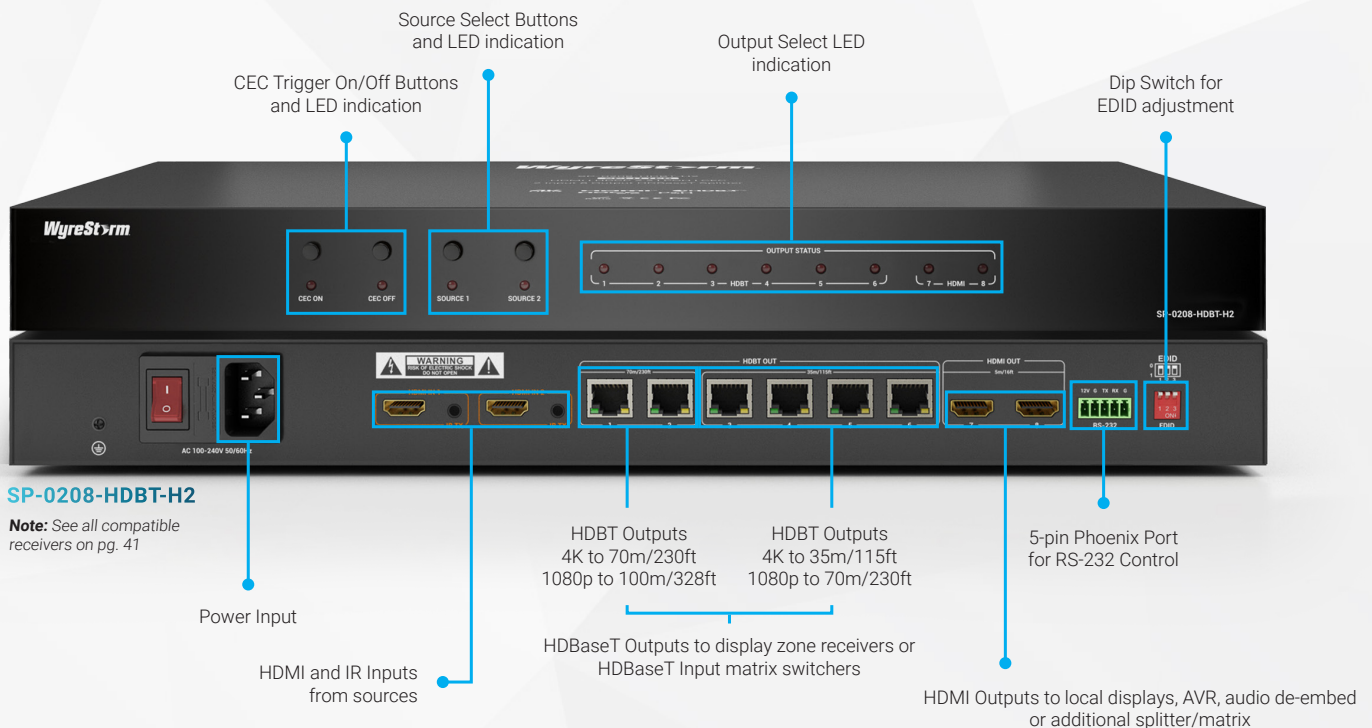
EXPANDED ECOSYSTEM

Our H2 splitters have the powerful ability to be cascaded over multiple splitters or devices to further expand the audio video ecosystem. A must-have in any installers A/V arsenal.

EDID MANAGEMENT

In most of our H2 splitters is the advanced configuration of EDID. This offers an array of EDID's options to choose from, further ensuring a perfect picture from sink to source.

Source Select Buttons and LED indication

Output Select LED indication

CEC Trigger On/Off Buttons and LED indication

Dip Switch for EDID adjustment

SP-0208-HDBT-H2

Note: *See all compatible receivers on pg. 41*

HDBT Outputs 4K to 70m/230ft 1080p to 100m/328ft

HDBT Outputs 4K to 35m/115ft 1080p to 70m/230ft

5-pin Phoenix Port for RS-232 Control

Power Input

HDBaseT Outputs to display zone receivers or HDBaseT Input matrix switchers

HDMI and IR Inputs from sources

HDMI Outputs to local displays, AVR, audio de-embed or additional splitter/matrix

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

INPUT	OUTPUT
1	2

2160p 4:4:4 60

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

- Easy plug and play splitting of a single HDMI 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

INPUT	OUTPUT
1	4

2160p 4:4:4 60

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

- Easy plug and play splitting of a single HDMI 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

INPUT	OUTPUT
1	8

2160p 4:4:4 60

1:8 4K HDR HDMI Splitter
SP-0108-H2

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

INPUT	OUTPUT
1	2 or 4

2160p 4:4:4 60

4K HDR HDMI Splitter with Scaling Outputs
EXP-SP-0102-H2 | EXP-SP-0104-H2

- A true plug and play HDMI signal splitter supporting the highest quality content to 2 or 4 screens
- 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

WyreStorm Essentials

INPUT	OUTPUT
2	2+4+2

COMPATIBLE RECEIVERS (P. 34-35)

RX-70-POH 4K UHD 35m PoH

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

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

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

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2:8 4K HDR Splitter Featuring 6x HDBaseT Outputs
SP-0208-HDBT-H2

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

Premium Cables
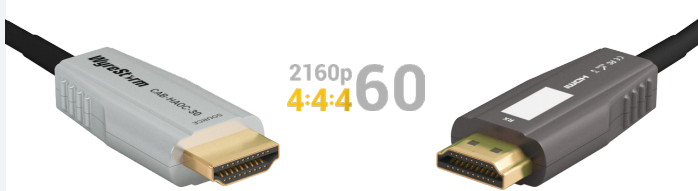
24Gbps 4-core Active Optical HDMI Cable | 4K HDR 4:4:4/60, ARC, CEC, ALLM & VRR | Kevlar strengthened | ISF Certified

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

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 | 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 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

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
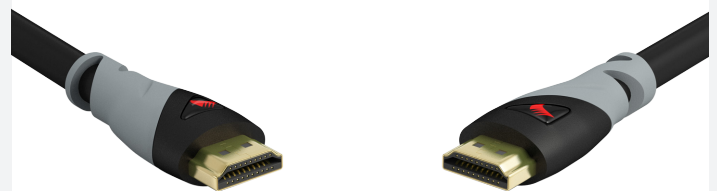
**WyreStorm Essentials High Speed HDMI Cable**

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

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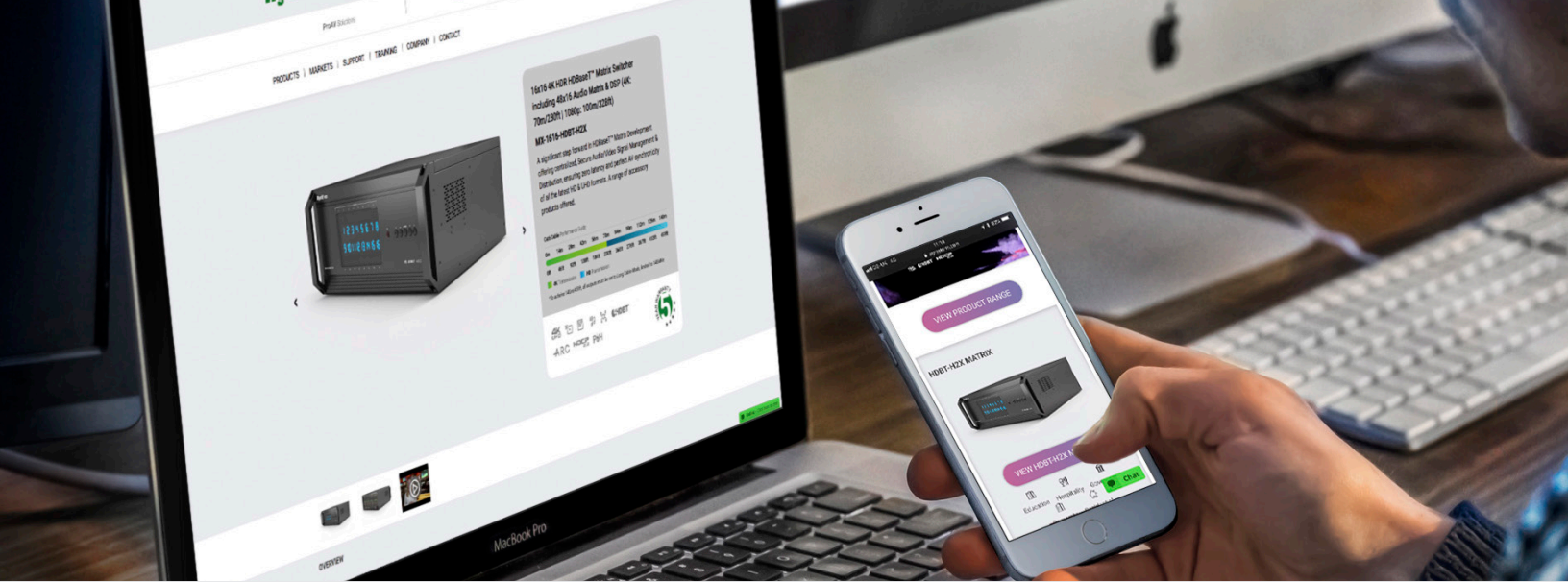
INTRODUCING WYRESTORM.COM

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

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

Multi-Technology. Cross-Market.

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

We've Got You Covered.

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

Get the Knowledge. Get the Facts.

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

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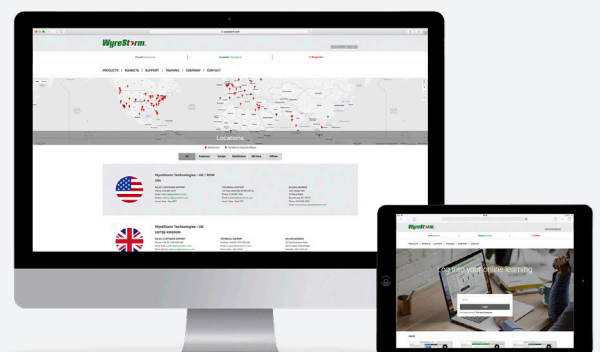
**Online shopping functionality currently available in North America only.

AV Essentials
Made Easy

WyreStorm
Essentials

WyreStorm Essentials has been developed as a simple and affordable line of plug-and-play HDMI distribution products for 4K and HD connectivity in the home. With a wide range of products, WyreStorm Essentials products are ideal for integrating satellite or cable boxes and the latest gaming consoles with consumer display devices.

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-H2-2 | 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
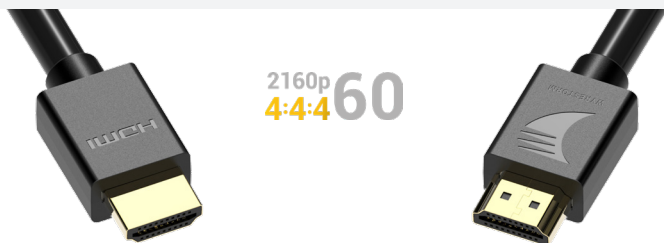
18Gbps Low Profile HDMI Cable
EXP-HDMI-H2-0.5M | 1M | 2M | 3M | 5M

- 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
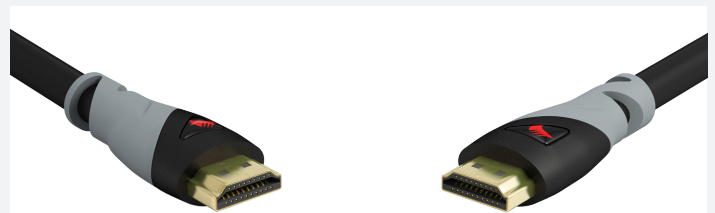
High Speed HDMI Cables
EXP-HDMI-10.0M | EXP-HDMI-15.0M

- 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
3	1

3x1 HDMI Switcher with Remote Control

EXP-SW-0301

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

INPUT	OUTPUT
5	1

5x1 HDMI Switcher with Remote Control

EXP-SW-0501

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

INPUT	OUTPUT
1	2

2160p 4:4:4 60

4K HDR HDMI Splitter with 2 Scaling Outputs

EXP-SP-0102-H2

- A true plug and play HDMI signal splitter supporting the highest quality content to 2 screens
- 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

INPUT	OUTPUT
1	4

2160p 4:4:4 60

4K HDR HDMI Splitter with 4 Scaling Outputs

EXP-SP-0104-H2

- A true plug and play HDMI signal splitter supporting the highest quality content to 4 screens
- 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**

COMING Q2 2020

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**

2160p 4:4:4 60

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

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

COMING Q2 2020

2160p 4:4:4 60

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 | **HDMI** | **HDCP 2.2** | **DOLBY AUDIO**
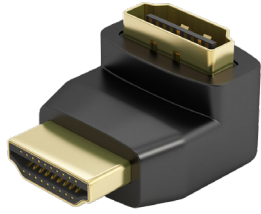
HDMI Right Angled Adapter
EXP-HDMI-RTA
- Adapts 90° HDMI connections for tight spaces
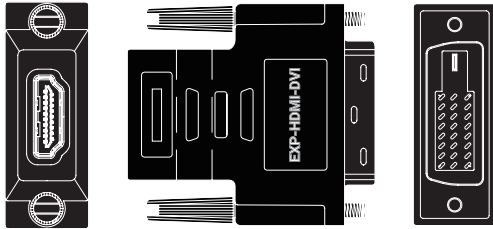- Supports video resolutions up to 4K@60Hz 4:4:4

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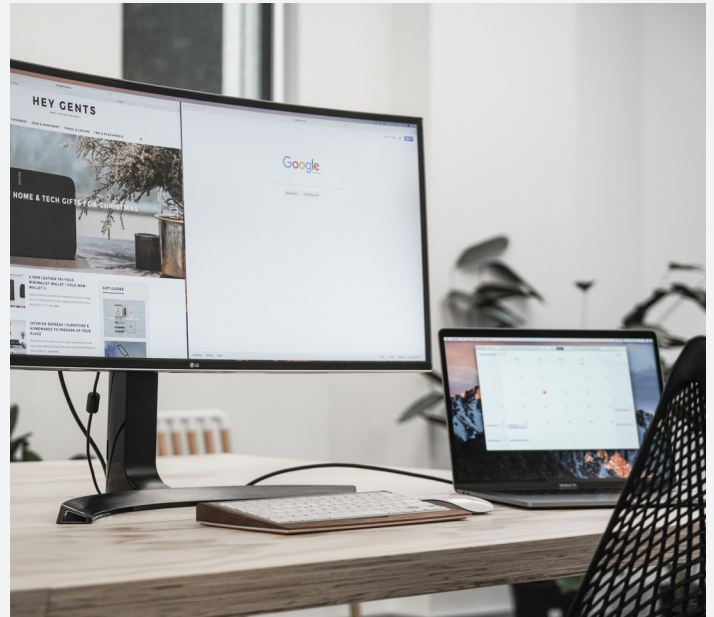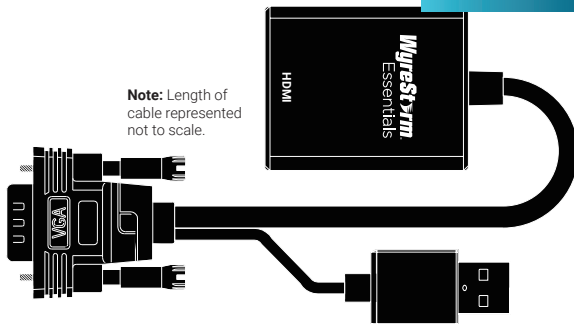- Bidirectional passthrough supporting 4K@60Hz 4:4:4

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

Note: Length of cable represented not to scale.

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

USBC 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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WyreStorm.

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to date with all things WyreStorm.