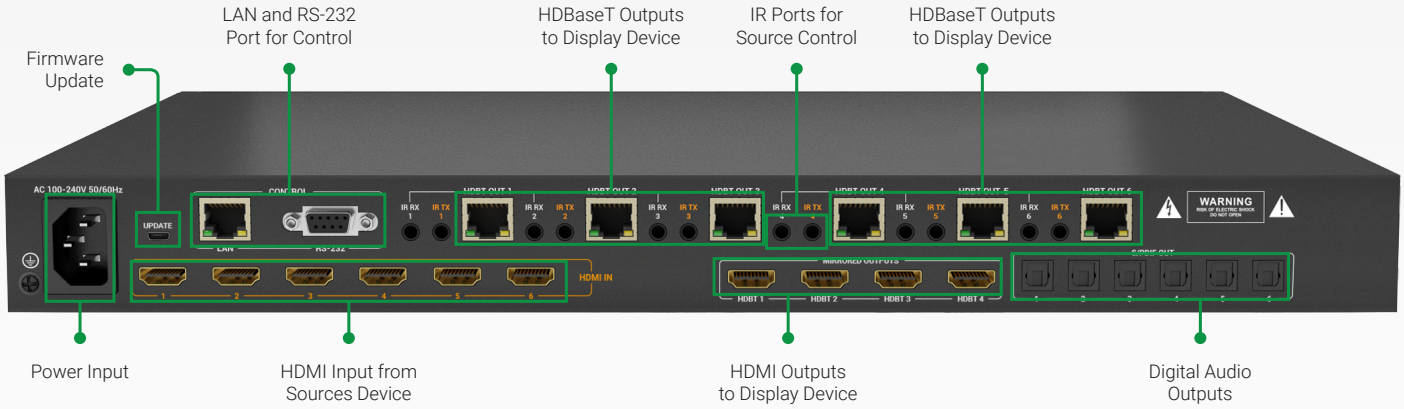
6x6 4K HDR HDBaseT Matrix with 4 Mirrored HDMI Outputs and Audio Breakout

MXV-0606-H2A-70

WyreStorm

Specification Sheet



WyreStorm - Because the Technology Matters.

Introduction

Following the overwhelming success of our newly released MXV range, WyreStorm's MXV-70 range now offers transmission of HDMI content up to 4K/60 4:4:4 & HDR to 70m/230ft, pairing powerful HDBaseT & WyreStorm's variable light compression technology's. The MXV-0606-H2A-70 has 6 HDBaseT zone outputs with PoH and 4 mirrored HDMI outputs which can be paired with WyreStorm's HAOC hybrid optical HDMI cables or any extender for transmission of HDBaseT or OM3 fibre. The MXV-0606-H2A-70 also lets you do even more with your audio, offering audio breakout from either source or output via Toslink optical. CEC triggering for all connected screens and A/V mute function enhances the offering for the modern home or commercial installation.

Key Features

- 4K HDR HDBaseT™ 6x6 Matrix Switch, supporting:
  - Content up to 4K/60 4:4:4 & RGB 8-bit
  - The latest HDR standards, including 60Hz HDR-10 & HLG and Dolby Vision at 30Hz
  - HDCP 2.2 encryption technology ensuring compatibility with the latest 4K UHD content and sources
  - HD Multichannel audio up to DTS:X and Dolby Atmos to all outputs
- Proprietory compression algorithm enables 60Hz 4K UHD content (4:4:4 or HDR) to be sent over HDBaseT to 70m/230ft
- 4 HDMI outputs mirroring HDBaseT Outputs 1-4 for connecting additional slave screens, projectors or AVR's
- HDMI Inputs and HDMI outputs support bandwidths of up to 18Gbps
- Compatible with DVI-I and DP++ v1.3 signals from compatible devices
- 6 Assignable audio outputs allow audio to be independently de-embedded from sources or outputs via Toslink optical.
- Automatic (signal sensing) or manual (API operated) CEC power triggering of all connected screens or projectors (CEC compatibility required)
- A/V Mute function gives complete distribution control to a user allowing the signal to any zone to be independently switched off
- SmartEDID feature also dynamically detects display/source capabilities and automatically outputs the highest possible resolution
- Additional EDID management through DIP switches for global setting or via WebUI for independent management of EDID per source
- Assign a different EDID to each connected source device
- Embedded WyreStorm WebUI enables simple source switching and installer set-up & configuration
- WebUI includes full EDID management to read, copy, store or import EDID from connected devices
- API triggered standby mode places the unit into a low power state allowing for lower power consumption during downtime
- Flexible control options – front panel buttons, infrared remote control, local IR, RS-232, Telnet or WebUI
- 3.5mm jack input for receiving local IR commands out of line-of-sight
- Simple switching matrix remote control included, which can also be learned into a universal remote handset to allow the control of multiple devices from one handset
- 2-way IR for far-end device control from control system or source control from a zone.
- Option for end-user WebUI switching interface
- Compact 1U chassis with adjustable depth rack mounting brackets included
- US, UK, EU & AU Power cables included
- Can be combined with WyreStorm EXP-CON-DAC-D digital audio converter to downmix Dolby Digital 5.1 content to mix stereo and surround sound zones
- Capable of transmitting content to 50m/164ft using WyreStorm HAOC range of hybrid optical HDMI cables

In the Box

1x MXV-0606-H2A-70 Matrix
1 x AC Power Cord with EU pins
1 x AC Power Cord with US pins
1 x AC Power Cord with UK pins
1 x AC Power Cord with AU pins
1x IR Remote (CR2025 Battery not Included)
6x IR Emitter
6x IR Receiver
2x Matrix Mounting Brackets with screws
1x Quickstart Guide

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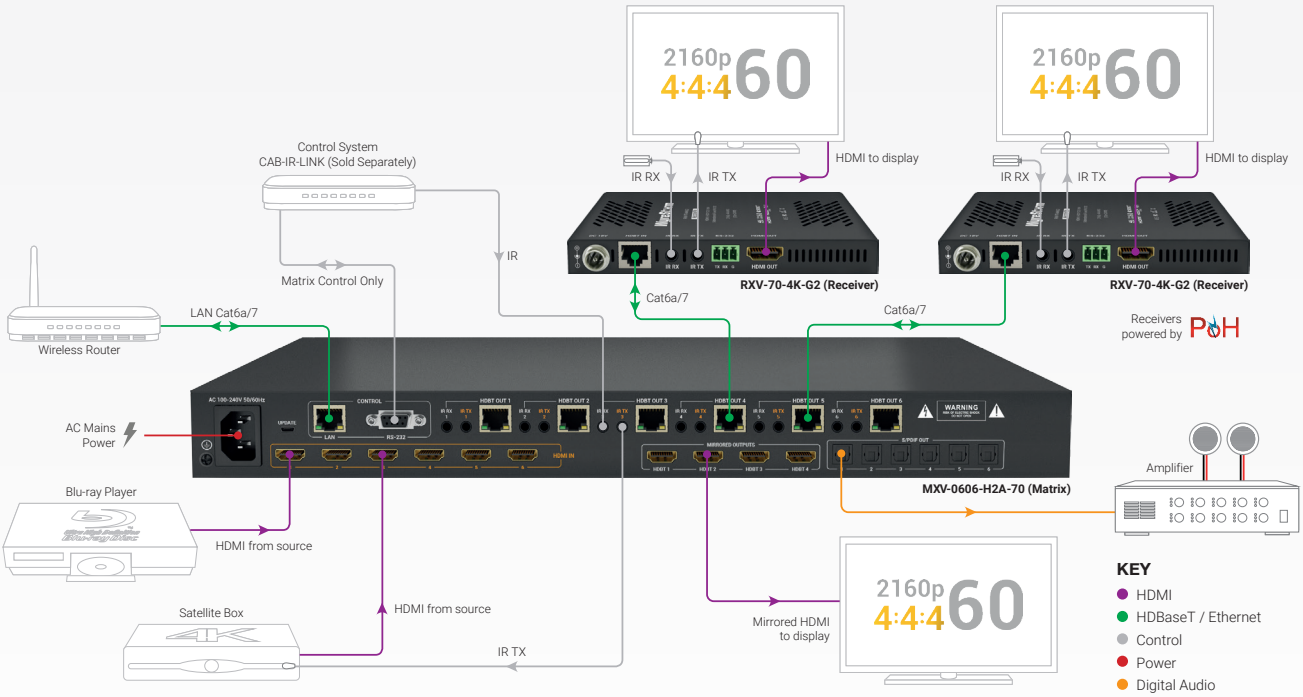
Specifications

Audio and Video				
Inputs	6x HDMI In: 19-pin type A			
Outputs	6x HDBT Out: 8-pin RJ-45 Female 6x S/PDIF Out: TOSLINK (Digital Optical) 4x HDMI Out: 19-pin type A			
Output Video Encoding	HDBaseT Class A			
Encoding Data Rate	9.2Gbps			
End to End Latency (Max)	10µs (micro seconds)			
Audio Formats	S/PDIF: 2ch LPCM | Dolby Digital and DTS up to 5.1ch HDMI: 2ch LPCM | Multichannel up to Dolby Atmos and DTS-X			
Video Resolutions (Max)	**Video Resolution**	**HDMI**	**Cat6**	**Cat6a/7**
	1920x1080p @60Hz 12bit	15m/49ft	100m/328ft	100m/328ft
	1920x1080p @120Hz 12bit	7m/23ft	70m/230ft	100m/328ft
	3840x2160p @24Hz 10bit 4:2:0 HDR	15m/49ft	100m/328ft	100m/328ft
	3840x2160p @30Hz 8bit 4:4:4	7m/23ft	70m/230ft	100m/328ft
	3840x2160p @60Hz 10bit 4:2:0 HDR	5m/16ft	70m/230ft	100m/328ft
	3840x2160p @60Hz 12bit 4:2:2 HDR	5m/16ft	70m/230ft	100m/328ft
	4096x2160p @60Hz 8bit 4:2:0	7m/23ft	70m/230ft	100m/328ft
	4096x2160p @60Hz 8bit 4:4:4	5m/16ft	70m/230ft	100m/328ft
	Note: WyreStorm recommends the use of shielded category cable to minimize signal noise and interference			
Supported Standards	DCI | RGB | HDR | HDR10 | Dolby Vision up to 30Hz | HLG | BT.2020 | BT.2100			
Maximum Pixel Clock	HDMI: 600MHz | HDBaseT: 297MHz			
Communication and Control				
HDMI	HDMI 2.0 | HDCP 2.2 | EDID | CEC Input supports DVI/D and DisplayPort Dual-Mode (DP++) v1.3 with adapter (not included)			
HDBaseT	HDMI 2.0 | HDCP 2.2 | EDID | CEC | 1-way PoH | Bidirectional IR			
CEC	CEC power triggering via API | Requires CEC compatibility			
IR	6x IR RX: 3.5mm (1/8in) TRS Stereo | 6x IR TX: 3.5mm (1/8in) TS Mono			
RS-232	1x RS-232: 9-pin DB9 Female | Matrix Control | Telnet commands supported			
Ethernet	1x LAN: 8-pin RJ-45 Female | Web UI | Matrix Control			
Power				
Power Supply	100~240V AC 50/60Hz			
Max Power Consumption	137W			
Environmental				
Operating Temperature	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing			
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing			
Maximum BTU	467.5 BTU/hr			
Dimensions and Weight				
Rack Units/Wall Box	1U			
Height	43.5mm/1.72in			
Width	440mm/17.33in			
Depth	330mm/13in			
Weight	4.95kg/10.89lbs			
Regulatory				
Safety and Emission	CE | FCC | RoHS | RCM			

Right Product for the Right Application.



Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.