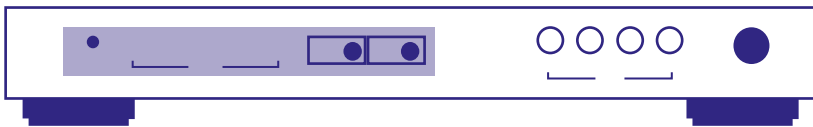


# COMPACT MATRICES

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MX-0402-STD

MX-0404-STD

# COMPANY

## PROFILE

Wyrestorm is an award-winning electronics manufacturer passionately committed to the development and production of high quality HD distribution and control products at the very forefront of digital technology.

We have our own development laboratories based in Europe and Shenzhen, China – a key location in cutting edge technologies considered widely to be the cradle of new trends in global electronics.

With a research and development team ranking among the leading specialists in the HD distribution industry, our innovative solutions are often born from direct industry feedback to ensure our products, features and services are perfectly suited to the ever-growing number of residential and commercial applications.

Here at Wyrestorm we follow a simple but all-encompassing philosophy that colors everything we do: A constant quest for perfection. We devote all our energies and resources to the creation of innovative products and services that allow the integrator to supply a superior entertainment experience for their clients – and do so faster and more efficiently to maximise budget, while minimising time on site.

The best way of achieving this is by talking to and, most importantly, listening to the industry - encouraging observations and suggestions from distributors and integrators that allow us to provide you with the most powerful, reliable and convenient technical solutions you need to constantly surpass your client expectations.

# INTRODUCTION

## TO COMPACT MATRICES

As the demand for playback of multiple High Definition content increases the Wyrestorm compact matrices provide a simple plug and play solution for HDMI to HDMI matrix switching.

The WyreStorm compact matrix models are professional grade matrices equipped with HDMI inputs and HDMI outputs in both 4 by 2 and 4 by 4 variants. With 3D support, IR control and EDID Management.

Whilst small in size, the features available make these matrices ideal for small Residential, Retail AV, commercial and Hospitality installations – especially where space is at a premium.



The WyreStorm MX0402-STD is a simple yet effective 4 input to 2 Output HD matrix switcher that allows up to 4 HDMI sources to be distributed simultaneously to up to 2 displays over standard HDMI cables

### Key Product Features

- Low cost, stripped down full HD Matrix Switcher providing a perfect solution for Home or Retail AV as well as Commercial and Hospitality installations on a budget.
- 2 output models via standard HDMI outs
- 4 HDMI inputs with EDID management adjustment to further encourage device communication for fast, successful installations
- Automatically amplifies and equalises the HD signal for optimum performance with no loss of quality
- 6.75Gbps output bandwidth
- Fully compatible with 1080p HD video and HD multichannel Audio
- 3 methods of control - front panel manual switching, local IR with remote control or remote IR extension at display location (dedicated IR extension cable and IR emitters required)
- With infrared extension and additional IR emitters at source locations, discreet IR call back to control HDMI source or HDMI MATRIX is possible from remote display locations.
- Remote control, IR accessories and mounting brackets included
- HDCP compliant
- HDMI 1.3V
- *If using IR Source control feature, we recommend no duplication of source type due to the global IR feature. If duplicate sources are being used, please consider the PRO or HDBT Lite models as these offer discrete IR routing.*

Operating Temperature Range	-5 to +35°C (-41 to +95°C)
Operating Humidity Range	5 to 90 % RH (no condensation)
Output Bandwidth Signalling Rate	6.75Gbps
Input Video Signal	0.5 - 1.0 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Maximum Single Link Range	1080p 24bit colour depth
Transmission distance	1080p transmission over 15m / 49ft
*Under perfect transmission conditions including straight cable runs with no electrical interference, bends, kinks, patch panels, or wall outlets.	
Video Format Supported	VESA: 640x480, 800x600, 1024x768, 1280x1024, 1600x1200, 1920,1200  DTV/HDTV: 480i/576i/480p/576p/720p/1080i/1080p

Output Video	HDMI v1.2, v1.3
Audio Format Supported	DTS-HD Master Audio, Dolby True HD, multi-channel 5.1, 7.1, stereo
Max. Transmission distance over HDMI	N/A
Max. Transmission distance over Cat5e/6/7	N/A
Power Consumption	10Watts (Max.)
Power Supply	5VDC - from mains
Dimensions	204mm/8.0" (W) 29mm/1.1" (H) 95mm/3.7" (D)
Weight	0.45Kg / 1lb
Rack space required	1U



The bigger brother to the MX0402-STD, the WyreStorm MX0404-STD is an equally simple yet effective 4 input to 4 Output HD matrix switcher that allows up to 4 HDMI sources to be distributed simultaneously to up to 4 displays.

### Key Product Features

- Low cost, stripped down full HD Matrix Switcher providing a perfect solution for Home or Retail AV as well as Commercial and Hospitality installations on a budget.
- 4 output models via standard HDMI outs
- 4 HDMI inputs with EDID management adjustment to further encourage device communication for fast, successful installations
- Automatically amplifies and equalises the HD signal for optimum performance with no loss of quality
- 6.75Gbps output bandwidth
- Fully compatible with 1080p HD video and HD multichannel Audio
- 3 methods of control - front panel manual switching, local IR with remote control or remote IR extension at display location (dedicated IR extension cable and IR emitters required)\*
- With infrared extension and additional IR emitters at source locations, discreet IR call back to control HDMI source or HDMI MATRIX is possible from remote display locations.
- Remote control, IR accessories and mounting brackets included
- HDCP compliant
- HDMI 1.3V
- *If using IR Source control feature, we recommend no duplication of source type due to the global IR feature. If duplicate sources are being used, please consider the PRO or HDBT Lite models as these offer discrete IR routing.*

Operating Temperature Range	-5 to +35°C (-41 to +95°C)
Operating Humidity Range	5 to 90 % RH (no condensation)
Output Bandwidth Signalling Rate	6.75Gbps
Input Video Signal	0.5 - 1.0 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Maximum Single Link Range	1080p 24bit colour depth
Transmission distance	1080p transmission over 15m / 49ft
*Under perfect transmission conditions including straight cable runs with no electrical interference, bends, kinks, patch panels, or wall outlets.	
Video Format Supported	VESA: 640x480, 800x600, 1024x768, 1280x1024, 1600x1200, 1920,1200  DTV/HDTV: 480i/576i/480p/576p/720p/1080i/1080p

Output Video	HDMI v1.2, v1.3
Audio Format Supported	DTS-HD Master Audio, Dolby True HD, multi-channel 5.1, 7.1, stereo
Max. Transmission distance over HDMI	N/A
Max. Transmission distance over Cat5e/6/7	N/A
Power Consumption	12 Watts (Max.)
Power Supply	5VDC - from mains
Dimensions	290mm/11.04" (W) 26mm/1.0" (H) 100mm/3.9" (D)
Weight	0.45Kg / 1lb
Rack space required	1U



At the top of the WyreStorm STD matrix range, the MX0404-STD-RS232 builds on the simple and effective HDMI-only distribution of its two smaller siblings by adding greater control in the form of RS232 connectivity for firmware updates or third party integration.

## Key Product Features

- Enables up to 4 HDMI video/audio devices to be independently switched through up to 4 HDMI displays or projectors for uncompressed digital distribution.
- Quick and easy installation – set up in seconds straight out of the box.
- Each output able to show any connected source simultaneously regardless of whether the input carries HDCP encryption.
- HDMI ports also support DVI signals
- Each Output port can be fed to multiple displays (cascaded).
- Constant HDCP
- Automatically amplifies and equalises the HD signal for optimum performance with no loss of quality
- Reads and copies EDID from connected devices with additional EDID configuration through customisable DIP switch settings for fast, successful installations.
- 2k resolution supported.
- RS232 port for firmware updates or third party control - open source integration protocols available for market leading control systems
- Simple switching remote control included, which can also be learned into a universal remote handset to allow the control of multiple devices from one handset.
- IR 3.5mm mini-jack extension port at rear for local IR control even if unit is housed in an enclosed space or for longer IR connections
- HDMI v1.2, v1.3 supported
- Supports 24Bit Colour depth
- Signalling rate/output bandwidth of 6.75Gbps
- Fully compatible with 1080p HD video and HD multichannel Audio
- Choose from 5 switching modes – front panel buttons, Local remote control, RS232 control (when paired with a extender set), IR call-back (dedicated IR extension cable connected to IR extension port, and IR emitters on sources required)\*
- Key locking to avoid accidental operation.

*\*With infrared extension and additional IR emitters at source locations, discreet IR call back to control HDMI source or HDMI MATRIX is possible from remote display locations – IR signal carried along Cat56 cable*

- Remote control, IR accessories and mounting brackets included
- 19" standard, 1U size for rack installation.

Operating Temperature Range	-5 to +35°C (-41 to +95°C)
Operating Humidity Range	5 to 90 % RH (no condensation)
Output Bandwidth Signalling Rate	6.75Gbps
Input Video Signal	0.5 - 1.0 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Maximum Single Link Range	1080p 24bit colour depth
Transmission distance	1080p signal up to 15m/ 49ft HDMI
*Under perfect transmission conditions including straight cable runs with no electrical interference, bends, kinks, patch panels, or wall outlets.	
Video Format Supported	VESA: 640x480, 800x600, 1024x768, 1280x1024, 1600x1200, 1920,1200  DTV/HDTV: 480i/576i/480p/576p/720p/1080i/1080p

Output Video	HDMI v1.2, v1.3
Audio Format Supported	DTS-HD Master Audio, Dolby True HD, multi-channel 5.1, 7.1, stereo
Max. Transmission distance over HDMI	1080p signal up to 15m/ 49ft HDMI (using good quality HDMI cables) - HDMI to HDMI Coupler can be used to extend HDMI transmission further if need be.
BTU Rating (British Thermal Unit)	75.02
Power Consumption	22Watts (max.)
Power Supply	12VDC - from mains
Dimensions	440mm/17.3" (W) 42mm/1.7" (H) 202mm/7.9" (D)
Weight	2.0 Kg / 4.4lbs
Rack space required	1U



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