

# 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 FORMAT CONVERTERS

Retrofit installations can be complex and difficult to manage due to customer requirements for multiple devices connected via single HDMI, with numerous formats and connections to be catered for.

Wyrestorm Switchers and Scalers overcome that problem by providing multi-format plug and play solutions to get you connected quickly and easily.

Whatever the project requirements, if multiple formats, devices and connectors are an issue, Wyrestorm Switcher and Scaler products can provide efficient and cost-effective remedies for the perfect “get of of jail” installation solution.



The WyreStorm SW-0301 is a three-input-one-output HDMI switch that allows automatic switching of any of the three HDMI inputs to the HDMI output. Compact in size for unobtrusive installation with an innovative adjacent port design for simple plug and play operation.

### Key Product Features

- Compact size
- Auto switching
- No power supply needed
- Distribute any three HDMI input signals to the HDMI output port
- Manual selection button
- Signalling rates up to 6.75Gbits
- Full 1080p compatibility
- Automatic internal equalization and amplification optimises transmission up to 15m HDMI cable distances
- 3db driver pre-emphasis to compensate for PCB losses experienced during transmission
- Each port supports HDMI or DVI signals
- HDCP compliant

### In The Box

- 1 x WyreStorm SW-0801 Switcher
- 1 x 5VDC Power Supply
- 1 x Printed instruction manual\*

\*digital version can be downloaded on website

- 1 x SW-0801 remote control incl. battery (size/type: CR2025 3V)
- 1 x IR RX extension cable - to lengthen range of IR sensor should the unit be enclosed or out of view of the remote handset

### Specifications

Operating Temperature Range	-5 to +35°C (-41 to +95°C)
Operating Humidity Range	5 to 90 % RH (no condensation)
Video Amplifier Bandwidth	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	640*480/60HZ, 800*600/60HZ, 1024*768/60HZ, 1280*768/60HZ, 1280*960/60HZ, 1280*1024/60HZ, 1600*1200/60HZ

Output Video	HDMI 1.3
Audio Format Supported	Stereo audio
Max. Transmission distance over HDMI	1080p transmission over 15m / 49ft - (perfect transmission conditions denote a straight cable run within specified distance range of both product and cable with no obstructions or stress)
BTU Rating (British Thermal Unit)	N/A
Power Consumption	10 Watts (Max.)
Power Supply	5VDC - from mains
Dimensions	62mm/2.4" (W) 62mm/2.4" (H) 19mm/0.7" (D)
Weight	0.04Kg / 0.08lbs
Rack space required	N/A



The WyreStorm CON-CBS-HD composite with stereo audio to HDMI solution converts and upscales a CVBS input with stereo audio to an HDMI output with a resolution of 720p to enable the connection of analog CVBS equipment to the latest digital HDMI displays.

### Key Product Features

- 8 inputs to 1 HDMI output multi-function HD video/audio
- Inputs: 2 x Component YPrPr, 2 x AV with stereo audio, 1 x VGA with separate audio port, 3 HDMI
- Output: HDMI
- Delivers uncompressed digital video with zero signal loss.
- No image or colour distortion
- Simultaneous output - allows display to view any source at any time.
- Full 3D support (Frame Sequential – Blu-ray / Interlaced
- Stereoscopic – satellite/cable broadcasts)
- De-interlaces incoming analogue interlaced signals to progressive output - resolutions 480i and 576i to 480p and 576p on the YPbPr and AV channels.
- Supports high definition resolutions 1080p, 1080i, 720p and standard video formats.
- Two switching modes - manual front panel buttons or via
- IR receiver eye (remote supplied)
- HDMI V1.3 / HDMI V1.4 with 3D
- Mounting brackets supplied

### In The Box

- 1 x WyreStorm SW-0801 Switcher
- 1 x 5VDC Power Supply
- 1 x Printed instruction manual\*

\*digital version can be downloaded on website

- 1 x SW-0801 remote control incl. battery (size/type: CR2025 3V)
- 1 x IR RX extension cable - to lengthen range of IR sensor should the unit be enclosed or out of view of the remote handset

### Specifications

Operating Temperature Range	-5 to +35°C (-41 to +95°C)
Operating Humidity Range	5 to 90 % RH (no condensation)
Video Amplifier Bandwidth	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, 1920x1200  DTV/HDTV: 480i/576i/480p/576p/720p/1080i/1080p

Output Video	HDMI1.4 with 3D (HDMI source must also be 3D to output 3D)
Audio Format Supported	DTS-HD Master Audio, Dolby True HD, multi-channel 5.1, 7.1, stereo
Max. Transmission distance over HDMI	1080p transmission over 15m / 49ft - (perfect transmission conditions denote a straight cable run within specified distance range of both product and cable with no obstructions or stress)
BTU Rating (British Thermal Unit)	34.1
Power Consumption	10 Watts (Max.)
Power Supply	5VDC - from mains
Dimensions	196mm/7.7" (W) 70mm/2.7" (H) 35mm/1.4" (D)
Weight	0.15Kg / 0.3lbs
Rack space required	N/A



The SW-1102 is a multi-function switcher and scaler that allows the conversion of up to 11 multiple format inputs to 2 HDMI outputs up to full HD 1080p video and HD audio. It allows upscaling and switching from standard definition/high definition sources to resolutions up to 720p or 1080p.

### Key Product Features

- HDMI outputs also have separate analog audio outputs
- Allows display to view any source at anytime
- Supports bypass function with VGA and DVI-I ports
- DVI-I supports both analog and digital formats with L/R and optical audio input
- Detached audio output by L/R and optical
- Delivers uncompressed digital video with zero signal loss
- Supports high definition resolutions 1080p, 1080i, 720p and standard video formats
- Scales to 720p or 1080p
- Can by-pass scaling and output as source
- 10-bit triple-ADC for RGB/YPbPr
- Dual switching option: IR control with remote handset and manual front panel control
- Additional Remote control function with RS232 connectivity

### Inputs Supported

- 1 x VGA source
- 1 xS-Video source
- 2 x AV sources with stereo audio
- 2 x YPbPr sources with analog audio
- 4x HDMI sources (with one supporting 5.1 multichannel digital audio)
- 1 x DVI-I source with analog audio and digital audio via optical\*

### Specifications

Operating Temperature Range	-5 to +35°C (-41 to +95°C)
Operating Humidity Range	5 to 90 % RH (no condensation)
Video Amplifier Bandwidth	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, 1920x1200  DTV/HDTV: 480i/576i/480p/576p/720p/1080i/1080p

Output Video	HDMI v1.2
Audio Format Supported	DTS-HD Master Audio, Dolby True HD, multi-channel 5.1, 7.1, stereo
Max. Transmission distance over HDMI	1080p transmission over 15m / 49ft - (perfect transmission conditions denote a straight cable run within specified distance range of both product and cable with no obstructions or stress)
BTU Rating (British Thermal Unit)	51.15
Power Consumption	10 Watts (Max.)
Power Supply	5VDC - from mains
Dimensions	438mm/17.2" (W) 40mm/1.6" (H) 190mm/7.4" (D)
Weight	2.4kg/5.3lb
Rack space required	1U



