

# HDMI OVER IP NETWORK AV EXTENDER SET

NHD-IP-TX, NHD-IP-RX, NHD-IP-CTL



## KEY FEATURES

- Fully Modular System Architecture
- Full HD 1080P JPEG 2000 visually lossless encoding
- Control Centre grade video wall Management
- Power over Ethernet (PoE), USB for KVM, RS232 and Stereo Audio Breakout
- Enado Control & PC software management

WyreStorm NetworkHD is our highest quality HDMI over IP network AV extender set with powerful KVM and video wall functionality. NetworkHD's fully modular system architecture removes the limitations of fixed number of input and output matrix system without compromising quality and reliability.

Configuring the network switches takes minutes and additional transmitters and receivers can be added in seconds whilst Bonjour technology automatically discovers system components to make setup a breeze.

The innovative NHD-IP-CTL controller creates a simple, single interface to configure, manage and control the entire NetworkHD system.

## ADDITIONAL FEATURES & BENEFITS

- HDMI Pass-through
- RS232 & IR control of connected devices
- IP control API & PC software control suite
- HDMI 1.4a compliant
- Extend the transmission distance to at least 100 meters from the sources at 1080p
- USB signal transmission, Support USB 2.0
- HDCP compliant
- Bonjour automatic discovery of system components
- Web based configuration
- Compatible with any Layer 2 Smart switch

## IN THE BOX

### RX

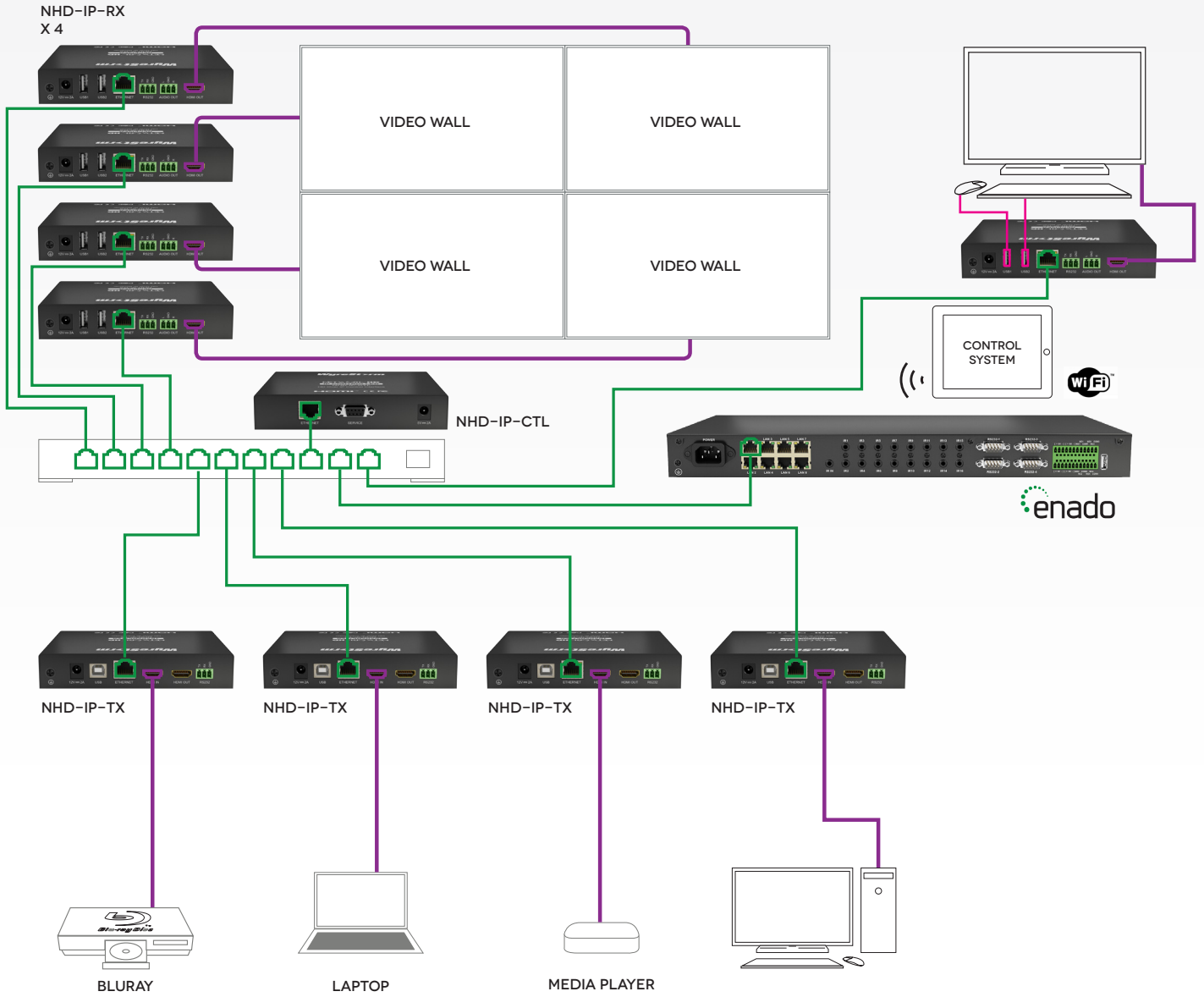
- 1 x Receiver NHD-IP-RX
- 1 x 12V DC Power Supply
- 3 x Phoenix Male Connector
- 2 x Mounting Ears

### TX

- 1 x Transmitter NHD-IP-TX
- 1 x 12V DC Power Supply
- 3 x Phoenix Male Connector
- 2 x Mounting Ears

### CTL

- 1 x Controller NHD-IP-CTL
- 1 x 5V DC Power Supply
- 2 x Mounting Ears



KEY	
	CAT 5e/6 70M/230FT
	HDMI
	RS232
	USB



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## SPECIFICATIONS – NHD-IP-TX TRANSMITTER

<b>Input</b>	1 x HDMI
<b>Input Signal Type HDMI:</b>	HDMI 1.4a w/ HDCP
<b>Input Resolution Support</b>	DTV, HDTV, 1080P,1080i, 720P, 576P, 480P, 576i, 480i
<b>Input Video Level</b>	1.2V p-p
<b>Maximum Pixel Clock</b>	150MHz
<b>Output</b>	1 x HDMI, 1 x Ethernet
<b>Output Signal Type</b>	HDMI: HDMI1.4a w/ HDCP
<b>Output Resolution Support</b>	DTV, HDTV, 1080P,1080i, 720P, 576P, 480P, 576i, 480i
<b>Video Impedance</b>	100ohms
<b>Maximum Transmission Distance</b>	100m/328ft
<b>Input DDC Signal</b>	5 volts p-p (TTL)
<b>Support audio format</b>	Stereo, LPCM 5.1, LPCM 7.1; Dolby True HD, DTS-HD Master Audio
<b>Control method</b>	1 x IR transmitter, 1 x RS232, Ethernet
<b>Operating Temperature</b>	0 to +35°C (32 to +95 °F), 10% to 90%, non-condensing
<b>Storage Temperature</b>	-20 to +70°C (-4 to +158 °F), 10% to 90%, non-condensing
<b>Humidity</b>	10% to 90%, non-condensing
<b>Product Weight</b>	0.45 kg
<b>Power Supply</b>	DC 12V 5A
<b>Power Consumption</b>	5W Max
<b>Product Dimension (H x W x D)</b>	131mm x 115mm x 25mm / 5.16" x 4.53" x 0.98"
<b>ESD Protection</b>	±8kV(Air-gap discharge)/±4kV(Contact discharge)
<b>Surge Protection</b>	IEC 61000-4-4 (EFT) 40A (5/50ns), IEC 61000-4-5 (Lightning) 25A (8/20µs)
<b>System Requirements</b>	HDMI or DVI equipped source devices, displays, AVRs
	Industry standard CAT5e/6/7 cables
	IP receivers N141
	Ethernet switches



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For technical support, contact: US: +1 866 677 0053 EMEA: +44 (0) 1793 230 343

## SPECIFICATIONS – NHD-IP-RX RECEIVER

<b>Input</b>	1 x Ethernet, 4 x USB
<b>Input Signal Type USB:</b>	USB 2.0
<b>Input Resolution Support</b>	480i,576i,480p,576p,720p@50,720p@60,1080p@24,1080i@25,1080i@30,1080p@30,1080p@50, 1080p@60
<b>Input Video Level</b>	1.2V p-p
<b>Maximum Pixel Clock</b>	150MHz
<b>Output</b>	1 x HDMI
<b>Output Signal Type</b>	HDMI: HDMI 1.4a w/ HDCP
<b>Output Resolution Support</b>	480i, 576i, 480p, 576p, 720p @ 50Hz, 720p @ 60Hz, 1080p @ 24Hz, 1080i @ 25Hz, 1080i @ 30Hz, 1080p @ 30Hz, 1080p @ 50Hz, 1080p @ 60Hz
<b>Video Impedance</b>	100ohms
<b>Maximum Transmission Distance</b>	100m/328ft
<b>Input</b>	Embedded in Ethernet input
<b>Supported audio format</b>	Stereo
<b>Output</b>	1x analog stereo
<b>Output Signal Type</b>	Stereo
<b>Output Impedance</b>	75ohms
<b>Control method</b>	1 x IR receiver, 1 x RS232, Ethernet
<b>Operating Temperature</b>	0 to +35°C (32 to +95 °F), 10% to 90%, non-condensing
<b>Storage Temperature</b>	-20 to +70°C (-4 to +158 °F), 10% to 90%, non-condensing
<b>Humidity</b>	10% to 90%, non-condensing
<b>Product Weight</b>	0.45 kg/0.99lb
<b>Power Supply</b>	DC 12V 5A
<b>Power Consumption</b>	5W Max
<b>Product Dimension (H x W x D)</b>	131mm x 115mm x 25mm / 5.16" x 4.53" x 0.98"
<b>ESD Protection</b>	±8kV(Air-gap discharge)/±4kV(Contact discharge)
<b>Surge Protection</b>	IEC 61000-4-4 (EFT) 40A (5/50ns), IEC 61000-4-5 (Lightning) 25A (8/20µs)
<b>System Requirements</b>	HDMI or DVI equipped source devices, displays, AVR Industry standard CAT5e/6/7 cables IP transmitters N131 Ethernet switches



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## SPECIFICATIONS – NHD-IP-CTL CONTROLLER

<b>I/O Connections</b>	1 x RJ45 Port, 1 x RS232
<b>LED</b>	Power LED, Work LED
<b>Button</b>	1 x Reset Button
<b>Power Supply</b>	5V/2A DC, 5.5mm
<b>Power Consumption</b>	1.4Watts
<b>Control Method</b>	Web; Telnet; Third-party Control System
<b>System Requirements</b>	RS232 Cables Industry Standard CAT5e/6/7 Cables
<b>Supported TX/RX</b>	EX0101-N131-000&EX0101-N141-000, EX0101-N363-000&EX0101-N373-000, EX0101-N383-000,
<b>Operating Temperature</b>	32°F to 95°F (0°C to 35°C) 10% to 90%, non-condensing
<b>Storage Temperature</b>	-4°F to 140°F (-20°C to 70°C) 10% to 90%, non-condensing
<b>ESD Protection</b>	±8kV (air-gap discharge) ±4kV (contact discharge)
<b>Surge Protection</b>	Voltage: ±1000 V
<b>Dimension (W x H x D)</b>	141mm x 115mm x 26mm / 5.6" x 4.5" x 1"
<b>Weight</b>	0.42kg / 0.92lbs (without accessories)
<b>Certification</b>	CE, FCC, RoHS



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