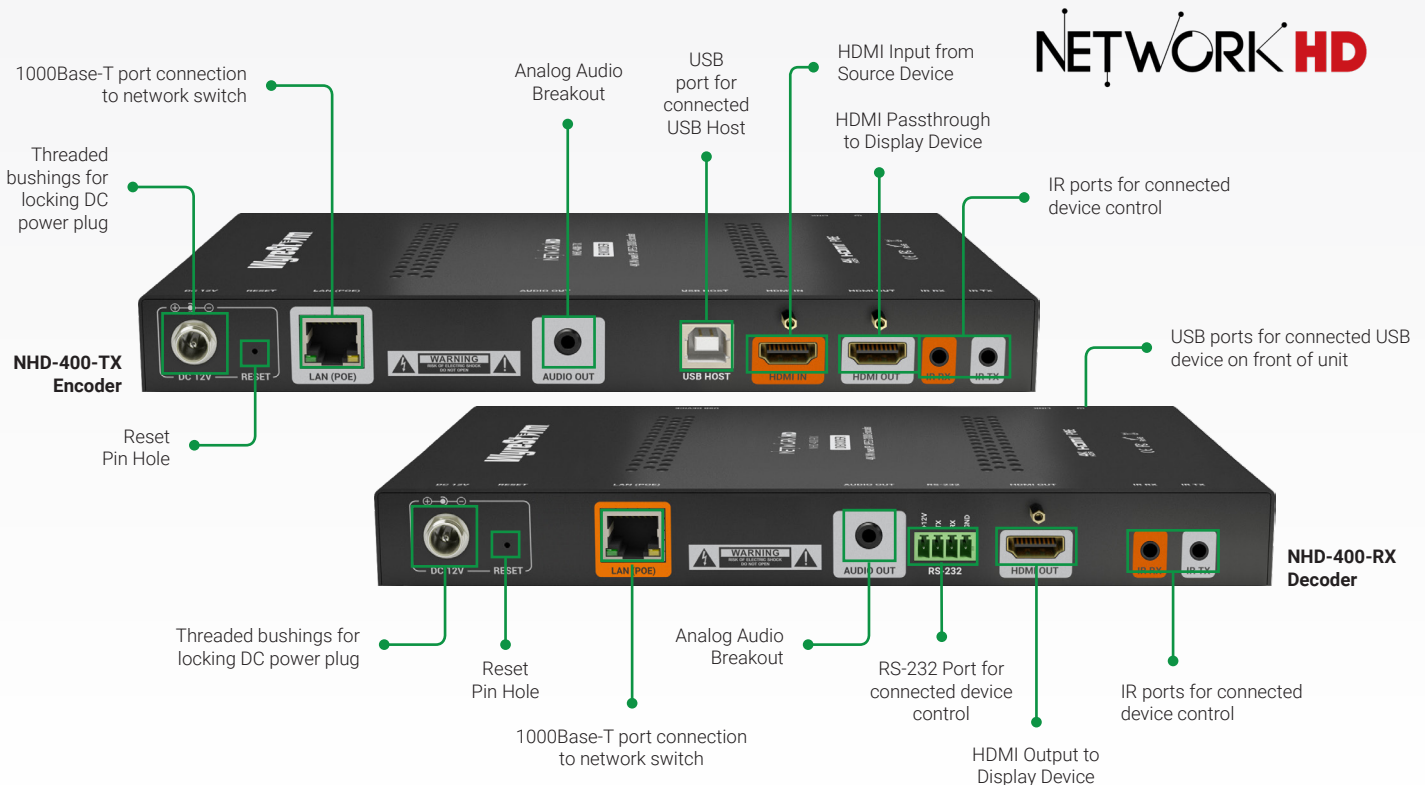


WyreStorm NetworkHD 400 Series 4K AV over IP JPEG 2000 Encoder and Decoder

NHD-400-TX | NHD-400-RX

WyreStorm

Specification Sheet



WyreStorm - Because the Technology Matters.

Introduction

The WyreStorm NetworkHD 400 Series offers stunning 4K HDR video, multi-channel audio and powerful scaling to seamlessly handle mixed 4K and 2K components. Featuring incredibly low latency, the 400 Series is an 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.

Key Features

- Stunning visually lossless 4K UHD video with HDR and multichannel audio up to DTS:X & Dolby Atmos
- Image scaling - use a mix of 4K & 1080p displays throughout the install
- Ultra-low latency – only a single frame of video (16ms @ 60fps)
- Flexible routing of all signals. True breakaway of video, audio, IR, RS-232 and USB for custom signal routing between endpoints
- CEC One-Touch Play & Standby, bidirectional IR or RS-232 control of connected devices, plus USB passthrough
- Fully HDMI & HDCP 2.2 Compliant
- Up to 16x16 video walls with image rotation
- Easy network setup using standard L2+ or L3 managed PoE switches
- Custom "No Source" idle image upload for branded down time
- Support all SD, HD and UHD video formats - including interlaced content
- NetworkHD Touch™ iPad control app with live video preview and integration with major control systems including WyreStorm Enado

In the Box

1x NHD-400-TX Encoder or 1x NHD-400-RX Decoder
1x 12V DC 1A Power Supply (US/UK/EU)
2x Wall Mounting Brackets
2x Rack Mounting Brackets

1x IR Emitter
1x IR Receiver
1x Quickstart Guide

Specifications

Audio and Video		
	Encoder (TX)	Decoder (RX)
Inputs	1x HDMI In: 19-pin HDMI Type A	1x 8-pin RJ-45 (Transmission from TX)
Outputs	1x HDMI Out: 19-pin HDMI Type A 1x Audio Out: 3.5mm (1/8in) TRS Stereo 1x 8-pin RJ-45 (Transmission to RX)	1x HDMI Out 19-pin type A 1x Audio Out: 3.5mm (1/8in) TRS Stereo
Output Video Encoding	JPEG 2000	
Encoding Data Rate	Max: 850Mbps	
End to End Latency (Max)	1 video frame latency (pass-through mode) 16ms @60fps 2 video frames latency (scaler/VW mode) 33ms @60fps	
Audio Formats	2ch LPCM Multichannel: LPCM up to 7.1 and up to DTS:X and Dolby Atmos	
Video Resolutions (Max)	Input at TX 1280x720p @50/59.94/60Hz 12bit 4:4:4 RGB 1920x1080i @29.97/30Hz 12bit 4:4:4 RGB 1920x1080p @23.98/24/25/29.97/30/50/59.94/60Hz 12bit 4:4:4/RGB 12b 3840x2160p @23.98/24/25/29.97/30Hz 10/12bit 4:2:2/4:2:0 HDR-10 3840x2160p @23.98/24/25/29.97/30Hz 8bit 4:4:4 RGB 3840x2160p @50/59.94/60Hz 8bit 4:2:0 720x480p @59.94/60Hz 12bit 4:4:4 RGB 720x576p @50Hz 12bit 4:4:4 RGB 60fps Progressive 4:4:4/RGB: 640x480 800x600 1024x768 1280x800 1280x960 1280x1024 1360x768 1366x768 1400x1050 1440x900 1600x1200 1680x1050 1920x1200	
	Output at RX	Scaler mode (always RGB 8bit)
	Pass-through mode (always RGB)	Up to 3840x2160p @30Hz Up to 1920x1080p @60Hz
	Up to 3840x2160p @30Hz 8bit HDR-10 Up to 1920x2160 @60Hz 12bit	
Maximum Pixel Clock	300 MHz	
3D	HDMI 1.4b 3D: TnB, SbS, F.P	
Communication and Control		
HDMI	HDCP 2.2 CEC	
Ethernet	1x LAN (PoE): 8-pin RJ-45 ANSI/TIA-568 8P8C, 1000Base-T, PoE PD (IEEE 802.3af)	
USB (Version 2 Only)	RX: 2x USB Device: USB Type A TX: 1x USB Host: USB Type B	
IR	1x IR TX: 3.5mm (1/8in) TS Mono 1x IR RX: 3.5mm (1/8in) TRS Stereo Bidirectional Over Ethernet	
RS-232	1x RS-232: 4-pin Phoenix 2 Way (RX only)	
Power		
Power Supply	12V DC	
PoE	IEEE 802.3af (15.4W at PSE)	
Max Power Consumption	8W (with PSU)	
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	51.18 BTU/hr	
Dimensions and Weight		
Rack Units/Wall Box	<1U flat on shelf 6U in NHD-000-RACK4	
Height	25mm/1in	
Width	220mm/8.67in	
Depth	130mm/5.12in	
Weight	0.75kg/1.65lbs	
Regulatory		
Safety and Emission	CE FCC RoHS	

Right Product for the Right Application.

