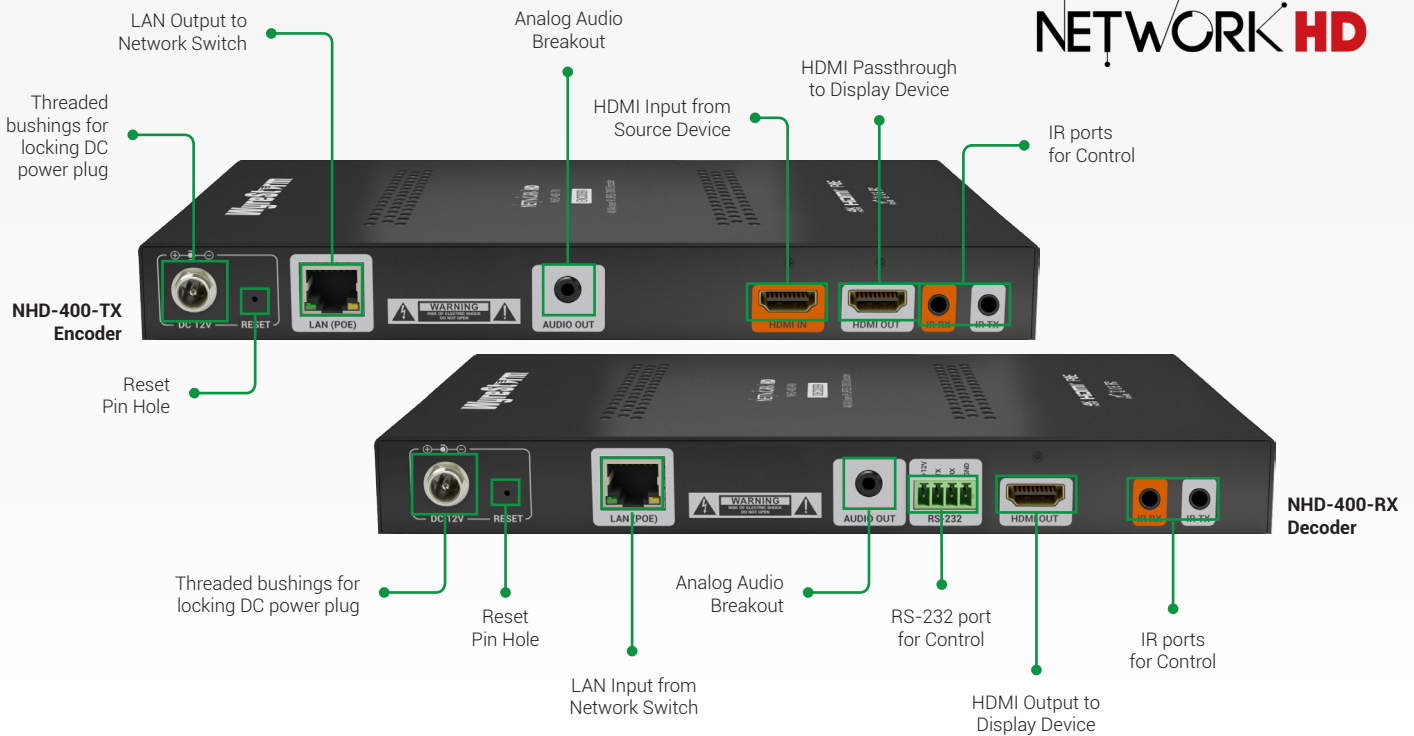


WyreStorm NetworkHD 400 Series 4K AV over IP JPEG-2000 Encoder and Decoder

NHD-400-TX | NHD-400-RX



Specification Sheet



WyreStorm - Because the Technology Matters.

Introduction

The new WyreStorm NetworkHD 400 Series offers stunning 4K HDR video, multi-channel audio and auto-scaling to seamlessly handle mixed 4K and 2K components. Featuring incredibly low latency, the 400 Series is 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 Multi-channel audio up to DTS:X & Dolby ATMOS
- Image scaling - use a mix of 4K & 1080p displays throughout the install
- Ultra-low latency – less than a single frame
- Powerful Audio matrix functionality - route audio separately from video to any decoder
- Fully HDMI & HDCP 2.2 Compliant
- CEC One-Touch Play & Standby, Bi-directional IR or RS232 control of connected devices
- Up to 16 x 16 video wall with rotation for portrait walls and image flipping
- Easy network set-up using standard L2 managed Luxul AMS and Cisco SG series 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
- Powerful Audio matrix functionality - route audio separately from video to any decoder
- Custom "No Source" idle image upload for branded down time

In the Box

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

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

Specifications

Audio and Video	
Inputs	TX: 1x HDMI In: 19-pin HDMI type A female RX: 1x 8-pin RJ-45 female - 10/100/1000 Mbps auto-negotiating
Outputs	TX: 1x HDMI Out: 19-pin HDMI type A female TX/RX: 1x Audio Out: 3.5mm (1/8in) TRS Stereo Jack
Output Video Encoding	JPEG2000
Encoding Data Rate	Max: 850Mbps - Typical: 150~300Mbps
End to End Latency (Max)	1 frame latency 720p @60fps: 16ms 1080i @30fps: 33ms 1080p @60fps: 16ms 2160p @30fps: 33ms
Audio Formats	2ch PCM Multichannel: LPCM and Up to DTS-X and Dolby Atmos
Video Resolutions (Max)	HDMI 640x480i @60Hz 8bit (15m/50ft) 1280x720p @60Hz 10bit (15m/50ft) 1920x1080i @60Hz 12bit (15m/50ft) 1920x1080p @60Hz 12bit (15m/50ft) Input: 3840x2160p @60Hz 4:2:0/4:4:4 8bit (7m/23ft) @24Hz 4:2:0 HDR 10bit (3m/9.8ft) Output: 3840x2160p @30Hz 4:4:4 8bit (7m/23ft) @24Hz 4:2:0 HDR 10bit (3m/9.8ft) Using Cat6/6a/7 640x480i @60Hz 8bit (100m/328ft Point to Point) 1280x720p @60Hz 10bit (100m/328ft Point to Point) 1920x1080i @60Hz 12bit 1920x1080p @60Hz 12bit (100m/328ft Point to Point) Input: 3840x2160p @60Hz 4:2:0/4:4:4 8bit @24Hz 4:2:0 HDR 10bit (100m/328ft Point to Point) Output: 3840x2160p @30Hz 4:4:4 8bit @24Hz 4:2:0 HDR 10bit (100m/328ft Point to Point)
Color Depth	1080p: 16bit 4K UHD: 8bit HDR @24p: 4:2:0 10bit BT.2020
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 female 10/100/1000Mbps
IR	1x IR TX: 3.5mm (1/8in) TS Mono Jack 1x IR RX: 3.5mm (1/8in) TRS Stereo Jack Bidirectional Over Ethernet
RS-232	1x RS-232: 4-pin Phoenix Connector 2 Way (RX only)
Power	
Power Supply	12V DC 1A
PoH	Standard
Max Power Consumption	15W
Environmental	
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C) 10% ~ 90%, non-condensing
Storage Temperature	-4°F to ~ 158°F (-20°C ~ +70°C) 10% ~ 90%, non-condensing
Maximum BTU	51.18 BTU/hr
Dimensions and Weight	
Rack Units/Wall Box	0.56U Flat on Shelf 6U when rack mounted in NHD-000-RACK2
Height With Without Feet	N/A 25mm/0.99in
Width With Without Brackets	250mm/9.85in 220mm/8.67in
Depth With Without Handles	N/A 130.4mm/5.14in
Weight	0.75kg/1.65lbs
Regulatory	
Safety and Emission	CE FCC RoHS

Right Product for the Right Application.

