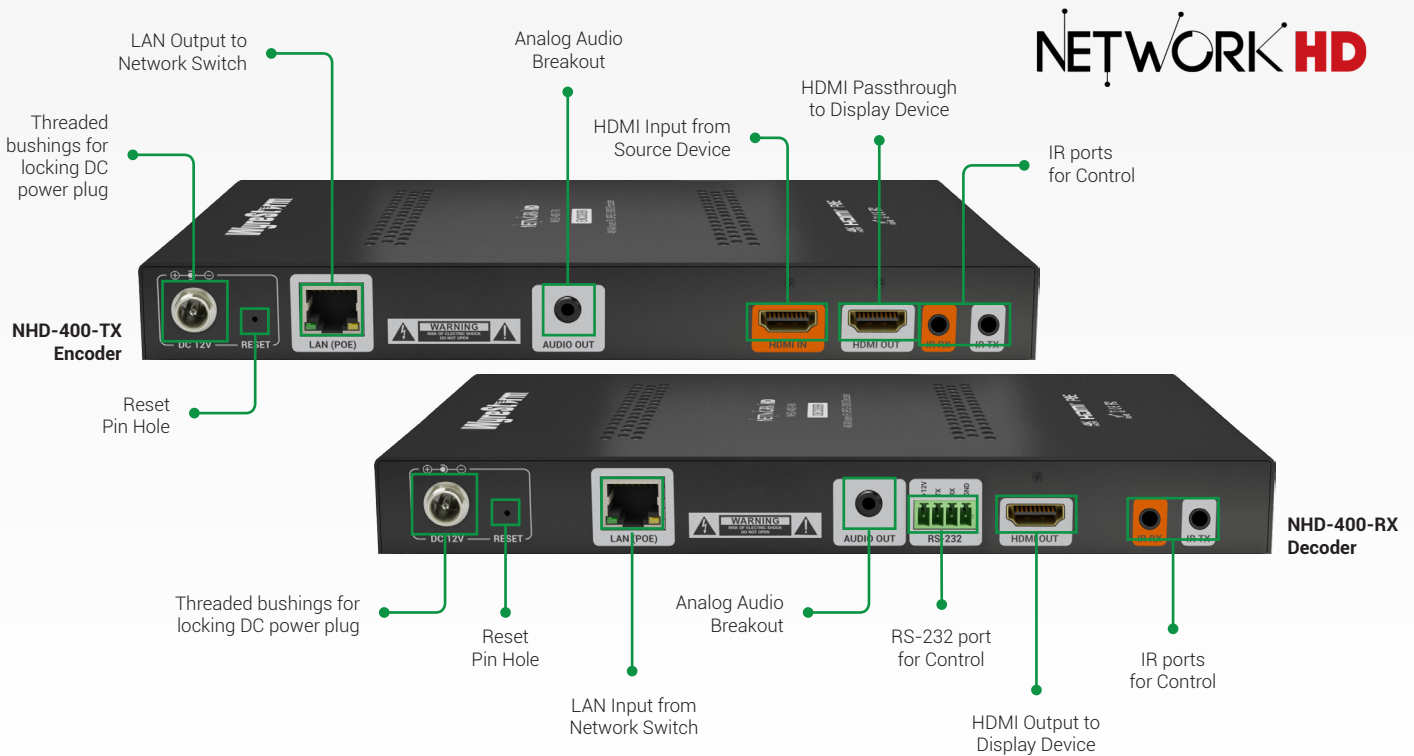


# WyreStorm NetworkHD 400 Series 4K AV over IP JPEG-2000 Encoder and Decoder

NHD-400-TX | NHD-400-RX

# WyreStorm

## Specification Sheet



WyreStorm - Because the Technology Matters.

## Introduction

The 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 small 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
- NetworkHD Touch™ iPad control app with live video preview and integration with major control systems including WyreStorm Enado
- Ultra-low latency – less than a single frame
- Powerful Audio matrix functionality - route audio separately from video to any decoder
- HDMI 2.0, 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

## 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

|                                  |  |
|----------------------------------|--|
| <b>Audio and Video</b>           |  |
| <b>Inputs</b>                    | <b>NHD-400-TX:</b> HDMI 2.0a   <b>NHD-400-RX:</b> HDMI 2.0a  |
| <b>Outputs</b>                   | <b>NHD-400-TX:</b> HDMI 2.0a (thru)   <b>NHD-400-RX:</b> HDMI 2.0a, 3.5mm Mini-Jack  |
| <b>Output Video Encoding</b>     | JPEG-2000  |
| <b>Encoding Data Rate</b>        | Max: 850Mbps - Typical: 50~300Mbps   |
| <b>End to End Latency</b>        | 1 frame latency or less in most cases:<br>4K30Hz up to 30fps = 33ms<br>1080p up to 60fps = 16ms<br>720p up to 60fps = 16ms<br>1080i up to 30fps = 33ms |
| <b>Audio Formats</b>             | 2 Ch LPCM & 8 Ch LPCM   5.1 Ch LPCM (Dolby, Dolby Pro Logic, DTS)   7.1 Ch LPCM (Dolby TrueHD, DTS-HD, Dolby Atmos, DTS:X)                             |
| <b>Video Resolution (Max)</b>    | 480i, 720p, 1080i, 1080p   2160p 4:2:0 @ 24/30fps   2160p 4:2:0 @ 60fps   2160p (YUV4:4:4, YUV4:2:2, RGB) @ 30Hzfps                                    |
| <b>Color Depth</b>               | 1080p and under: 24, 30, 36 bit   2160p: 24 bit  |
| <b>Maximum Pixel Clock</b>       | Up to 300 MHz  |
| <b>HDR (High Dynamic Range)</b>  | 10bit  |
| <b>3D</b>                        | HDMI 1.4b 3D: TnB, SbS, F.P  |
| <b>Communication and Control</b> |  |
| <b>HDMI</b>                      | 2.0a with HDCP 2.2 + CEC for One Touch Play and Standby power control  |
| <b>Ethernet</b>                  | 1000BaseT with POE – NHD-000-CTL control   |
| <b>IR</b>                        | 2 Way  |
| <b>RS-232</b>                    | 2 Way (RX only)  |
| <b>Power</b>                     |  |
| <b>Power Supply</b>              | 12V D.C.   |
| <b>PoE</b>                       | Standard   |
| <b>Max Power Consumption</b>     | 7.5W (Max. 15W)  |
| <b>Environmental</b>             |  |
| <b>Operating Temperature</b>     | 32°F ~ 113°F (0°C ~ 45°C)<br>10% ~ 90%, non-condensing   |
| <b>Storage Temperature</b>       | -4°F ~ 158°F (-20°C ~ +70°C)<br>10% ~ 90%, non-condensing  |
| <b>Maximum BTU</b>               | 25.5 BTU/hr  |
| <b>Dimensions and Weight</b>     |  |
| <b>Rack Units/Wall Box</b>       | Wall box - 5U when rack mounted  |
| <b>Height</b>                    | 220mm/8.66in   |
| <b>Width</b>                     | 130mm/5.11in   |
| <b>Depth</b>                     | 25mm/0.98in  |
| <b>Weight</b>                    | 0.75kg/1.65lbs (Unpackaged)  |
| <b>Regulatory</b>                |  |
| <b>Safety and Emission</b>       | CE   FCC   RoHS  |

Right Product for the Right Application.

