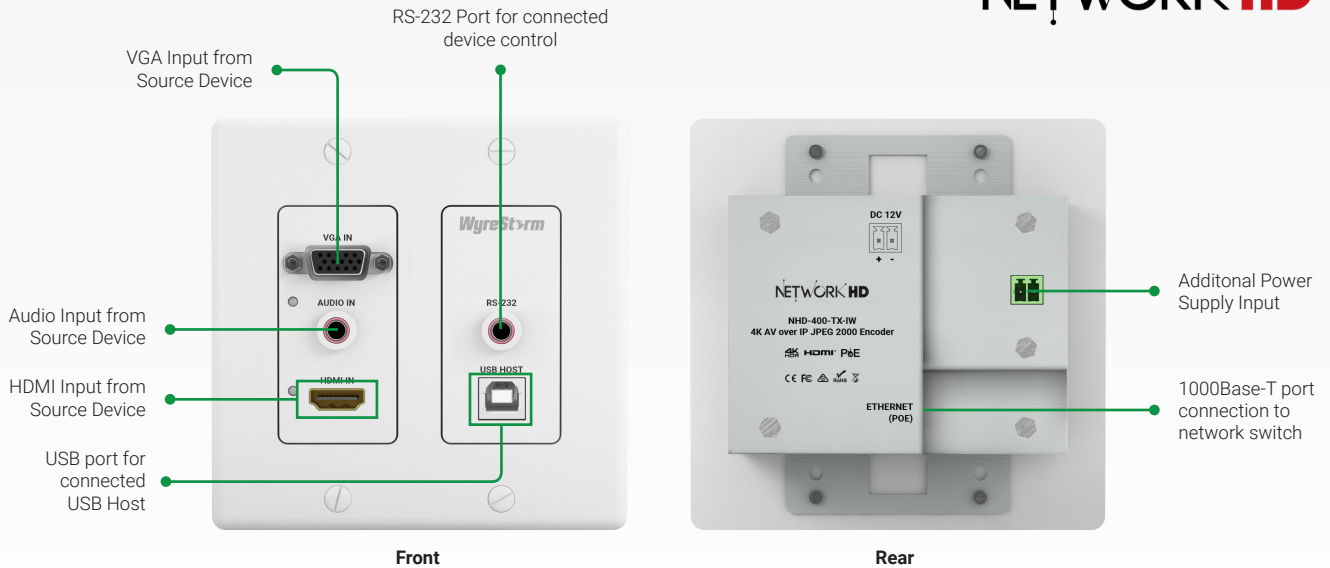


400 Series In-Wall 4K AV over IP JPEG 2000 Encoder NHD-400-TX-IW

NETWORK HD



WyreStorm - Because the Technology Matters.

Introduction

The NHD-400-TX-IW streaming encoder offers stunning 4K HDR video, multichannel audio support and 4K/2K scaling to seamlessly handle mixed resolution HDMI or VGA sources for matrix and video wall functionality. Featuring incredibly low latency, the 400 Series is the ideal AV over IP solution for systems where high quality and low delay are key requirements, making it perfect for demanding commercial applications.

Key Features

- Stunning visually lossless 4K UHD HDMI video with HDR over 1GbE / IP networks
- Ultra-low end-to-end latency – only a single video frame (16ms at 60fps)
- Auto-switching inputs between HDMI and VGA + Audio
- Multi-channel audio including DTS:X & Dolby ATMOS supported over HDMI
- Image scaling with 400 Series decoders - use a mix of 4K & 1080p displays throughout an installation
- Easy network set-up using standard Layer 2 or Layer 3 managed switches
- Hugely scalable I/O, utilizing multicast technology
- Live video unicast preview streams for use with NetworkHD Touch or a custom control UI
- Powerful audio / control matrix functionality - route audio / control separately from video to any decoder
- CEC One-Touch Play & Standby, IR or RS-232 control of connected devices using 400 Series decoder
- 400 Series supports up to 16x16 video walls with image scaling, bezel compensation and rotation
- 400 Series supports custom "No Source" idle image upload for branded down time
- Support all SD, HD and UHD video formats - including interlaced content
- Breakaway, independent routing of all video, audio, IR, USB and RS-232 streams
- Batch firmware update and batch settings functions offers a massive reduction on installation times
- Custom EDID management with import/export
- HDCP 2.2 Compliant
- IEEE 802.3af PoE compliant PD
- Includes optional DC power adapter and decorative bezel

Box Contents

1x NHD-400-TX-IW Encoder
1x 12V DC Power Supply (US | UK | EU)
1x 2-Pin Terminal Block

1x 3.5mm Stereo TRS Plug to 3-pin Terminal Block RS-232 Adapter
1x White Decorative Plate with 4 Screws
1x Quickstart Guide

Specifications

| | |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio and Video | |
| Inputs | 1x HDMI In: 19-pin HDMI Type A 1x VGA In: 15-pin DE-15 Female 1x Audio In: 3.5mm (1/8in) TRS Stereo (VGA only) |
| Outputs | 1x 8-pin RJ-45 (Transmission to RX) |
| Output Video Encoding | JPEG 2000 |
| Encoding Data Rate | Max: 850Mb/s |
| 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 (HDMI Only) |
| Video Resolutions (Max) | HDMI Input 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 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 VGA Input RGB @60Hz Progressive: 640x480 800x600 1024x768 1280x720 1280x768 1280x800 1280x960 1280x1024 1360x768 1366x768 1400x1050 1440x900 1600x900 1600x1200 1680x1250 1920x1080 1920x1200 |
| Maximum Pixel Clock | 300 MHz |
| 3D | HDMI 1.4b 3D: TnB, Sbs, F.P |
| Communication and Control | |
| HDMI | HDCP 2.2 |
| Ethernet | 1x LAN (PoE): 8-pin RJ-45 ANSI/TIA-568 8P8C, 1000Base-T, PoE PD (IEEE 802.3af) |
| USB | 1x USB Host: USB Type B |
| RS-232 | 1x RS-232: 3.5mm (1/8in) TRS Stereo 2 Way |
| Power | |
| Power Supply | 12V DC |
| PoE | IEEE 802.3af (15.4W at PSE) |
| Max Power Consumption | 5.7W (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 | 19.45 BTU/hr |
| Dimensions and Weight | |
| Rack Units/Wall Box | 2-gang US J-Box |
| Height | 107.2mm/4.2in (without decorative plate) |
| Width | 91mm/3.6in (without decorative plate) |
| Depth | 45.5mm/1.8in (without decorative plate) |
| Weight | 0.37kg/0.81lbs |
| Regulatory | |
| Safety and Emission | CE FCC RCM RoHS |

Right Product for the Right Application.

