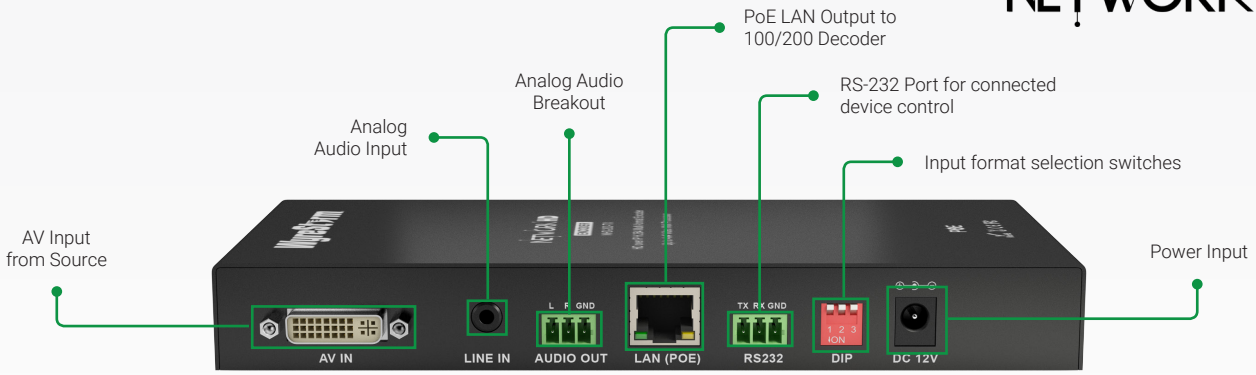
NetworkHD™ 200 Series AV over IP H.264 Encoder

NHD-200-TX

Specification Sheet



NETWORK HD TOUCH HDMI PoE HDCP H.264 DVI-I

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Introduction

The NHD-200-TX is the source device encoder for the NetworkHD™ 200 Series, an ultra low bandwidth H.264 AV over IP solution with all the functionality of the NetworkHD 100 series but with a multi-format DVI-I input supporting transmission of DVI, HDMI, Component and VGA signals.
The NHD-200-TX H.264 encoder is compatible with any NetworkHD 100 or 200 series decoder (sold separately) to provide end-to-end streaming to individual displays or video wall decoding with the NHD-210-RX. It is also compatible with the NHD-000-CTL system controller.

Key Features

- Highly scalable, high quality, low-bandwidth solution using the most efficient compression technologies to allow for very large commercial AV deployments
- NetworkHD Touch iPad control app for live video previews and drag and drop source selection
- Matrix Switching functionality (when paired with a 100 or 200 series decoder)
- Supports video wall processing functionality up to 10x10 screens (with NHD-210-RX)
- Supports Multiview processing functionality for single displays (with NHD-220-RX)
- Plug and Play setup with quick networking configuration and auto discovery of components
- QuickSync™ technology for virtually instantaneous seamless switching
- Dip switch selection of source video format
- Major control systems drivers available including the WyreStorm Enado™ Control System
- Supports secondary video preview stream for PC or third party user interface.
- Use with the new NetworkHD controller (NHD-000-CTL) for matrix control and management via the LAN, as well as for allowing control from third party control system such as AMX, Crestron, Control4, RTI & Enado.
- Supports PoE to be remotely powered by compatible power source equipment, eliminating the need for a nearby power outlet
- Standards-based H.264/MPEG-4 AVC video compression
- Full PC control suite available free of charge at wyrestorm.com
- Supports HDCP
- Configurable encoding bit rate up to 30Mbps

In the Box

1x NHD-200-TX Encoder
1x 12v DC 1A. Power Supply
2x 3-pin Phoenix Connector
2x Mounting Ears
1x Quickstart Guide

** NHD-100-RX Decoder is compatible with both 100 and 200 Series systems and should be specified to decode transmissions to individual video display devices from both NHD-100-TX and NHD-200-TX encoders.*

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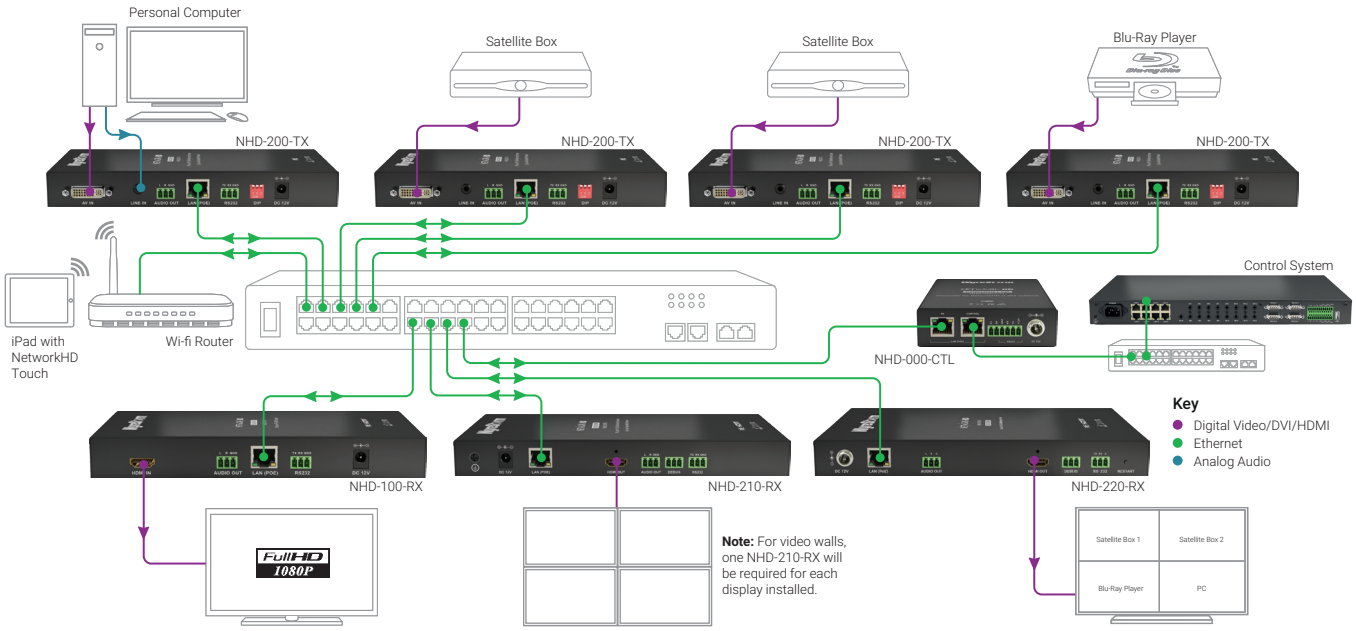
Specifications

Audio and Video	
Inputs	1x AV IN: 24-pin DVI/I | 1x Line In: 3.5mm (1/8in) TRS Stereo
Outputs	1x LAN (PoE) 8-pin RJ-45 female | 10/100Base-T | 1x Audio Out: 3-pin Phoenix
Output Video Encoding	H.264/MPEG-4 AVC
Encoding Data Rate	2~30Mb/s
End to End Latency (Max)	60~90 ms (Low latency mode) | 250~300 ms (High quality mode)
Audio Formats	2ch PCM
Video Resolutions (Max)	**Note:** : Interlaced content at any resolution is not supported, all source content must be progressive. HDMI: 1920x1200p @60Hz 8bit (15m/50ft) **Cat6/6a/7 Output:** 1920x1200p @60Hz 8bit (100m/328ft Point to Point)
Color Depth	8bit
Maximum Pixel Clock	150 MHz
Communication and Control	
HDMI	HDMI | HDCP 1.4
Ethernet	1x 8-pin RJ-45 female | 10/100Base-T | PoE
RS-232	1x RS-232: 3-pin Phoenix
Power	
Power Supply	12V DC 1A
PoE	IEEE 802.3af | 12V 1A 12.95W
Max Power Consumption	6W (DC adapter)
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	20.47 BTU/hr
Dimensions and Weight	
Rack Units/Wall Box	<1U
Height With | Without Feet	25mm/0.98in
Width With | Without Brackets	228mm/8.98
Depth With | Without Handles	111mm/4.37in
Weight	0.6kg/1.32lbs
Regulatory	
Safety and Emission	CE | FCC | RoHS

Right Product for the Right Application.