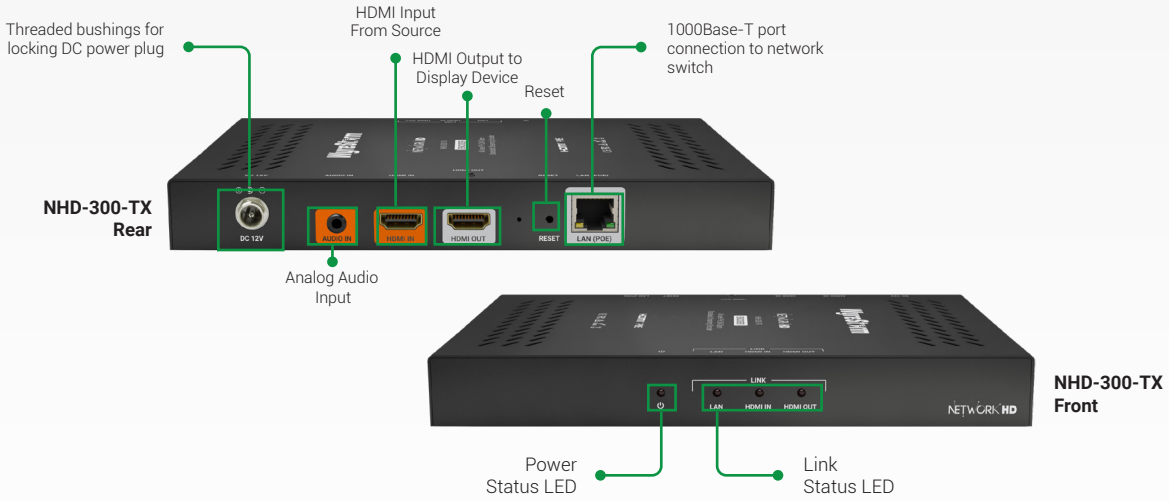
NetworkHD™ 300 Series 1080p AV over IP H.264 Open Standards Encoder

NHD-300-TX

Specification Sheet



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Introduction

The NHD-300-TX is a powerful A/V encoder that allows streaming of 1080p HDMI content over a network in a myriad of ways. By supporting standard protocols such as RTSP, RTMP, Unicast and Multicast, transmissions can be decoded by a broad range of 3rd-party hardware and software solutions. Easily live stream events to popular platforms such as YouTube, Facebook, Wowza, OBS through native options in the powerful Web UI. The NHD-300-TX is great for Schools and Universties to broadcast lessons to students, Churches for sharing services and any application where sharing content over a network is required.

Key Features

- Supports video content up to 1920x1080p @60Hz 8bit
- HDMI loop out for connection to a local monitor or secondary distribution system
- 3.5 mm input for secondary audio encoding separate to HDMI audio
- 802.11af PoE compatibility allows encoder to power from a network switch while retaining 12v DC power for flexible power options
- Low bandwidth H.264 network transmission supports configurable encoding rates between 16Kb/s~12Mb/s
- Flexible audio encoding allows selectable options between MP3 or AAC formats at up to 384Kb/s
- Supports audio sampling rates of 32Khz, 44.1Khz and 48Khz
- Feature rich and intuitive Web UI allowing several customization options and configurations
- Native compatibility with popular platforms such as YouTube, Facebook, Wowza and many more
- Uses standard network streaming protocols such as HTTP, RTSP, RTMP, UDP, Multicast and Unicast
- Small form factor design that is compatible with NetworkHD series rack mounts
- Multiple simultaneous encoded outputs using different stream formats

In the Box

1x NHD-300-TX Encoder
1x Set Wall Mounting Brackets
1x Set Rack Mounting Brackets (NHD-000-RACK4)
4 x Panhead Screws
4x Silicone Feet
1x Quickstart Guide

Note: This encoder is PoE powered. 12v DC power supply available separately.

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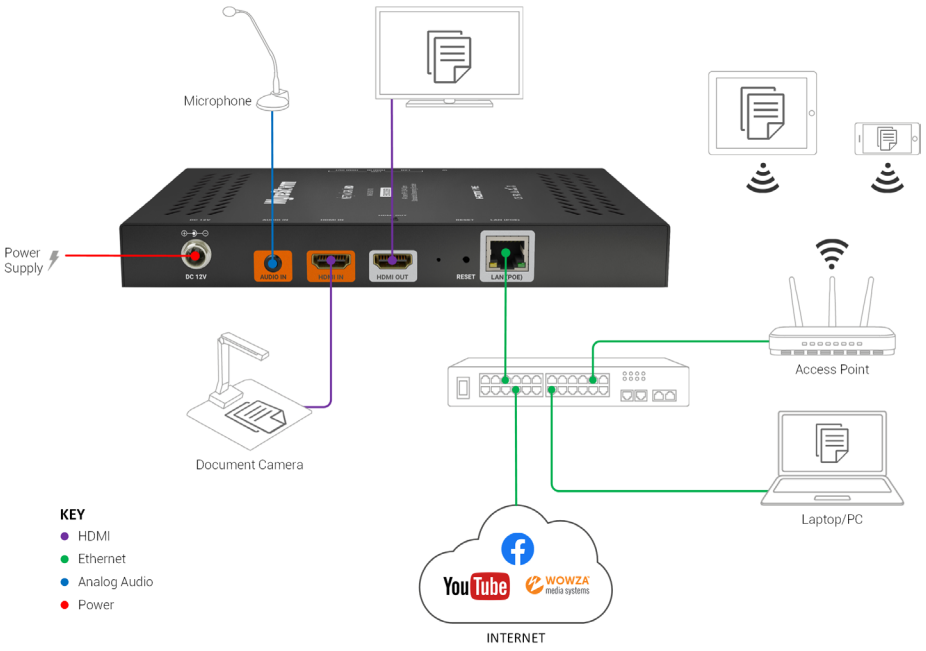
Specifications

Audio and Video	
Inputs	1x HDMI 19-pin HDMI Type A 1x Audio In: 3.5mm (1/8in) TRS Stereo
Outputs	1x LAN (PoE) 8-pin RJ-45 female | 1000Base-T 1x HDMI 19-pin HDMI Type A (Loop out)
Output Video Encoding	H.264
Encoding Data Rate	Max: 12Mb/s (Configurable)
Video Resolutions (Max)	HDMI: 1920x1080p @60Hz 8bit (15m/50ft) Cat6/6a/7: 1920x1080p @60Hz 8bit (100m/328ft Point to Point)
Audio Formats	2ch LPCM @ 32KHz, 44.1KHz, 48KHz
Output Audio Encoding	AAC, MP3 @ 320Kb/s (Max)
End to End Latency (Max)	80ms (TCP/UDP), 1500ms (HTTP)
Maximum Pixel Clock	150MHz
Communication and Control	
HDMI	HDMI 1.4b | HDCP Encryption Not Supported
Ethernet	1x LAN: 8-pin RJ-45 ANSI/TIA-568 8P8C, 1000Base-T, PoE
Network	
Protocols	HTTP, RTSP, RTMP, UDP, Multicast, Unicast, DHCP
Power	
Power Supply	12V DC 2A
PoE	IEEE 802.3af (15.4W at PSE)
Max Power Consumption	3.6W (with PSU)
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	16 BTU/hr
Unit Dimensions and Weight	
Rack Units/Wall Box	<1U flat on shelf | 6U in NHD-000-RACK4 | 1U in NHD-140-RACK-1U
Height	25mm/1in
Width	215mm/8.46in
Depth	142mm/5.59in
Weight	0.65kg/1.41lbs
Regulatory	
Safety and Emission	CE | FCC | RCM | EAC | ROHS

Right Product for the Right Application.



Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.