

NetworkHD 100/200 Series (H.264/5)

NHD-120-TX | NHD-120-RX



In the Box

- 1x NHD-120-TX Encoder
- 2x 3-pin Terminal Block
- 2x Wall Mounting Brackets
- 2x Rack Mounting Brackets
- 1x IR Transmitter
- 1x IR Receiver
- 1x Quickstart Guide

Key Features

- Transmits AV streams up to 4k 30Hz using H.264 or H.265 encoding
- AV streams can be encrypted using an AES 128-bit algorithm
- Compatible with the NHD-000-RACK4 for professional rack mounting of up to 12 encoders per rack
- Powers via PoE from compatible network switch using 802.1af

- Live video preview streams for use with NetworkHD Touch iPad app or a custom control UI
- Analog audio de-embed for easy connection to external audio DSP or amplifier
- Companion Control app compatible for source control

NHD-150-RX



In the Box

- 1x NHD-150-RX Decoder
- 2x 3-Pin Terminal Blocks
- 4x Pair of Wall Brackets
- 1x Pair of Rack Brackets
- 4x Bracket Screws

Key Features

- Powerful processor for displaying multiple video sources on a display
- Capable of processing up to nine 4K30 inputs at the same time
- Touch™ control app for live previews with drag and drop source selection

- Utilizes H.264 and H.265 encoding for visually lossless video distribution
- Audio de-embed, CEC and RS-232 control of connected devices

NHD-124-TX



In the Box

- 1x NHD-124-TX Encoder
- 1x 12V DC Power Supply (US | UK | EU)
- 2x Pair of Wall Brackets
- 2x Pair of Rack Brackets

Key Features

- Ultra-low network bandwidth encoder for 4 simultaneous HDMI inputs
- 4 streams over 1 Ethernet connection
- Seamlessly integrates with NetworkHD 120 Series decoders

- Touch™ control app for live previews with drag and drop source selection
- Up to 100m (328ft) distance over standard Cat5e

NHD-120-IW-TX



In the Box

- 1x NHD-120-IW-TX Encoder
- 1x 3-pin 3.5mm Phoenix Connector for RS-232 (debug)
- 1x 3-pin 3.5mm Phoenix Connector for audio out
- 1x 2-pin 3.5mm Phoenix Connector for power
- 1x IR Transmitter
- 1x Plastic Decora Panel

Key Features

- Transmits AV streams up to 4K 30Hz using H.264 or H.265 encoding
- AV streams can be encrypted using an AES 128-bit algorithm
- 2-Gang US style wall plate
- Powers via PoE from compatible network switch using 802.1af
- Live video preview streams for use with NetworkHD Touch iPad app or a custom control UI
- Analog audio de-embed for easy connection to external audio DSP or amplifier
- Companion Control app compatible for source control
- Ethernet port on the front panel provides a network connection to the source device

NHD-CTL-PRO v2 (Controller)



In the Box

- 1x NHD-CTL-PRO v2 Controller
- 2x NHD-000-RACK4 Brackets
- 4x Wall Brackets
- 1x 6-pin Phoenix Connector
- 1x QuickStart Guide

Key Features

- Auto discovery of all NetworkHD endpoints
- Powerful web-based UI for intuitive control & management
- Isolated AV and control LAN ports for seamless integration into any network
- LED screen for access to system info
- Compact chassis for installation into NHD-000-RACK4

Specifications

Audio and Video			
	NHD-150-RX	NHD-124-TX	NHD-120 Series
Inputs/Outputs	1x 8-pin RJ-45 female Input 1x HDMI Output 1x Audio Out: 3-Pin Phoenix	4x HDMI Input 1x 8-pin RJ-45 female Output	TX
			1x HDMI Input 1x Audio Out: 3-Pin Phoenix
			RX
			1x 8-pin RJ-45 female 1x HDMI Output 1x Audio Out: 3-Pin Phoenix
Output Video Encoding	H.264/H.265	H.264/H.265	H.264/H.265
Encoding Data Rate	H.264: 30Mbps H.265: 5Mbps	H.264: 30Mbps H.265: 5Mbps	H.264: 30Mbps H.265: 5Mbps
Max End to End Latency	1080p LLM: 80ms HQM: 250ms 4K LLM: 150ms HQM: 300ms	1080p LLM: 80ms HQM: 250ms 4K LLM: 150ms HQM: 300ms	1080p LLM: 80ms HQM: 250ms 4K LLM: 150ms HQM: 300ms
Max Video Resolutions	1920x1080p @ 60Hz 3840x2160p @ 60Hz	1920x1080p @ 60Hz 3840x2160p @ 30Hz	1920x1080p @ 60Hz 3840x2160p @ 30Hz 4:2:0 8bit
Communication and Control			
HDMI	HDMI 1.4 HDCP 2.2 EDID CEC	HDMI 1.4 HDCP 2.2 EDID	HDMI 1.4 HDCP 2.2 EDID CEC
Ethernet	1x 8-pin RJ-45 female 10/100/1000Base-T PoE 802.1af	1x 8-pin RJ-45 female 10/100/1000Base-T	1x 8-pin RJ-45 female 10/100/1000Base-T PoE 802.1af
RS-232	1x RS-232: 3-pin Phoenix API Control	N/A	1x RS-232: 3-pin Phoenix API Control
IR	N/A		1x IR TX: 3.5mm TS Mono 1x IR RX: 3.5mm TRS Stereo Routed API Programmable
Security Protocols	AES 128 SSH TLS HTTPS		
Power			
Power Supply	12V DC 1A	12V DC 3A	12V DC 1A
PoE	IEEE 802.3af	N/A	IEEE 802.3af
Power Consumption	3.6W	3.6W	3.6W
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 & Weight	220mm x 130mm x 25mm Weight: 1.25lbs	260mm x 215mm x 25mm Weight: 3.21lbs	NHD-120-TX/RX: 175mm x 100mm x 25mm Weight: 1.25lbs NHD-120-IW-TX (without decora plate) 105.6mm x 90mm x 45.8mm
Regulatory			
Safety and Emission	CE FCC RoHS EAC RCM		

Communication and Control	
	NHD-CTL-PRO v2
Network	2x 1GbE RJ45 (Control & AV)
RS-232	1x RS-232 6-Pin Phoenix Connector
HDMI	Reserved for future use
USB	Reserved for future use
Security Protocols	Telnet Telnet over TLS SSH HTTPS
Power	
Power Supply	12V DC 1A
PoE	802.3af PoE Compliant
Power Consumption	N/A
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	N/A
Dimensions & Weight	Length x Width x Height: 215mm x 120mm x 25mm Weight: N/A
Regulatory	
Safety and Emission	CE FCC RoHS EAC RCM

