

NetworkHD 500 Series (JPEG 2000)

NHD-500-TX v2 | NHD-500-RX v2



Key Features

- HDMI 2.0 encoding/decoding up to 4K60 4:4:4 8bit with Dolby Vision/HDR compatibility
- Ethernet or Fiber connections (550m w/ OM3 MMF or 10km with SMF)
- USB connectivity for extension and routing of USB peripheral devices
- Ultra-low latency transmissions of 3ms

In the Box

- 1x NHD-500-TX or NHD-500-RX
- 1x IR Emitter
- 1x IR Receiver
- 1x Pair of NHD-000-RACK4 Brackets
- 2x Pair of Wall Brackets
- 1x 3-pin Phoenix Connector (for RS-232)
- 1x 5-pin Phoenix Connector (for analog audio)

NHD-510-TX



Key Features

- HDMI/USB-C with 4K@60Hz (4:4:4) and HDCP 2.2 compliance over Gigabit network.
- Supports full function USB-C for video/audio/USB data (Data USB 2.0)
- HDMI Video Loop out from active video input

In the Box

- 1x NHD-510-TX Encoder
- 1x Pair of Rack Brackets
- 2x Pair of Wall Brackets
- 1x 4-pin Terminal Block
- 1x 5-pin Terminal Block

NHD-500-DNT-TX



Key Features

- HDMI 2.0 encoding/decoding up to 4K60 4:4:4 8bit with Dolby Vision/HDR compatibility
- 2CH Dante/AES67 network audio output
- Ethernet or Fiber connections (550m w/ OM3 MMF or 10km with SMF)

In the Box

- 1x NHD-500-DNT-TX Transmitter
- 1x IR Emitter
- 1x IR Receiver
- 4x Wall Mounting Brackets
- 2x Rack Mounting Brackets
- 1x 3-pin Terminal Block
- 1x 5-pin Terminal Block

- USB connectivity for extension and routing of USB peripheral devices
- Ultra-low latency transmissions of less than a single video frame
- High definition preview streams for control system interfaces

NHD-500-E-TX | NHD-500-E-RX



In the Box

- 1x NHD-500-E-TX or NHD-500-E-RX
- 1x IR Emitter (TX only)
- 2x Pair of Wall Brackets
- 1x Pair of Rack Brackets
- 1x 3-pin Terminal Block (RX only)
- 1x 5-pin Terminal Block (TX only)
- 1x Pair of Wall Brackets
- 1x Pair of Rack Brackets

Key Features

- Supports encoding full HDMI 2.0 content up to 4K60 4:4:4 8bit
- Compatible with Dolby Vision, HDR10 & HLG content up to 60Hz
- Essential connectivity for streamlined audio and video distribution

- Balanced audio de-embed for connecting external audio systems
- Dante AV-A available on both Encoder and Decoder. (license required)

NHD-500-IW-TX



In the Box

- 1x NHD-500-IW-TX Encoder
- 1x Decora Face Plate
- 1x Mounting Plate
- 2x Sets of Mounting Screws
- 1x 2-pin Phoenix Connector

Key Features

- Supports encoding full 4K60 4:4:4 8bit or RGB content
- 2-Gang US style in-wall form factor
- HDMI and USB-C Switchable inputs

- USB extension and routing for peripheral USB devices
- Dedicated stereo input for connecting external audio devices
- Dante AV-A available (license required)

Multiview Processor

NHD-0401-MV



In the Box

- 1x NHD-0401-MV Multiview Processor
- 1x 12V Power Supply (US/EU/AU/UK)
- 1x IR Remote
- 1x IR Receiver Cable
- 1x 3-pin Terminal Block
- 4x Wall Mounting Brackets
- 2x Mounting Brackets
- 1x QuickStart Guide

Key Features

- 4-Inputs supporting 4K60 source content
- Multiview processing up to 4 inputs simultaneously

- Works seamlessly with NetworkHD 400 & 500 series
- Can be used as a standalone multiview processor

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-500-TX v2	NHD-500-RX v2	NHD-510-TX	NHD-500-DNT-TX	NHD-500-IW-TX
Inputs/Outputs	1x HDMI In 1x HDMI Loop Out 1x 3.5mm TRS Analog In 1x 5-pin Balanced Analog Out 1x Toslink Digital Out	1x HDMI Out 1x 5-pin Balanced Analog Out 1x Toslink Digital In	1x HDMI In 1x USB-C In 1x HDMI Loop Out 1x 5-pin Balanced Analog Out	1x HDMI In 1x 3.5mm TRS Analog In 1x 5-pin Balanced Analog Out 1x Toslink Digital Out	1x HDMI In 1x USB-C In 1x 3.5mm TRS Analog In
Maximum Pixel Clock	600Mhz				
Max Video Resolutions	4096x2160p @ 60Hz 8bit 4:4:4 or RGB 3840x2160p @ 60Hz 12bit 4:2:2 Dolby Vision 3840x 2160p @ 60Hz 10bit 4:2:2 HDR10/HLG 1920x1080p @60Hz 12bit				
Audio Formats	Passthrough: 2ch PCM and up to DTS:X and Dolby Atmos ARC: 2ch PCM and up to Dolby Digital+ and DTS 5.1 Dante/AES67: 2CH PCM (Dante AV-A or DNT-TX)				
Supported Standards	RGB DCI USB 1.1, 2.0 BT.2020				
Output Video Encoding	JPEG 2000				
Encoding Data Rate	Max: 850Mbps (Configurable)				
End to End Latency	4ms video latency @4K60 (pass-through mode) 1-2 video frames latency (scaler/VW mode)				
Communication and Control					
HDMI	HDMI 2.0b HDCP 2.2 CEC EDID ARC				
Network	1x 1GbE RJ45 1x 1GbE RJ45 for Dante 1x 1Gbps SFP Supported SFP Modules: (1000Base-SX: 550m using OM3 multi-mode) (1000Base-LX: 5km using single-mode) (1000Base-LX10: 10km using single-mode)				1x 1GbE RJ45
RS-232	1x 3-Pin Phoenix Connector 2-way API Programmable				1x 3.5mm 2-way API Programmable
IR	1x IR TX 3.5mm TS Mono Jack API Programmable 1x IR RX 3.5mm TRS Stereo Jack API Programmable				N/A
USB	1x USB 2.0 Type Host (Max 200Mbps upstream)	2x USB 1.1 Type A 2x USB 2.0 Type A	1x USB 2.0 Type Host (Max 200Mbps upstream)	1x USB 2.0 Type Host (Max 200Mbps upstream)	1x USB-C Host (Up to 200Mbps upstream)
Security Protocols	AES 256 SSH HTTPS				
Power					
Power Supply	12V DC 1A 802.3at PoE+ Compliant	12V DC 1A 12V DC 3A(USB peripherals connected) 802.3at PoE+ Compliant	20V DC 6A 802.3at PoE+ Compliant	12V DC 1A 802.3af PoE Compliant	20V DC 6A 802.3af PoE Compliant
Power Consumption	Max: 15.4w Average: 8w				
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	51.18 BTU/hr				
Dimensions & Weight	Length x Width x Height: 215mm x 120mm x 25mm Weight: 1.75lbs				2-gang US J-Box Height x Width x Depth: 121mm x 121mm x 51.4mm Weight: 1lbs
Regulatory					
Safety and Emission	CE FCC RoHS EAC RCM UKCA				