

# DELTA-neo N2H PoE-enabled NDI® to HDMI™ standalone converter



## DELTA-neo

DELTA-neo is DELTACAST product range dedicated to format conversion in heterogeneous production environments.

Leveraging the broad expertise in audio and video interfacing formats developed with its sister company DELTACAST.TV, DELTA-neo aims to respond pragmatically and effectively to the new inter-connectivity challenges between baseband and IP network protocols.

## DELTA-neo N2H

DELTA-neo N2H fills an important gap for all video content viewing applications across the NDI®4 ecosystem. It allows you to decode and visualize any NDI® stream (NDI standard; or NDI|HX High efficiency) on a wide range of HDMI™ displays devices, TV screens and video projectors.

DELTA-neo N2H automatically detects the NDI® stream type, format, decode and converts it to HDMI™ with embedded audio. As opposed to the computer-based system, its hardware-based signal processing delivers stability, low latency in a compact form factor.



## Hardware

- 1 x 1Gbps Ethernet, RJ45 (1000BASE-T) interface, PoE-enabled
- 1 x HDMI™ 2.0 output connector (Type A)
- Passive cooling, no fan
- Dimensions : 118x85x30 mm
- Weight : 335 g
- Power:
  - Power over Ethernet (PoE) IEEE 802.3af or
  - 100-240V, 50/60 Hz Universal AC/DC adapter
- Accessories :
  - VESA mount (100mmx100mm) fixing

## Video formats

- SD : NTSC 480i 59.97, PAL 576i 50
- HD : 720p 50/59.94/60
- HD : 1080i 50/59.94/60
- HD : 1080p 25/29.97/50/59.94/60
- UHD : not supported
- WGA : 1280x800p 59.94/60, 1440x900p 59.94/60, 1680x1050p 59.94/60, 1920x1200p 59.94/60
- SD DMT : 640x480p 60, 800x600p 60, 1024x768p 60

## Audio formats

- Input: Up to 8x embedded pairs per NDI® stream
- Output: 2-channel PCM, 24-bit, 44.1 and 48 kHz sample rate, synchronous, selected from 8x embedded pairs
- Audio sync offset configurable (lip sync tuning)



Product is designed in compliance with EU and US regulation for professional audio and video equipment's.

## Product overview

The N2H allows seamless integration and deployment into your NDI® infrastructure; each converters can be addressed statically or via DHCP for rapid deployment in a managed network.

The detection of the NDI streams available on the network is automatic and the choice is made quickly; either locally via a button on the box, or remotely via the HTML5 web user interface.

DELTA-neo N2H support all NDI types, from the standard high-quality NDI® to the lower bit rate NDI®|HX versions V1 and V2 (introduced in NDI4). Unicast TCP/UDP or multicast UDP is supported, with detection of up to 512 sources, through subnets, VLANs with auto-discovery (mDNS) or using the discovery server. NDI streams from iOS (iPhone and iPad) NDI|HX Capture and NDI|HX Camera app are also supported.

The web user interface available on each DELTA-neo N2H offers centralized management capabilities for all HDMI display terminals.

Audio management also allows you to choose a stereo pair from the 8 pairs in each NDI stream, giving you the ability to use DELTA-neo N2H in multilingual environments.

Automatic power-on without switch ensures continuous operation without human intervention after a shutdown event.

## NDI® interfaces support

- NDI®4 support
- NDI® standard version (high-quality version) YUV 4:2:2 (SHQ2) or YUVK 4:2:2:4 (SHQ7) or YUV 4:2:0 (SHQ0)
- NDI®|HX V1 version (H264 - lower bitrate)
- NDI®|HX V2 version (H264 - lower bitrate)
- NDI® video stream receiving (from unicast or multicast source, TCP/UDP) and live decoding
- NDI® zero configuration discovery (mDNS, multicast) and registration protocol
- Automatic source detection, up to 512 sources.
- Separate subnets (e.g. VLANs, remote segments) source discovery support
- NDI Discovery Server Support
- Configurable max network jitter tolerance

## HDMI™ interface

- HDMI™ 2.0 video output (video on/off toggle)
- Embedded audio support (audio on/off toggle, audio pair selection, configurable audio sync offset)
- EDID read or force output format
- Unprotected output, no HDCP support

## Features

- Display of alpha channel
- Single button source switching
- Default stream source at boot
- 16:10 resolution management
- Splash screens customization
- Automatic power-on
- Non-volatile configuration
- Web user interface (HTML5) for remote control, status and firmware Updates

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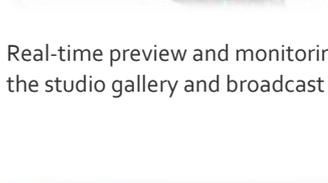
## Use cases overview

The DELTA-neo N2H has been designed to make your life easier and facilitate the integration of NDI® IP technology in numerous point-of-display of many markets;



### Confidence and quality control monitoring

High resolution video stream monitoring on HDMI™ main, secondary or auxiliary computer monitors.



### TV Production distribution monitoring

Real-time preview and monitoring of program, cameras, graphics or contribution feeds anywhere in the studio gallery and broadcast facility.



### Stage and event

Easily add additional NDI® output monitoring capabilities on the top of any media server increasing pre-visualization environment and reducing stress in live situation. Enables wider display end-points on stage with very low latency. Easily add NDI sources to an existing HDMI production switcher.

### Digital signage

Distribution of multimedia content on different screens in public space such as stations, airports, theme parks and shopping malls... (Kiosks, menu boards, billboards, sign boards)



### Stadium and arenas

Elevating the in-stadia fan experience thru all points of video display covering topics as wayfinding, advertising, game replay, menu boards, outdoor schedules for upcoming games, host concerts / entertainment content and executive suites... (Giant, jumbotron and ribbon screens)

### Corporate multimedia content distribution

Facilitates the introduction of high quality professional Video over IP in corporate communication infrastructure. Enable the use of NDI sources within existing HDMI-based corporate installations.



### Mobile camera

Connect your TV, projector or any video switcher wirelessly to your phone or tablet using our Delta-neo N2H. The iOS NDI|HX Capture and NDI|HX Camera apps allow you to turn your mobile device into a production NDI camera or to stream the content of the device screen with NDI to the Delta-neo N2H.