DELTA-neo N2H

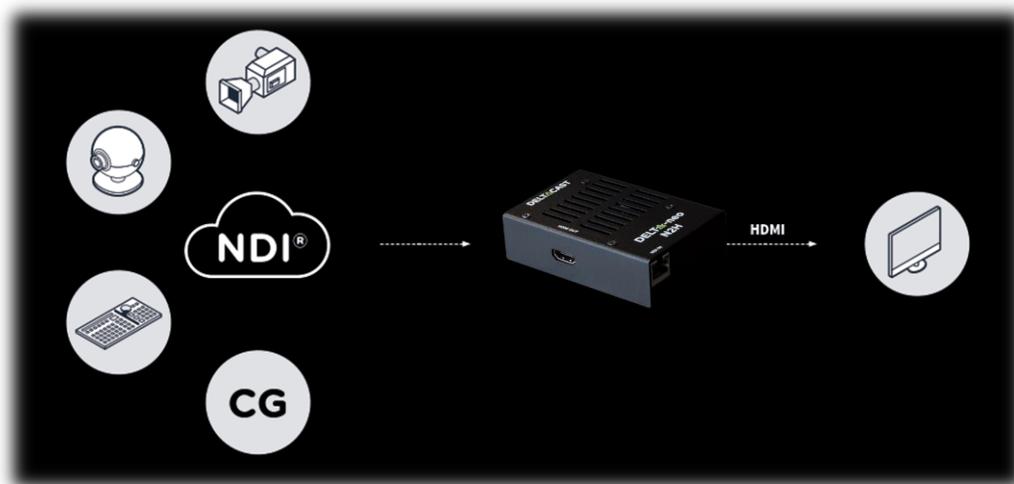## NDI® to HDMI™ standalone converter

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.

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Hardware

- 1 x 1Gbps Ethernet, RJ45 (1000BASE-T) interface
- 1 x HDMI™ 2.0 output connector (Type A)
- Passive cooling, no fan
- 100-240V, 50/60 Hz Universal DC Input
- Dimensions : 90x80x30 mm
- Weight : 227g
- Accessories :
  - VESA mount (100mmx100mm) fixing
  - PoE external power adapter
  - USB (Type A) to DC power cable adapter

Video formats

- SD : NTSC 480i59.97, PAL 576i50
- 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)

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)
- Unprotected output, no HDCP support
- EDID read or force output format

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

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.

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DELTA-neo N2H

NDI® to HDMI™ standalone converter

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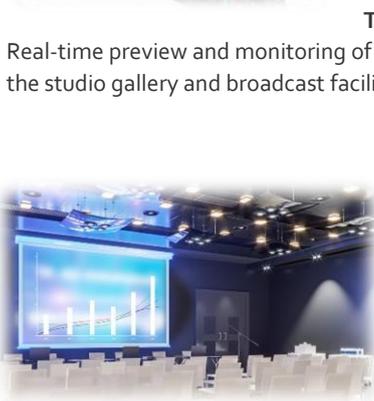
Use cases overview

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.

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