

N40 4K HDMI FULL NDI® Codec

4K HDMI and NDI® bi-directional converter



Descriptions

NDI® (Network Device Interface) is an IP-based video transmission technology developed by NewTek (Vizrt). With the help of NDI-based ecological system, N40 4K HDMI NDI® encoder/decoder will benefit greatly from the versatility of an NDI-based IP workflow. One unit, dual use.

It is a compact and small unit, either to a pocket or mounted on the camera equipped with standard 1/4" screw. N40 not only converts 4Kp60 HDMI video to NDI® (Encoding) but also converts NDI to 4Kp60 HDMI (Decoding). It featured with big size Tally light, powered via PoE, DC or D-Tap (camera). What's more, it has a 3.5 mm audio headset interface, and support audio intercom (customization).

Applications

- IP-based post production
- Video output to screen
- Low latency transmission
- Video conferences

Advantages

NDI encoding + decoding, one unit, dual use

- Plug-and-play operation, HDMI to NDI®, or NDI® to the screen;
- Equipped with HDMI input and output dual interfaces, which can be looped out on the monitor during streaming, or output HDMI signal during decoding;
- Preset 10 outputs, including 9 decoding addresses and 1 blank preset box (customizable background color), and USB extended keyboard for switching.

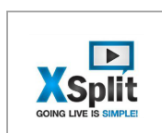
High quality and low latency transmission

- Support up to 4Kp60 HDMI input (4:4:4/4:2:2), backward compatible with SD/HD/VESA resolution and other special resolutions;
- Ultra-low latency, end-to-end latency is less than 100ms;
- FULL NDI high-quality encoding ensures excellent image quality, and lossless audio encoding ensures high-fidelity sound quality;
- Accurate clock and intelligent algorithm ensured video frame, image and audio synchronization.

More advanced functions at your palm

- Built-in large-size Tally light to indicate PGM (program output) or PVW (pre-monitor output) status;
- Support for PoE (Power over Ethernet) and 5-18V DC input powered by USB, mobile power or camera battery;
- Equipped with 3.5mm headset interface, support voice intercom (customization).
- PTZ control with protocols of Visca/Visca over IP/Pelco (special PTZ control protocols can be customized);
- Integrated with IMS software to realize functions such as remote management and control, NDI stream management and distribution, centralized call management, and large-scale program production management;
- SDK/API provided for secondary development.

Compatible software



NewTek NDI-enabled
encoding or stream software

Parameters

Model	N40
Video input	1*HDMI
Video output	1*HDMI (Loop or decoding output)
Audio port	1*3.5mm
Network	1*RJ45 1000Mbps Ethernet port (with PoE)
Video resolution	Up to UHD 4K60 (backward compatible with SD/HD/VESA)
NDI® codec capacity	1x NDI® encoding or 1x NDI® decoding
NDI®CODEC feature	FULL NDI HD encoding, typical bitrate: 250Mbps@4K60 ,125Mbps@1080p60
LED indicator	Tally light, power light and status connection light
Power	PoE, DC, D-Tap (camera) optional. 5-18V wide range supported
Voice intercom	Customization
PTZ control	Network PTZ and Serial Port
DHCP	Support
Management	WEB page
Dimension	100x80x24 mm
Power consumption	6w
Operating temperature	-20~45°C (Storage temperature: -20~70°C)