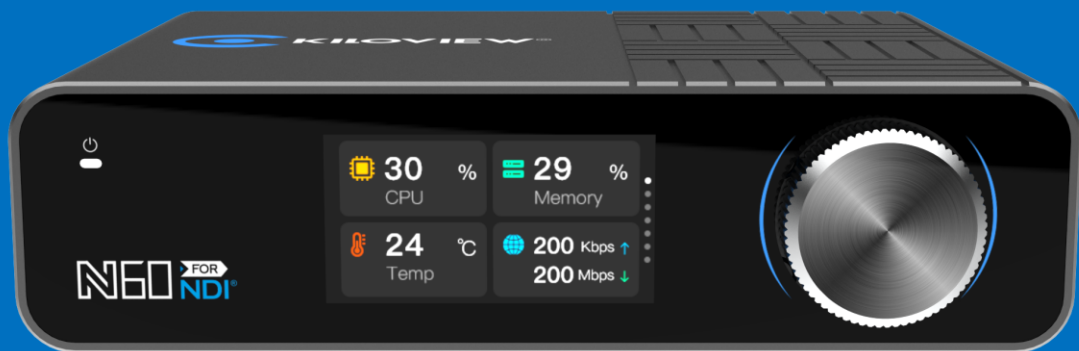


N60 4K HDMI to NDI Converter

NDI & NDI|HX, Encoding and Decoding, All in one



Descriptions

N60 4K NDI Bi-directional Converter is Kiloview's latest NDI converter, which can handle both NDI and NDI|HX, encoding and decoding. It supports resolution up to 4K UHD HDMI, YCbCr 4:2:2 10bit and AVC (H.264/HEVC(H.265), delivering high-quality images with ultra-low latency less than 80ms. N60 has a built-in LCD panel and a scroll-button for better interaction. With the panel you can quickly monitor and configure your device, such as IP configuration, recording status, etc. Besides, it can also work as a big Tally.

What's more important, N60 supports USB 3.0 input from USB Web Camera or PC, which easily bring NDI technology to your video conferencing and image processing.

With other updated features such as PoE and dual ethernet ports, USB 3.0 with USB Camera in/out support, TF storage, PTZ control, 3.5mm analog audio and voice intercom, N60 is your ideal choice to get access to the fabulous NDI/NDI|HX world with the most versatile options and convenient operations.

Features

- Built-in LCD panel + scroll-wheel
- USB 3.0 for Web Cam input
- Cold-shoe and V-mount
- Ultra Low latency transmission
- Local storage with TF card
- PTZ control via USB

Advantages

NDI and NDI|HX, Encoding + Decoding, All-in-One

- Plug-and-play operation, simple Web UI management
- 4Kp60 HDMI input and encode to both NDI and NDI|HX
- NDI or NDI|HX decoding to 4K HDMI output
- Support YCbCr 4:2:2 10bit for encoding and decoding, enjoy professional image quality
- Support video input from Web Cam via USB 3.0 expansion, or connection to PC via USB as input
- Point to point latency less than 80ms

Note: **N60 can be used as either an encoder or a decoder but not simultaneously currently. Please note our update when simultaneous working is available.**

Built-in LCD panel + Scroll-wheel

- A built-in LCD panel plus a scroll-wheel for management and easy configuration
- Working as a big tally

Audio and intercom

- Support 3.5mm analog audio line in/out
- Support voice intercom between all Kiloview devices and the control PC/phone, or with Kiloview Intercom Server

PTZ control

- Support PTZ control by external USB
- USB keyboard for switching optional or control a PTZ camera
- And PTZ control over IP with different protocols, no extra cable required

Other features

- TF card storage available, enabling cache for Kiloview Smart Recording for reliable recording
- Support cold-shoe mounting and V-mounting (paid accessories)
- 2*1000M Ethernet port, one for PoE (IEEE 802.3AT)
- Seamless integration with Kiloview Multiview Server, Recorder System, KiloLink Server and NDI CORE

Compatible software



NDI-enabled devices and software

Parameters

Model	N60
Connectors and Basic Function	
Video input	1*4Kp60 HDMI 2.0
Video output	1*4Kp60 HDMI 2.0 (Loop or decoding output)
Audio port	1*3.5mm Line in 1*3.5mm Line out
Network	2*RJ45 1000Mbps Ethernet port Ethernet 1 with PoE (IEEE 802.3AT, 24W Max)
Video resolution	Input: up to 3840x2160@60fps (4Kp60), lowest 720p50 Output (decoding or loop out): up to 3840x2160@60fps (4Kp60), lowest 720p50
NDI® codec capacity	1x NDI® FB/HX encoding or 1x NDI® FB/HX decoding
NDI®CODEC feature	SpeedHQ (NDI CODEC): SHQ0, SHQ2 ISO MPEG-4 Part 10: Advanced Video Coding (AVC)/ITU H.264 ISO MPEG-H Part 2: High Efficiency Video Coding (HEVC)/ITU H.265 AVC (H.264): Baseline, Main, High, High10, High 4:2:2 up to 5.2 level HEVC (H.265): Main, Main Intra, Main10, Main10 Intra, Main 4:2:2 10, Main 4:2:2 10 Intra up to 5.1 High Tier
Audio encoding and decoding	NDI Audio; AAC-LC, Opus, G.711 a-Law/u-Law; others software expansion
USB	1*USB3.0 (type A) 1*USB3.0 (type C)
Human-computer interaction	1.96" LCD screen, Kiloview Magic Rotor

TF storage	Support TF card for recording, capacity up to 2TB
Tally	Built-in OLED panel available as front/rear Tally
Power	DC 12V (5.5/2.5) or PoE
Performance	
NDI	Support both NDI and NDI HX 2.0 (Note: It will support NDI HX 3.0 in the near future)
Typical Bitrates	<p>SpeedHQ (NDI CODEC): 4Kp60: 250Mbps, 1080p60: 132Mbps, 1080p30/1080i60: 112Mbps, 720p60: 105Mbps 480i60: 62.5Mbps</p> <p>AVC (H.264): Adjustable from 1Mbps to 120Mbps. >24Mbps (4Kp60); >10Mbps(1080p60).</p> <p>HEVC (H.265): Adjustable from 1Mbps to 120Mbps. >15Mbps (4Kp60); >6Mbps(1080p60).</p>
Recording	TF card available for local storage to .mov files. Support remote recording with Kiloview Recorder System, ensuring reliable recording together with Kiloview Smart Recording technology (TF card required).
Voice intercom	Support voice intercom by USB headset between devices directly, or with Kiloview Intercom server.
PTZ	Support PTZ control through USB to serial RS232/485/422; or PTZ control over IP with different protocols, no extra cable required
Input with Web Cam via USB	Support video input from Web Cam via USB 3.0 (Note: license required)
Connection with PC via USB	Support connection with PC via USB Type-C, as a video capture device (Note: license required)
Management	Web UI and remote management with Kiloview KiloLink Server
Firmware update	Firmware upload by Web UI and remote upgrade with Kiloview KiloLink Server
Mounting	Support cold-shoe mounting and V-mounting
Power Consumption	16W Max
Certificates	CE/ FCC/ROHS
Dimension	135*98*35mm