

N1 Portable Wireless SDI to NDI Video Encoder



New Tek NDI[®] is an open network device interface protocol with ultra-low latency, accurate frame video, data stream mutual recognition and communication, makes video real-time production possible.

N1 SDI to NDI video encoder is a professional video encoding device for NDI video production. It can encode SDI video source into NDI protocol stream, and transmit video over wired network or wireless WIFI network which is available for any NDI compatible systems, devices or software.

Application

NDI has become a more convenient and reliable video transmission technology which is widely applied in the video production process. Kiloview N1 video encoder can directly convert the SDI into NDI, and realize ultra-low-latency transmission through WIFI (or wired Ethernet) to various other NDI devices or software in the network for interconnecting, to reduce wiring costs and deployment time, and satisfying the needs of studio and on-site multi-camera video production.



Note: OEM for broadcast equipment and camera manufacturers, etc. available.

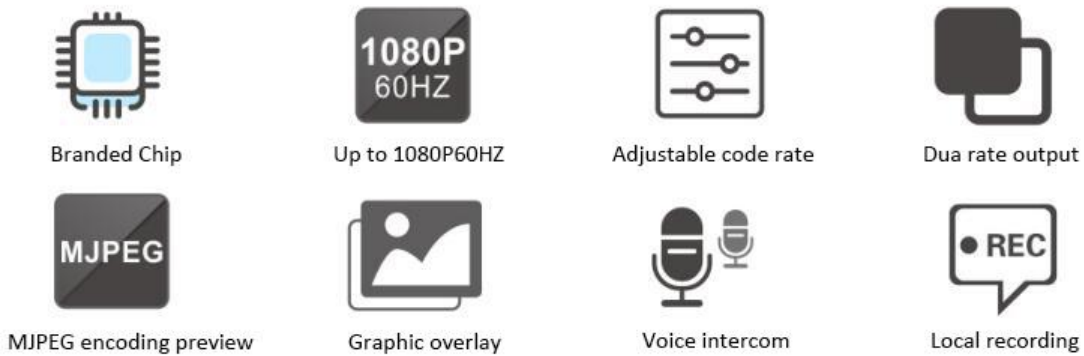
Advantages

- **Authorized by NewTek, support NDI protocol and interoperate with NDI® compatible systems and software on your network.**
 - Enables simple and efficient transmission of video in IP space, compatible with all NDI-enabled systems and devices, and greatly replaces industry-specific connections and transmissions (such as HDMI, SDI, etc.);
 - Audio and video sources are transmitted through NDI, can realize ultra-low delay (end-to-end delay of cable is about 150 ms), accurate frame video, multi-channel data stream mutual recognition and communication;
 - Smart connection, discovered and connected by other NDI devices automatically.
- **Portable design, it comes with battery and hot shoe mounted, support WIFI transmission, which can be used for mobile shooting scenes.**
 - 115*75*35mm, 380g only, hot shoe mounted makes it easy to install the camera;
 - Built-in 5G enhanced WIFI module can achieve more stable wireless transmission, and support USB expansion of wired network transmission;
 - Built-in large-capacity lithium battery, supports 5-16v external mobile power supply, no need to consider wired power supply;

-Active heat dissipation design (built-in fan) allows it workable under high temperature working conditions with stable and reliable operation;

-Easy to operate, it supports wireless remote management using mobile phone/PAD terminal APP.

● Support dual rate output, MJPEG encoding preview, customized graphic overlay, local recording and more.



-Using branded chips and H.264 video encoding technology, it combined with video dynamic noise reduction, image enhancement and other technical processing, can achieve low bit rate encoding and ensure high definition image quality;

-Support up to 1080p60Hz video format, the output resolution can be customized;

-Wide adjustable code rate (64kbit/s to 40Mbit/s);

-Support dual stream output, the main code rate supports video encoding up to 1080p60Hz, and the sub-stream supports 720p 60Hz video encoding;

-Support one-way MJPEG code preview;

-Capable with customized text and image overlay function, which can be at any position on the screen;

-Support voice intercom function (need to deploy voice intercom software);

-With SD/TF card slot, it supports local recording, and supports NAS network storage.

Dimension



Parameter

Model	N1
Input	1 x 3G/HD/SD-SDI
Transmission mode	Enhanced WIFI (Enhance 5G frequency+PA) 、 USB expansion cable
Media protocol	NDI-HX
Video resolution	Up to 1080P60Hz: 1080p23.98/24/25/29.97/30 1080p50/59.94/60 1080i50/59.94/60 720p23.98/24/25/29.97/30 720p50/59.94/60
Video encoding	H264/AVC, Motion-JPEG
Audio encoding	AAC/G.711
Delay	End-to-end of cable is about 150 ms
Graphic overlay	Support custom text, image overlay function, can be superimposed to any position on the screen
Voice intercom	Supported (required a voice intercom software)
Recording	SD/TF card slot, local recording, NAS network storage
Management	Web, APP
Hot shoe	Removable
Battery capacity	3.7V 6800mAh (29.6Wh)
Power supply	DC 12V 1A
Power consumption	6.5w
Operating temperature	-20℃~45℃
Size	115*75*35mm(4.53*2.95*1.38in)
Weight	380g(13.4oz)