

# N1 Portable Wireless SDI to NDI Video Encoder



## Description

NewTek 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 encodes SDI video source into NDI protocol stream, and transmit video over wired network or WIFI network which is available for any NDI compatible systems, devices or software.



2.4G/5GHz



WIFI



Ethernet by  
USB expansion



Built-in battery



Equipped with  
hot-shoe



No messy &  
expensive cables



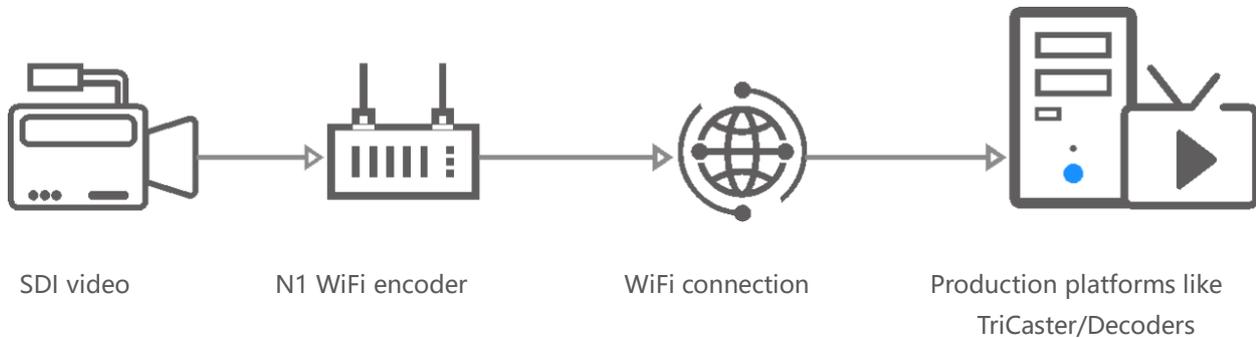
SDK/API  
provided



Up to  
1080P60Hz

# Application

NDI has become a more convenient and reliable video transmission technology which is widely applied in the video production process. N1 video encoder directly converts 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.



# Advantages

## Authorized by NewTek, compatible with other NDI-enabled hardware and software systems

- 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, built-in 5G WIFI and large-capacity lithium battery to ensure stable NDI wireless transmission

- Built-in 5 GHz enhanced WIFI module achieves more stable wireless transmission, and support Ethernet connection by USB expansion;
- 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, 380g only, threaded screw camera mount.

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## Powerful encoding function, support for dual-stream output, SRT/RTMP protocol, customized graphic overlay, local recording and more

- Support for dual stream output, the main stream up to 1080p60Hz video encoding, and the sub-stream supports 720p 60Hz video encoding; what' s more, Main and Sub stream enables 8 streams output simultaneously;
- Besides NDI-HX, it supports SRT/RTMP/HLS/TS over UDP protocols;
- Support up to 1080p60Hz video format, output resolution is customized;
- Wide adjustable bitrate (64kbit/s to 40Mbit/s);
- Capable of user-defined text and image overlay and located at any position on the screen;
- With SD/TF card slot, it supports local recording, and supports NAS network storage;
- Customized Tally light by USB expansion;
- SDK/API provided for secondary development.

## Dimension



# Parameter

Model No.	N1
Input	1*SDI
Transmission mode	Enhanced WIFI, Ethernet by USB expansion
Media protocol	NDI-HX/RTMP/SRT/HLS/TS over UDP
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
Latency	Using NDI protocol for end-to-end latency by Ethernet is about 150ms
Graphic overlay	Support custom text, image overlay function, and superimposed to any position on the screen
Recording	SD/TF card slot, local recording, NAS network storage
Management	Android APP/Web/IMS remote management
Hot shoe	Removable
Battery capacity	3.7V 6800mAh (29.6Wh)
Power supply	DC 12V 1A
Power consumption	6.5w
Operating temperature	-20~45°C
Dimension	115*75*35mm (4.52*2.95*1.38" )
Weight	380g (13.4oz)