

# E1/E2 NDI

## Wired Video Encoder

Cost-effective encoding device



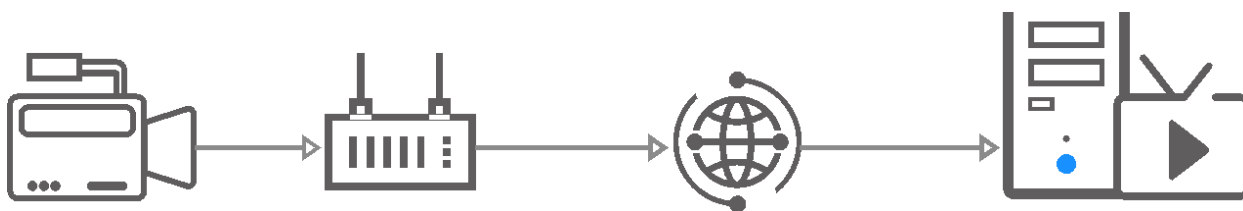
### Descriptions

E1/E2 NDI video encoder transmits SDI or HDMI video source into NDI|HX stream over WAN or LAN. It supports SRT/RTMP/RTMPS/HLS/UDP/RTSP etc.

- |                   |                           |                                |
|-------------------|---------------------------|--------------------------------|
| •NDI HX +SRT      | •Portrait Live            | •Recording storage             |
| •PTZ control      | •Cost-effective           | •Image and text overlay        |
| •Provided SDK/API | •7*24h continuous working | •Multi-platform live streaming |

## Applications

NDI post production, NDI low-latency transmission, conference/program/event webcast, video interactive connection point-to-point, portrait live broadcast, etc.



SDI/HDMI Video Source

NDI|HX video encoder

Ethernet wired transmission

TriCaster platforms etc.

## Advantages

### Powerful streaming media service function, support NDI|HX +SRT+RTMP

- H.264 encoding, support NDI | HX encoding transmission, compatible with systems and devices of NDI;
- Support SRT Internet transmission point-to-point and three transmission modes of Caller/Listener/Rendezvous;
- Simultaneously support RTSP/ RTMP/ RTMPS/HLS/TS-UDP etc. streaming media protocols;
- Customizable support for special protocol such as NDI/SIP etc.;
- Dual stream output, the main code rate up to 1080P60, and the sub-stream up to 720P60 video encoding;
- Both the main stream and the sub stream support 8 stream services simultaneously.

### High quality chip solution and modular software system to ensure high image quality and high stability

- High quality chip, FPGA processing after video capture, H.264 algorithm optimization, different streaming protocols, etc., to ensure clear, smooth and high color reproduction;
- 8-layer PCB board design, dual CPU, modular software, low power consumption and low heat dissipation, voltage overload protection, automatic reconnection when power and network off, etc., ensure that the device is stable and can work 7\*24h continuously;
- Adjustable bit rate from 64kbps ~ 40Mbps;
- Input resolution supports up to 1080P60, the encoding output resolution is adjustable.

### Support video rotation/cropping (vertical live broadcast), image and text overlay, video recording, monitor etc.

- Support video rotation / pre-cropping (such as horizontal screen to vertical screen), horizontal mirroring, color adjustment, etc. before encoding;
- Support custom text and image overlay, which can be superimposed to any position on the screen;
- Micro SD/TF card for local recording, and support NAS network storage;
- Support SDI/HDMI embedded audio encoding, and 3.5mm analog audio input encoding;
- Monitoring and USB expansion PTZ, Tally etc;
- SDK/API provided for secondary development and to integrate with third-party platforms.

## Parameters

Model	E1 NDI(SDI)/E2 NDI(HDMI)
Video input	E1 NDI:1*BNC SDI; E2 NDI:1*HDMI
Analog audio	2*3.5mm
USB port	2*USB 2.0 Type-A
Micro SD	1*Micro SD/TF Card storage interface
Network	100M Ethernet
Video loop	E1 NDI:1*BNC SDI; E2 NDI:1*HDMI
Input video resolution	Up to 1080P60H, details as below: SDI: 1080P23.98/24/25/29.97/30Hz; 1080P50/59.94/60Hz; 1080i50/59.94/60Hz; 720P23.98/24/25/29.97/30Hz; 720P50/59.94/60Hz HDMI: 1080P23.98/24/25/29.97/30Hz; 1080P50/59.94/60Hz; 1080i50/59.94/60Hz; 720P30/50/59.94/60Hz; below 1920*1200.
Video encoding	H.264/AVC, Motion-JPEG
Audio encoding	AAC/G.711
Encoding latency	<67ms
Media transmission protocols	NDI   HX/SRT/RTMP/ RTMPS/HLS/TS over UDP/RTSP, customize for SIP
Image and text overlay	Support
Record storage	Micro SD/TF card local recording, and NAS network storage
Management	APP/Web/IMS
Power supply/Consumption	DC 12V 1A/4W
Dimension	125*89*28mm (4.92*3.50*1.10" )
Weight	380g (13.4oz)
Operating temperature	-20~60°C