

# SDI NDI Video Streaming Encoder/Decoder

Ultra compact, Standalone hardware codec, multiple streaming and NDI®HX

**Z**owieBox is a hardware encoder/decoder in a small aluminum box, a new generation, 4K Ultra HD video, ultra compact video streaming encoder and decoder, plus featuring NDI®|HX3, PoE and big distinct tally light. It is rugged, small form-factor, light weight and professional for critical streaming applications. It is a cost effective, easy to use, user friendly with standard tripod mount. ZowieBox supports popular USB Type-C charger, WIFI, hotspot, DC output and a range of innovative modern features. It is a standalone steaming encoder, no PC required. It offers ProAV, broadcaster, system integrators, streaming professionals, and OEM partners a flexible and affordable solution to stream high quality video over network.

ZowieBox comes SDI zero-lag loop out for video passthrough. Meanwhile it can stream to multiple CDN simultaneously standalone without PC and affecting PC gaming experiences. It is totally PC free.

High quality, ultra-low-latency NDI®|HX3 is even better than USB capturing. The decoding capability of ZowieBox is a easy way to distribute streaming video or NDI®|HX3 on the network, decode and route to SDI output to a SDI screen or equipment

Streaming on-the-go, make compact ZowieBox easy mount on top of any camcorder or screen sources with 1/4-20 mount underneath by ball head or any standard mounting gear. It can convert any existing SDI video such as camcorder or PTZ cameras, into NDI enabled real-time, low-latency high-quality video over IP workflow.

Recording prepare for future. ZowieBox allows recording either by TF or USB for local recording or NAS while live streaming.

The front blue screen can display current settings and working status in real-time. A browser-based GUI enable setting and control of encoder done by PC, smartphone or pad via WIFI, hotspot or LAN.

The encoder can be powered by any handy USB type C power adapter. It is also designed to be powered by any DC power adapter via type C to DC adapter in any voltage between 5 to 20V PoE, USB-C or DC make the power and connectivity easy and smooth.

The state-of-art, all-in-one ZowieBox is an encoder, decoder, recorder, Tally light and PTZ controller plus it is also NDI SDI encoder/decoder. It can be widely used in IP based video world.



## Highlights :

- ◇ Real-time live video passthrough out with zero latency best for streaming without CPU load of PC
- ◇ Standalone streaming, clean and no PC/Laptop required.
- ◇ Encoder/decoder/NDI® in small box, one device multi-purpose
- ◇ 1080p60 hardware video encoder and decoder
- ◇ 3G SDI loop through
- ◇ High efficiency H. 264 HP/MP/BP or H.265/HEVC MP codec
- ◇ SDI input and SDI loop out/output with embedded audio
- ◇ Auto input detection auto resolution and format switching
- ◇ NDI® | HX3 support with better quality and very smallest delay
- ◇ Powerful NDI encoding or NDI decoding
- ◇ Up to 50mbps bitrate, high bandwidth video stream for best quality
- ◇ Adaptive AAC audio for both embedded audio and analog
- ◇ Analog line in audio input and headphone output
- ◇ Video recording and photo capability in mp4/mov/ts format
- ◇ Live video feed to PC, phone and iPad
- ◇ setup and configuration via login protected web interface
- ◇ https supported for secured web transfer across web
- ◇ Comprehensive control via by PC, smartphone or iPad
- ◇ Native Portrait/Vertical or Landscape to Vertical video streaming
- ◇ NDI® | HX3, RTSP, SRT, RTMP (s) steaming decoder up to 3G SDI
- ◇ WYSIWYG, powerful and flexible OSD, text, logo and stamp image overlay, user-friendly and what you see is what you get.
- ◇ IP VISCA PTZ control relay to existing legacy PTZ cameras
- ◇ Built-in tally light PVW/PGM in multi-camera productions
- ◇ Rich working or vital operating status in front display at a glance
- ◇ With standard camera tripod mount
- ◇ Support YouTube, Twitter, Facebook and Twitch etc.
- ◇ Simultaneous live to multiple CDN in RTMP(s)/SRT
- ◇ Easy access and plug-and-play installation by mDNS or hotspot
- ◇ Handy and convenient USB-C, DC, or single cable PoE power
- ◇ PoE with DC OUT to power other devices such as SLR, PTZ etc.
- ◇ OEM/ODM support

# SDI NDI Video Streaming Encoder/Decoder

H.265 HEVC , better Quality, more Streaming Protocols and live video Preview

Specification

## Power:

Input : USB TYPE C, 25W above  
Up to 20V 1A, 25W up with DC Adapter  
: PoE+(IEEE802.3at), CAT5e above  
Consumption : ~10W Max (Without DC Out)  
Output : 12V 1A DC Max with current limit

## Video:

Video Encoder : H.264 HP/MP/BP, H.265 MP  
Resolution\* : 1080p25/30/50/60  
Encoder/Decoder : 1080i50/60, 720p50/60  
For both video Input & Output  
Loop through\* : up to HD/3G SDI  
Frame Rate : 24/25/30fps, 50/60fps for 1080/720p  
Codec : H.264/H.265  
Rate Control : CBR/VBR  
Live Preview : Web, SDI loop through and output

## Network:

LAN : 100/1000Mbps Gigabit  
WIFI : 802.11a/b/g/n/ac, Dual Band  
Bluetooth : V5.0  
WEB : http, https

## Streaming:

Encoder : RTSP/RTMP(s)/SRT  
Decoder : RTMP(s)/SRT/RTP/UDP/RTSP/TCP/HTTP(s)  
\*SRT caller only  
Bit Rate : Max. 50mbits/s, adjustable  
NDI® Encoder : NDI® | HX3/HX2/HX  
NDI® Decoder : NDI® | HX3/HX2/HX  
NDI Audio Direct : Audio over NDI  
Recorder : MP4, mov, ts  
Rotation : 0/90/180/270°, native vertical streaming  
Main Video Stream : Up to 1080p60  
Secondary Stream : Up to 1080p

## Audio :

Sampling : 32, 44.1, 48KHz  
Encoder : AAC, MP3, 16bit  
Bitrate : 32-192kbps  
Channel : Dual, AGC  
Input : 0.7VRMS, 20Kohm  
Output : 16 ohm, 30mW  
Source : SDI Embedded, Line In

## Input/Output

SDI In : HD/3G SDI, SMPTE 292M, 372M, 424M  
SDI Loop out : up to 3G SDI  
SDI Out : HD/3G SDI, SMPTE 292M, 372M, 424M  
NDI : NDI® | HX3/HX2/HX (NDI 5.5 upgradeable)

## Configuration :

Display : Dot Matrix, COG  
Setting : Mobile Phone, Pad, PC, RESTFUL  
OSD : Text, Logo Caption, Time Stamp, WYSIWYG

## PTZ:

Interface : RS232/485/422 via USB dongle\*  
Protocol : Pelco D/P, VISCA

## Tally:

Tally : Auto/Manual

## Software

Firmware : Upgradeable, Linux OS

## Interface:

SDI Input : HD/3G SDI, SMPTE 292M, 372M, 424M  
SDI Loop Out : Up to 3G SDI  
SDI Output : HD/3G SDI, SMPTE 292M, 372M, 424M  
Audio In : 1 x 3.5mm TRS Jack  
Audio Out : 1 x 3.5mm TRS Jack  
Network : 1 x RJ45, Gigabit, PoE  
USB : 1 x USB, TYPE A  
Visible : 1 x RGB LED Panel, 1 x LCD

## Storage

Internal : 1 x MicroSD/TF, USB  
Network : NAS  
Disk Format : FAT32 up to 2T, exFAT

\*All storage media not included

## Physical

Size : 123 x 68 x 22mm(4.8" x 2.7" x 0.9")  
Weight : 166g (5.9oz), Black aluminum  
Operating : 0°C to 45°C(32°F to 113°F)  
Storage : -20°C to 60°C(-4°F to 140°F)  
Tripod : 1/4" - 20UNC

## Certification

CE, FCC

## Ordering

30661-1YX  
X=1  
X=2, NDI  
Y=0, 3G SDI; =1, 12G SDI

## Accessories

USB TYPE C PD Charger  
USB TYPE C Cable  
Cold Shoe 1/4"  
Quick Start Guide  
\*USB RS232/RS485/RS422 Dongle  
\*Ultra Slim USB HUB  
\*Accessories is optional and sold separately.



\* All specifications are subject to change without notice.  
\* Accessories may be different for different product options.  
\* Actual object may differ from what shown in catalog.