New Gen 4K NDI Video Streaming Encoder/Decoder

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

ZowieBox 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 game PC/ Console required. It offers system integrators, stream-ing professionals, and OEM partners a flexible and af-fordable solution to stream high quality video over net-work.

ZowieBox comes HDMI zero-lag loop out for video passthrough with HDR and Dolby support. Meanwhile it can standalone streaming to multiple CDN simultane-ously without PC and affecting PC gaming experiences. It is totally PC free. It also a good companion of Xbox, PS4/5 and Nintendo for game streaming. HDCP 1.4/2.2 are all supported.

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 HDMI output to a screen or projector.

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

Recording prepare for future. ZowieBox allows record-ing either by TF 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 ena-ble 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 encoder/decoder. It can be widely used in IP based video world.

Highlights:

◇ Real-time live video passthrough out with zero latency and HDR, best for game streaming without CPU load of game computer/console.

◇ Standalone streaming, clean and no PC/Laptop required.

◇ Encoder/decoder/NDI® in small box, one device multi-purpose

◇ Up to 4K30 hardware video encoder and decoder

◇ Up to 4K60 and 1080p120Hz loop through

◇ High efficiency H. 264 HP/MP/BP or H.265/HEVC MP codec

◇ 4K HDMI input and HDMI loop out/output with embedded audio

◇ HDCP 1.4/2.2 support

◇ 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 4K30

◇ WYSIWYG, powerful and flexible OSD, text, logo and stamp image over-lay, 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

4K 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*	: 4K2160p25/30, 1080p25/30/50/60
Encoder/Decoder	1080i50/60, 720p50/60
	For both video Input & Output
Loop through*	: Up to 4K60, 1080p120Hz, HDR10 & Dolby
HDCP	: 1.4/2.2/2.3
Frame Rate	: 24/25/30fps, 50/60fps for 1080/720p
Codec	: H.264/H. 265
Rate Control	: CBR/VBR
Live Preview	: Web, HDMI loop through and output

*Resolution above 4K30 will be automatically down scaled for streaming

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	: 0/90/180/270n°, native vertical streaming
Main Video Stream	: Up to 4K30
Secondary Stream	: Up to 720p

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	: HDMI Embedded, Line In

Input/Output

HDMI In	: 1.4b/2.0b, RGB/YCbCr 444/422/420
HDMI Loop out	: 2.0, up to 4K60
HDMI Out	: 1.4b, up to 4K30
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:

HDMI Input	: 1 x TYPE A, Receptacle, 1.4b
HDMI Loop Out.	: 1 x TYPE A, Receptacle (Mux), 1.4b
HDMI Output	: 1 x TYPE A, Receptacle (Mux), 2.0
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

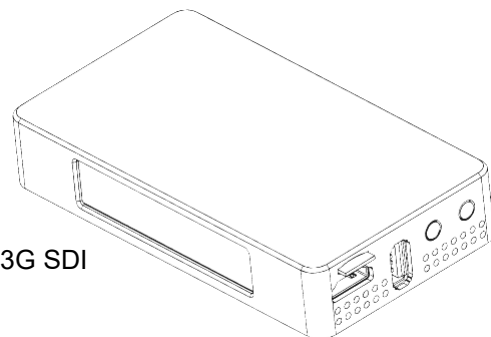**Ordering**

30621-1YX
X=1
X=2, NDI
Y=0, HDMI; =1, 3G 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.