

4K60 NDI Video Streaming Encoder/Decoder

Touch Screen, Ultra compact, multiple streaming and NDI | HX3

ZowieBox Pro is an AI-powered 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 Pro supports popular USB Type-C charger, WIFI-6, 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, streaming professionals, and OEM partners a flexible and affordable solution to stream high quality video over network.

The first innovative AI-powered edge computing video converter enables legacy PTZ cameras to achieve auto-tracking and framing. It is also has 3.42" big distinct touch screen for working status, quick control and settings.

Transform your legacy PTZ cameras into intelligent assets. The AI tracking engine offers precision single/multi-target locking, dynamic framing composition, and adjustable follow speeds—all with real-time recognition overlays for total control.

ZowieBox Pro comes HDMI zero-lag loop out for video passthrough up to 4k60. Meanwhile it can standalone streaming to multiple CDN simultaneously 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.

High quality, ultra-low-latency NDI® | HX3 is even better than USB capturing. The decoding capability of ZowieBox Pro 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 Pro easy mount on top of any SLR or screen sources with 1/4-20 mount underneath by ball head or any standard mounting 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 Pro allows recording either by TF, USB Flash Drive for local recording or NAS while live streaming.

A browser-based ZowieGUI enable setting and control of encoder done by PC, smartphone or tablet 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.

ZowieBox Pro is a state-of-the-art, all-in-one solution com-

AI



Highlights :

- ◇ Innovative 3.42" TFT touch display with menu control
- ◇ Innovative AI edging computing for legacy PTZ camera tracking control
- ◇ Real-time live video passthrough out with zero latency up to 4k60
- ◇ 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 4K60 hardware video encoder and decoder
- ◇ High efficiency H. 264 HP/MP/BP or H.265/HEVC MP codec
- ◇ 4K HDMI input and HDMI 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® | HX3 encoding or NDI® | HX3 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, passive MIC input and headphone output
- ◇ Video recording capability in mp4/mov/ts format
- ◇ Live video feed to PC, smartphone and tablet
- ◇ Setup and configuration via login protected web interface by ZowieUI
- ◇ https supported for secured web transfer across web
- ◇ Comprehensive control via by PC, smartphone or Tablet
- ◇ Native Portrait/Vertical or Landscape to Vertical video streaming
- ◇ NDI® | HX3, RTSP, SRT, RTMP (s) steaming decoder up to 4K60
- ◇ WYSIWYG, powerful and flexible OSD, text, logo and stamp image overlay, user-friendly and what you see is what you get powered by ZowieUI
- ◇ NDI/IP VISCA PTZ control relay to existing legacy PTZ cameras
- ◇ Built-in tally light PVW/PGM in multi-camera productions
- ◇ Rich working, operating status and quick control in front display at a glance
- ◇ With standard camera tripod mount
- ◇ Simultaneous live to YouTube, Twitter, Facebook and Twitch etc. 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.
- ◇ RESTFul API, OpenAPI and PythonAPI powered by ZowieAPI
- ◇ OEM/ODM support

4K60 NDI Video Streaming Encoder/Decoder

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

Specification

Power:	
Input	: USB PD 12V, 25W above 12V DC input by DC to USB C adapter : PoE+ (IEEE802.3at), CAT5e above
Consumption	: ~10W Max (Without DC Out)
Output	: 8.4/12V 1.5A DC Max with current limit
Video:	
Video Encoder	: H.264 HP/MP/BP, H.265 MP/MT, JPEG BP
Resolution	: 4K2160p60/59.97/50/30/29.97/25/24/23.97 1080p23.97/24/25/29.97/30/29.97/50/59.94/60 720p50/59.94/60 For both video Input & Output
Loop through	: Up to 4K60
Frame Rate	: 23.97/24/25/29.97/30fps, 50/59.94/60fps
Codec	: H.264/H.265/MJPEG
Rate Control	: CBR/VBR/AVBR*
Live Preview	: Web, APP, HDMI loop through and output
VIP	: Rotation 0°, 90°, 180°, 270°, Crop
Network:	
LAN	: 100/1000Mbps Gigabit
WIFI	: 802.11a/b/g/n/ac/ax, Dual Band
Bluetooth	: V5.4
WEB	: http, https
Streaming:	
Encoder	: RTSP/RTMP(s)/SRT
Decoder	: RTMP(s)/SRT/RTP/UDP/RTSP/TCP/HTTP(s)
Bit Rate	: Max. 200mbits/s for H.264, 120mbits.s for H.265
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 4K60
Secondary Stream	: Up to 1080p for 4K60 input
Audio :	
Sampling	: 32, 44.1, 48, 96 kHz
Encoder	: AAC, MP3, 16bit
Bitrate	: 32-192kbps
Channel	: Dual, AGC, up to 8 Channel
Input	: 0.7VRMS, 20Kohm
Output	: 16 ohm, 30mW
Source	: HDMI Embedded, Line In and Passive MIC
Input/Output	
HDMI In	: 2.0b, RGB/YCbCr 444/422/420
HDMI Loop out	: 2.0, up to 4K60
HDMI Out	: 2.0, up to 4K60, YCbCr 4:2:2/RGB 4:4:4
NDI	: NDI® HX3/HX2/HX (NDI 6.3)
UVC	: USB UVC IN/OUT
Configuration :	
Display	: 3.42" TFT Touch
Setting	: Smartphone/Tablet, PC, RESTFUL
OSD	: Text, Logo Caption, Time Stamp, Scoreboard
API	: RESTFul ZowieAPI , OpenAI, PythonAPI
UI	: ZowieUI , Touch Screen

PTZ:	
Interface	: RS232/485/422 via USB dongle*
Protocol	: Pelco D/P, VISCA over IP, ONVIF, NDI
AI Tracking	: Single/Multiple face recognition Dynamic framing alignment and speed

Tally:	
Tally Mode	: Auto/Manual/Off

Software	
Firmware	: Upgradeable, Linux OS

Interface:	
HDMI Input	: 1 x TYPE A, Receptacle, 2.0
HDMI Loop Out.	: 1 x TYPE A, Receptacle (Mux), 2.0
HDMI Output	: 1 x TYPE A, Receptacle (Mux), 2.0
Audio/MIC 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	

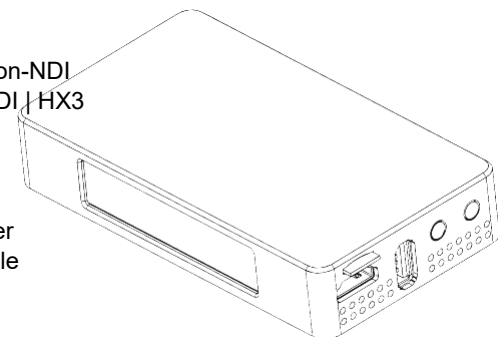
Physical	
Size	: 123 x 68 x 29.6mm(4.8" x 2.7" x 1.16")
Weight	: 196g (6.9oz), Black aluminum
Operating	: 0°C to 45°C(32°F to 113°F)
Storage	: -20°C to 60°C(-4°F to 140°F)
Tripod	: 1/4" - 20UNC

Certification	
CE, FCC	

Ordering	
30721-100	Non-NDI
-110	NDI HX3

Accessories

- USB C PD Charger
- USB TYPE C Cable
- Cold Shoe 1/4"
- Quick Start Guide
- *USB RS232/RS485/RS422 Dongle
- *1U ZowieX Rack Mount
- *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.