ZowREC Deck - 4K UltraHD HDMI & CVBS Video Recorder

Ultra-compact, Standalone Hybrid Hardware Recorder, 3.42" Touch Dashboard, Zero-Latency Passthrough

ZowieREC Deck is an ultra-compact, standalone hardware video recording console housed in a rugged anodized aluminum chassis, purpose-built for both legacy analog CVBS and modern 4K digital HDMI video ingestion. Bridging over thirty years of video formats into a single pocket-sized deck, this next-generation device captures pristine video from a comprehensive array of sources: modern DSLR/mirrorless cameras, 4K gaming consoles, TV set-top boxes, and PC/laptops via HDMI, as well as classic VHS/VCR tapes, Hi8 camcorders, retro consoles (PS2/N64/Wii), and medical endoscopy systems directly via composite CVBS.

Equipped with a custom 3.5mm TRRS-to-3xRCA breakout cable, the Deck natively ingests analog CVBS without requiring bulky external converter boxes. Inside the hardware pipeline, incoming composite signals are stabilized via hardware Time Base Correction (TBC) to eradicate jitter and frame drops, then de-interlaced and intelligently up-scaled to clean 1080p video. Crucially, this processed analog signal can be looped out via the HDMI output alongside native 4K HDMI passthrough, allowing operators to monitor legacy footage on modern high-definition monitors or TVs with zero perceptible latency.

Designed for true PC-free independence, ZowieREC Deck records directly to high-speed MicroSD cards or external USB-C SSDs without reqng laptops, drivers, or software capture suites. For mission-critical archiving and unattended operations, the Deck features an intelligent signal-detection engine: it automatically stops video recording when the input signal is lost, and automatically resumes recording the moment the signal is restored. Furthermore, if a CVBS analog source is disconnected, the system outputs an unmistakable blue screen or "No Signal" display to immediately alert the operator.

The front-facing, responsive 3.42" ultra-wide capacitive touchscreen serves as an industrial tactile dashboard. It provides real-time video framing preview, 20-segment dual-channel stereo VU audio meters, remaining storage capacity translated into recording hours, and one-tap foolproof recording controls. With the dedicated Snap & Mark feature, users can tap during recording to capture still frames while simultaneously embedding active metadata markers into an accompanying standard XML sidecar file for rapid highlight navigation during playback and NLE post-editing.

Designed for seamless versatility from studio racks to field productions, ZowieREC Deck provides complete multi-platform control across every workflow. Manage recordings and navigate media galleries locally via the ultra-responsive 3.42" touchscreen, use the included dedicated IR remote for convenient 10-foot control, or access the full-featured WebUI from any PC browser. Built-in Dual-Band Wi-Fi, Gigabit LAN, and Bluetooth transform your iPhone, iPad, or Android device into a wireless director monitor with low-latency live preview and effortless wireless clip downloads directly to your camera roll—no SD card removal required. For studio installations and system integrators, native RESTful ZowieAPI over HTTP/HTTPS delivers full automated control and real-time status telemetry. Powered via standard USB Type-C through wall adapters or portable power banks, it combines broadcast-grade archiving reliability with tactile, untethered mobility wherever your production takes you.



Highlights:

- Dual-era ingest captures 4K30 HDMI and CVBS via 3.5mm TRRS.
- Built-in analog conversion upscales CVBS signals to 1080p HDMI loop-out.
- Hardware time base correction eliminates sync jitter on old tapes.
- Native 4:3 aspect protection preserves analog proportions with hardware de-interlacing.
- Zero-latency HDMI passthrough supports up to 4K60 lag-free loop-out.
- PC-free standalone capture records directly to MicroSD or USB drives.
- Unbroken exFAT recording captures continuous files without 4GB splits.
- High-power USB host port drives external SSDs up to 4TB.
- Ultra-wide 3.42" touchscreen provides live framing, VU meters, and control.
- Auto signal detection stops recording on drop and resumes on sync.
- Analog drop protection displays a blue screen or "No Signal" alert.
- Programmable timer triggers scheduled recording for unattended capture.
- One-tap Snap & Mark captures stills and embeds XML timeline markers.
- Included handheld IR remote provides effortless distance control anywhere.
- Built-in Gigabit Ethernet, dual-band Wi-Fi, and Bluetooth ensure full connectivity.
- RESTful ZowieAPI enables seamless HTTP/HTTPS integration for third-party automation.
- Cross-platform WebUI allows effortless control from smartphone, tablet, or PC.
- Automated NAS sync uploads recorded files directly via SMB.
- Dual efficient encoders support selectable H.265 and H.264 up to 50 Mbps.
- Flexible containers save recordings directly into MP4, MOV, or TS formats.
- Recessed top status LEDs provide clear recording confirmation at a glance.
- Anodized aluminum chassis acts as a silent passive heatsink.
- Standard 1/4"-20 bottom thread attaches securely to cages and tripods.
- Driver-free UVC mode outputs 1080p webcam feeds to OBS or Teams.
- Dedicated 3.5mm stereo Line-In and headphone jacks enable audio monitoring.
- Convenient USB-C power input runs on PD adapters or power banks.
- Flexible OEM/ODM options support tailored hardware, firmware, and branding.

4K UltraHD HDMI & CVBS Video Recorder

Hybrid Standalone Video Recording Console 4K HDMI & CVBS Dual-Input Ingest

Specification

Power:

Input	: USB TYPE C, 5V/9V/12V Up to 12V 1A, 25W up with DC Adapter
Consumption	: ~5.5W 8WMax

Video:

Video Encoder	: H.264 HP/MP/BP, H.265 MP
Resolution*	: 4K2160p25/30, 1080p25/30/50/60, 576p, 480p
Encoder/Decoder	1080i50/60, 720p50/60 For both video Input & Output
Loop through*	:Up to 4K60, 1080p120Hz
Frame Rate	: 24/25/30fps, 50/60fps for 1080/720p 24/25/30fps for 4K
Codec	: H.264/H. 265
Rate Control	: CBR/VBR
Live Preview	: Web, HDMI loop through and output
CVBS (Analog)	: NTSC (480i, 29.97 fps), PAL (576i, 25 fps) via 3.5mm TRRS Female Jack

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

Network:

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

Recorder:

Container Format	: MP4, MOV, TS
Record Quality	: Good, Best, High
Encoder	: RTSP/RTMP(s)/SRT*
Decoder	: RTMP(s)/SRT/RTP/UDP/RTSP/TCP/HTTP(s)*
Main Video Stream	: Up to 4K30
Secondary Stream	: Up to 720p for 4K30, 1080p for 1080 input

*Configurable via WebUI only

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, 4:2:2(YCbCr)
UVC	: USB UVC IN/OUT

Configuration :

Display	: 3.42" Ultra-wide Color IPS Capacitive Touch
Remote	: Remote Control, Smartphone, Tablet, PC
OSD	: Text, Logo Caption, Time Stamp, Scoreboard
API	: RESTFul ZowieAPI
UI	: ZowieUI

Status:

LED Panel	: Auto/Manual/Recording/Off

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 (Mux)	: 1 x TYPE A, Receptacle (Mux), 2.0
Audio In	: 1 x 3.5mm TRRS Jack（CVBS Mux**）
Audio Out	: 1 x 3.5mm TRS Jack
Network	: 1 x RJ45, Gigabit
USB	: 1 x USB, TYPE A
Visible	: 1 x RGB LED Panel, 1 x LCD

**CVBS & Audio input multiplexed on 3.5mm TRRS

Storage

Local	: 1 x MicroSD/TF, USB
Network	: NAS
Disk Format	: FAT32 up to 2TB, exFAT without limit

*All storage media not included

Physical

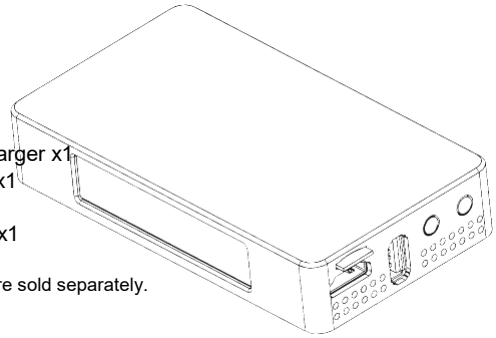
Size	: 123 x 68 x 22mm(4.8” x 2.7” x 0.9”)
Weight	: 174g (6.14oz), Black Anodized aluminum
Operating	: 0°C to 45°C(32°F to 113°F)
Storage	: -20°C to 60°C(-4°F to 140°F)
Tripod	: 1/4” - 20UNC

Certification

CE, FCC

Ordering

30761-401



Accessories

USB TYPE C PD Charger x1
USB TYPE C Cable x1
Remote Control x1
3.5mm TRRS Cable x1
Quick Start Guide
*Optional accessories are 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.