

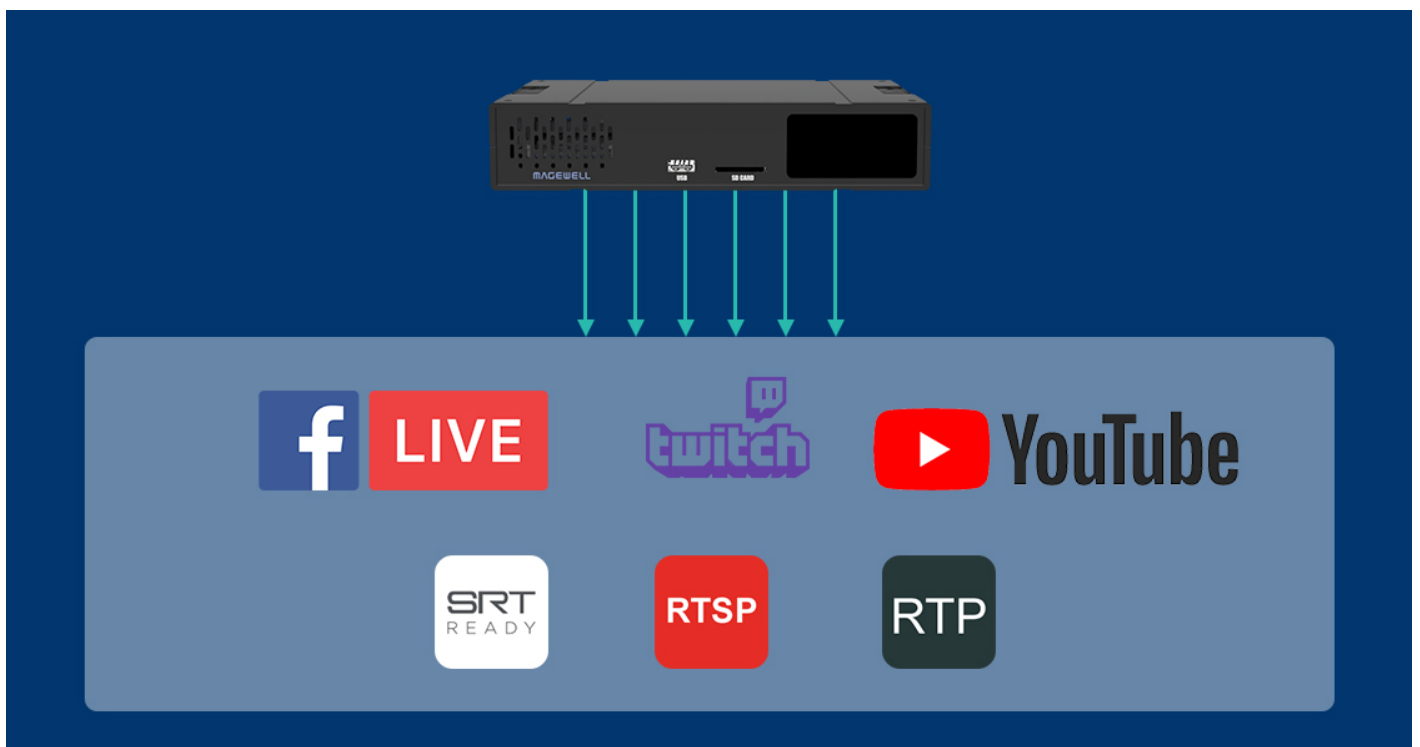
Flexible Formats and Protocols

Ultra Encode AIO supports multiple video encoding formats – including H.264, H.265 (HEVC), NDI®|HX 2, and NDI®|HX 3 – and a wide array of delivery protocols including RTMP, RTMPS, SRT, RTSP, RTP, HLS, and TVU's ISSP technology. Up to eight channels of audio can be encoded in AAC format.



Powerful Encoding & Streaming Capabilities

Video can be encoded at resolutions up to 4096x2160 at 30 frames per second from HDMI sources, or up to 1080p HD at 60 fps from the device's 3G-SDI input. Ultra Encode AIO can stream to up to six different target destinations simultaneously at bitrates up to 32Mbps per stream.



4Kp30

Versatile Recording and Streaming

Ultra Encode AIO supports streaming and recording simultaneously. Inputs can be recorded as files to an SD card or an external, USB-connected storage device or networked storage (NFS, CIFS or SMB).





New NDI®|HX 3 Support

For IP production workflows and AV-over-IP signal distribution architectures, Ultra Encode AIO supports NDI®|HX 3, the latest version of the high-efficiency, low-bandwidth option in the popular NDI® IP media transport technology platform. Ultra Encode AIO also supports the earlier NDI®|HX 2 for broad compatibility.

Product Info

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Ultra Encode AIO

Advanced Streaming and Recording Encoder

SKU:

531300000 (for US/EU/UK/AU/JP users);

531300001 KR

- Mixes video from the HDMI and SDI inputs (picture-in-picture or side-by-side) into a combined output
- Allow simultaneous 6 sessions over multiple streaming protocols at 32Mbps per session
- High-efficiency, low-bandwidth NDI[®]|HX 3 supported
- Supports streaming and recording schedule
- Rack-mountable form factor

Specification and Features

Input Features

- HDMI max input signal: 4096x2160 60fps 4:2:0; 4096x2160 30fps 4:4:4/4:2:2
- SDI max input signal: 2048x1080 60fps 4:2:2
- Input 16-Channel SDI embedded audio
- Input 8-Channel, 24-bit HDMI embedded audio
- Input Audio from 3.5mm LINE IN

Encoding Features

- Dual stream encoding profiles: main stream and sub stream (Max bitrate: 32Mbps)
- Support for H.264/HEVC video encoding
- Encoding 8-channel AAC

Streaming Features

- Natively support streaming to Facebook, Twitch and YouTube
- Supported streaming protocols: RTSP/RTMP/RTMPS/SRT Caller/SRT Listener/NDI[®]|HX2/NDI[®]|HX3/HLS/TS over UDP/TS over RTP/TVU ISSP
- Allow simultaneous 6 sessions over multiple streaming protocols
- Support for streaming schedule for each destination

Recording Features

- Record to an SD card or external USB storage, MP4 or MOV format supported
- Support for loop recording when recording to SD card
- Share recorded files with NFS/CIFS/SMB
- Support for recording schedule

Others

- LCD monitor for system status and input signal
- Internet connectivity via wired Ethernet and wireless network
- Remote control via Web GUI and Magewell Cloud
- Provide HTTP APIs

Full specifications and features

Documents

 Quick Start Guide for Ultra Encode AIO
English | 3.09 MB | 2023/03/02

[Download](#)

Accessory

Included

Power Adapter x1
Part number: ACC10010

HDMI Cable x1
Part number: ACC00090

Wi-Fi Antenna x2
Part number: ACC09021

M2.5 Screw x8
Part number: PAR10231

Retainer Plate x1
Part number: PAR10247

1U Short Rack Ear x1
Part number: ACC10016

1U Long Rack Ear x2
Part number: ACC10017

We recommend you always use the included accessories to avoid unnecessary damage to your device.

Please note, the appearance of the power adapter may vary due to suppliers or batches. The images here are for reference only.

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