

# HELO



Record, Stream, Deliver  
H.264 at the touch of a button



# HELO



Only **\$1,295** US MSRP\*

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HELO is a cost effective flexible recording and streaming appliance with 1080p 60 capability and the flexibility to be used anywhere, due to its compact size and robust aluminum case.

HELO provides both SDI and HDMI looping inputs, the ability to record to SD cards, USB drives or Network shares, and simultaneously streams across Ethernet to your CDN, for a rich combination of features in a stand-alone solution.

## Record, Stream, Deliver Stand-Alone Professional H.264 Streaming and Recording Solution

HELO is AJA's new H.264 recording and streaming stand-alone appliance.

HELO brings both SDI and HDMI I/O into a single appliance with the ability to simultaneously stream out to your Content Delivery Network (CDN) as well as encode and record beautiful H.264 files to either SD cards, USB storage or network based storage simultaneously.

To streamline on-site workflows, HELO offers dedicated front-panel buttons for Recording and Streaming. A web browser based UI allows for easy configuration and control.

Simply connect any video device to HELO via 3G-SDI or HDMI and record H.264 files and stream as needed.

Small and easily portable, HELO opens up a world of new streaming workflows for AV, live events, houses of worship, webcasting, corporate communications, production and post.

HELO is easy to configure and control, with powerful streaming and recording options, in a compact, robust, and portable device. Professional streaming has never been easier.

# HELO



## Connect

Your projects vary, you need flexible connectivity. HELO delivers with 3G-SDI and HDMI video inputs and outputs.

24-bit audio at 48 kHz embedded in the SDI or HDMI signal ensures you never lose sync, plus Line Level, Unbalanced stereo 3.5mm TRS connectors have you covered.



## Encode

Your goal is efficiency with beautiful results.

HELO encodes to H.264/MPEG-4 ensuring bandwidth efficiencies with widely compatible files. From tablets to smartphones, desktops to Smart TVs, no translation necessary.



## Record

Live means Now. Live means Pressure.

HELO offers a dedicated Record button right on the front of HELO's small and mobile interface for immediate recording.

Simply plug in your NTFS 3.1 or FAT 32 formatted USB drive, SD card or connected network storage and record immediately.

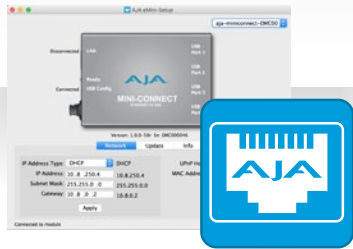


## Stream

Streaming can be complex. HELO makes it simple.

A USB connection and robust web browser based UI allows you to setup and configure your CDN connection before you even arrive at your event. Once there, simply press the Stream button and deliver your project across HELO's Ethernet connection, which allows support for RTP/RTSP, RTMP as well as Unicast.

# HELO



## Web Server Built-In

You serve the Web. HELO serves You.

AJA eMini-Setup and HELO's easy to use web browser Interface make HELO simple to setup, configure and update firmware at any time. You can connect to HELO either via its direct USB port to set static/dynamic IP addresses though AJA eMini-Setup software or over the network using HELO's web server generated UI.



## Mass Media

Cost effective media choices.

HELO's H.264 based encoding not only ensures beautiful, efficiently sized files, it means your recording medium choices are wide open. Utilize USB thumb sticks, drives and RAIDs, common SD or SDHC media or network shares across a switch. Pick to suit your project.



## 1080p 60

It's a fast world. Capture it.

1080p 60 is the defacto standard today for delivery for sports, live events, crystal clear video conferencing, webinars and games capture.

From SD to HD 720p and 1080p 60, HELO has you covered.



## Small Form Factor

Size matters.

HELO's small and robust form factor is essential for your busy schedule. Live events, webcasts, production and post locations vary and you need a device that can take the heat. HELO is designed to travel well, fit wherever needed and continuously deliver; all with full size connectivity.

# HELO

## Connections



**Record Button**  
Press for Instant Record

**Stream Button**  
Press for Instant Stream

**Mini USB Connection**  
Configuration and  
Firmware Updates

**USB 2.0 Storage  
Connection**

**SD/SDHC Port**  
Insert Card for Recording



**Analog Audio Connections**  
3.5mm TRS Connectors

**HD/SD 3G-SDI In/Out**

**HDMI v1.4a In/Out**

**RJ45**  
10/100/1000  
Ethernet Connection

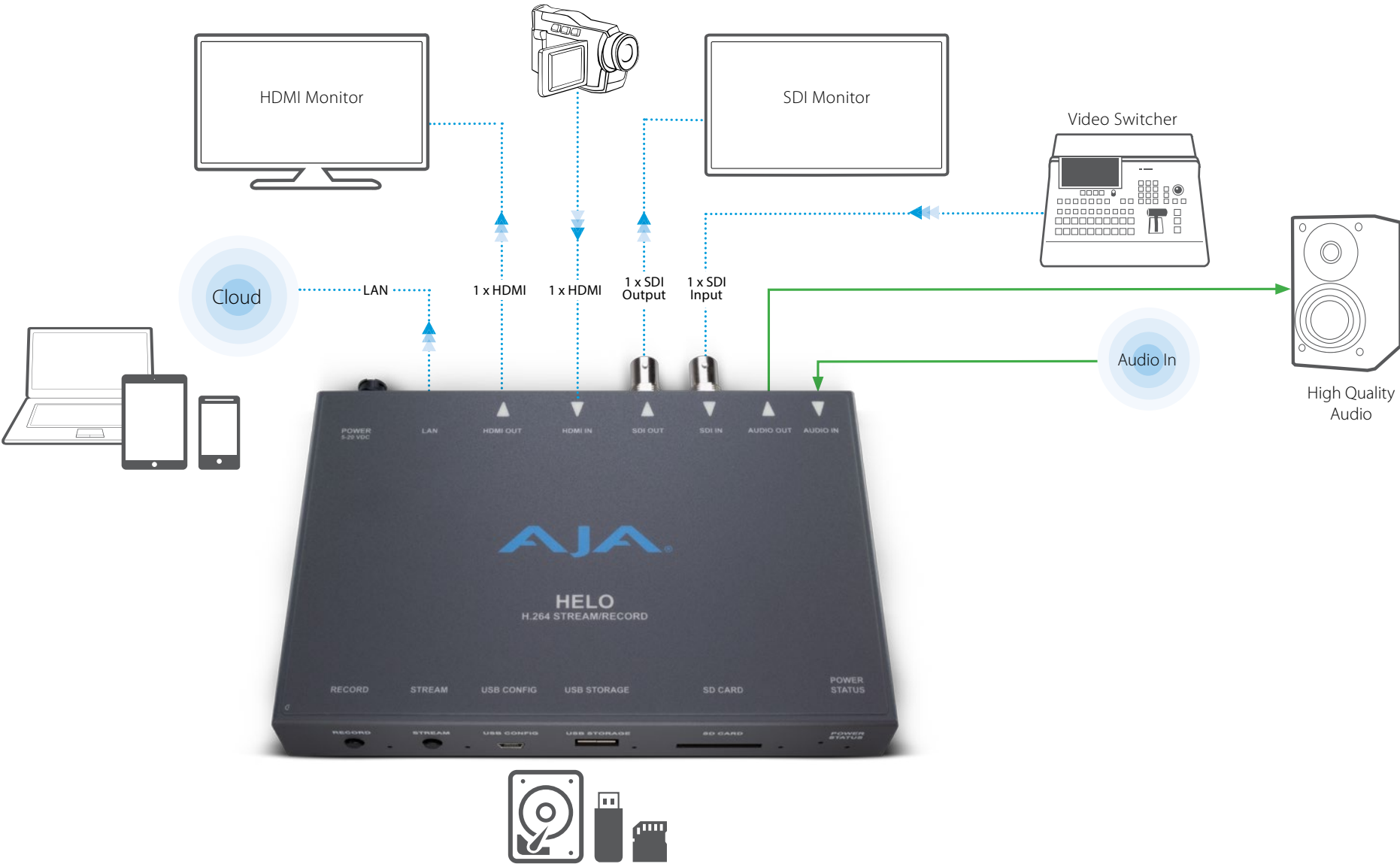
**5-20VDC Power Supply**  
(Supplied)

[Click here](#)

For full product specifications visit [www.aja.com/en/products/helo/#techspecs](http://www.aja.com/en/products/helo/#techspecs)

# HELO

## Workflow



# HELO

## Tech Specs

### Video Formats

- (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60\*
- (HD) 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1080i 25, 29.97, 30
- (HD) 720p 50, 59.94, 60
- (SD) 525i, 625i

\*2K inputs are center cut to 1080p and are only supported on SDI input

### Video Codec Support

- H.264/MPEG-4 Encoder

### Video Encoding Parameters

- 100 kbps to 20 Mbps (TBD) streamed output
- 100 kbps to 20 Mbps (TBD) recorded output
- Up to 1080p 60
- Supports Baseline, Main and High
- 2.0, 3.0, 3.1, 4.0 and 4.1 level support

### Audio Encoding Parameters

- 32 kbps to 256 kbps
- 32, 44.1 and 48 kHz 2-Channel stereo
- MPEG-4 AAC-LC

### Protocols

- RTMP, RTSP/RTP, Unicast and Multi Unicast (3-10 Clients)

### Storage

- 1 x USB 2.0 slot, (Can be NTFS 3.1 or FAT32)
- 1 x SD Card slot, SD and SDHC cards (NTFS 3.1)
- Mounted Network Share

### Video Input Digital

- 1 x 3G-SDI, SMPTE-259/292/296/424, 10-bit
- Single Link 4:2:2, 4:4:4 (1 x BNC)
- 1 x HDMI Standard Type A connector
- HDMI v1.4a, RGB or YCbCr

### Video Output Digital

- 1 x 3G-SDI, SMPTE-292/296/424, 10-bit
- Single Link 4:2:2 or 4:4:4 (1 x BNC)
- 1 x HDMI Standard Type A connector
- HDMI v1.4a, RGB or YCbCr

### Audio Input Digital

- 2-Channel, 24-bit SDI embedded audio, 48 kHz sample rate, synchronous
- 2-Channel, 24-bit HDMI embedded audio, 48 kHz sample rate, synchronous

### Audio Input Analog

- 2-Channel, Analog (Line Level, Unbalanced stereo) 1 x 3.5mm TRS connector)

### Audio Output Digital

- 2-Channel, 24-bit SDI embedded audio, 48 kHz sample rate, synchronous
- 2-Channel, 24-bit HDMI embedded audio, 48 kHz sample rate, synchronous

### Audio Output Analog

- 2-Channel, Analog (Line Level, Unbalanced stereo) 1 x 3.5mm TRS connector)

### Network Interface

- 10/100/1000 Ethernet (RJ-45)
- Embedded web server for Configuration and Control

### User Interface

- Stream Button
- Record Button
- Web UI
- Simple Network Configuration via AJA eMini-Setup (OSX and PC)

### Size (w x d x h)

- 7.00" x 4.66" x 1.02" (177.8mm x 139.8mm x 25.8mm)

### Weight

- 0.8 lb (0.4 kg)

### Power

- 100-240V, 50/60 Hz Universal Input, +5-20V DC 13W Max

### Environment

- Operating Temperature: 0 to 40 C (32 to 104 F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)
- Safe Storage Temperature (Power OFF): -40 to 60C (-40 to 140 F)

[Click here](#)

For full product specifications [www.aja.com/en/products/helo/helo#techspecs](http://www.aja.com/en/products/helo/helo#techspecs)

## HELO 3 Year Warranty

AJA Video warrants that HELO will be free from defects in materials and workmanship for a period of three years from the date of purchase.

## About AJA Video Systems, Inc.

Since 1993, AJA Video has been a leading manufacturer of video interface and conversion solutions, bringing high quality, cost effective digital video products to the professional, broadcast and postproduction markets.

AJA products are designed and manufactured at our facilities in Grass Valley, California, and sold through an extensive sales channel of resellers and systems integrators around the world. For further information, please see our website at [www.aja.com](http://www.aja.com)