HELO

HELO
H.264 STREAM/RECORD

POWER 5-20 VDC | LAN | ▲ HDMI OUT | ▼ HDMI IN | ▲ SDI OUT | ▼ SDI IN | ▲ AUDIO OUT | ▼ AUDIO IN

RECORD | STREAM | USB CONFIG | USB STORAGE | SD CARD | POWER STATUS

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Stream, Record and Deliver
H.264 at the Touch of a Button

AJA VIDEO SYSTEMS

HELO

POWER 5-20 VDC · LAN · HDMI OUT · HDMI IN · SDI OUT · SDI IN · AUDIO OUT · AUDIO IN

AJA®

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

Find a Reseller

HELO is a cost effective flexible streaming and recording 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 the Internet to your CDN, for a rich combination of features in a stand-alone solution.

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

HELO is AJA's H.264 streaming and recording 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, SDHC or SDXC cards, USB storage or NFS or CIFS, mounted network shares.

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.

HELO opens up a world of new streaming workflows for AV, live events, houses of worship, webcasting, corporate communications, production and post. With the added ability to schedule events on an internal or remote calendar and the availability of network control API, users can set up the HELO for error free operation without the need for manual intervention.

HELO is easy to configure and control, with powerful streaming and recording options, compatible with leading CDN's like Wowza®, YouTube™ and Facebook® Live, all in a compact, robust, and portable device. Professional streaming has never been more effortless.

WOWZA media systems · twitch · USTREAM · f LIVE · You Tube™ Live · Akamai · KALTURA

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.

Stream

Streaming can be complex. HELO makes it simple.

A USB connection and robust web browser based UI allows you to set up 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 RTMP, RTSP and unicast or multicast RTP. HLS streaming further adds direct interoperability with Apple® iPads® and other consumer devices.

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. It also provides simultaneous redundant recording in up to two medias, CIFS, NFS, SD, and USB.

Simply plug in your exFAT or FAT 32 formatted USB drive, exFAT formatted SD card or connected network storage (CIFS or NFS) and record immediately.

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 set up, configure and update firmware at any time. You can connect to HELO either via its direct USB port to set static/dynamic IP addresses through 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 thumbsticks, drives, and RAIDs, common SD, SDHC or SDXC 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 de facto standard today for delivery for sports, live events, crystal clear video conferencing, webinars and games capture.

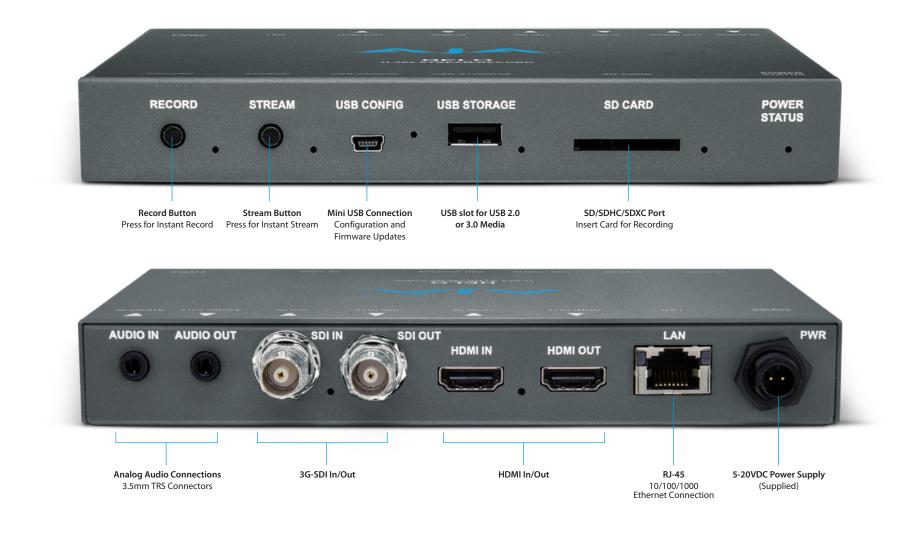From SD to HD 720p and 1080p 60, HELO has you covered.

Scheduler and Automation Control

Point HELO to an event calendar for a set and forget recording and streaming experience.

For more complex situations, achieve full automation with easy to script control API.
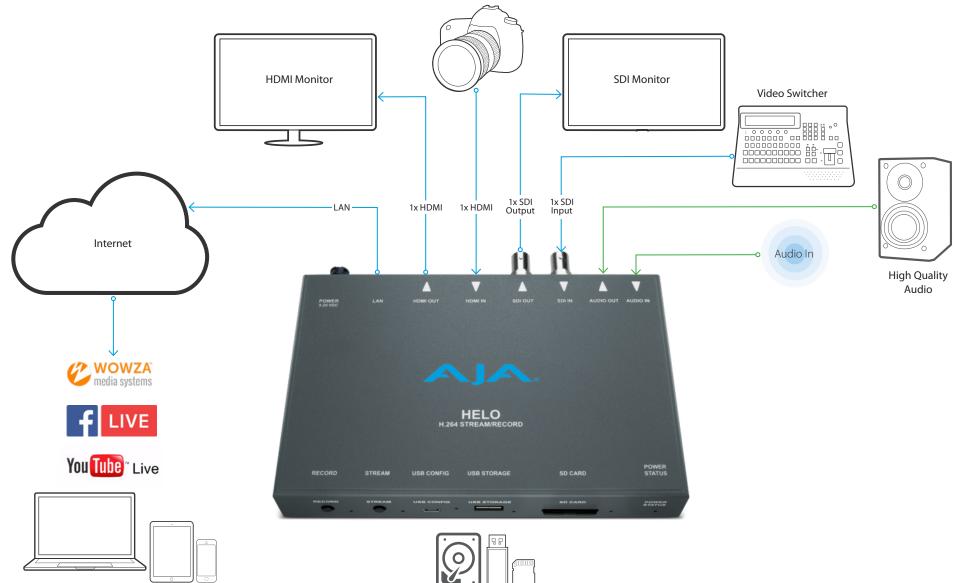
HELO

Connections

Record Button
Press for Instant Record

Stream Button
Press for Instant Stream

Mini USB Connection
Configuration and
Firmware Updates

**USB slot for USB 2.0
or 3.0 Media**

SD/SDHC/SDXC Port
Insert Card for Recording

Analog Audio Connections
3.5mm TRS Connectors

3G-SDI In/Out

HDMI In/Out

RJ-45
10/100/1000
Ethernet Connection

5-20VDC Power Supply
(Supplied)

Click here   For full product specifications visit www.aja.com/en/products/helo/#techspecs

HELO

Workflow

HDMI Monitor

SDI Monitor

Video Switcher

Internet

LAN

1x HDMI

1x HDMI

1x SDI Output

1x SDI Input

Audio In

High Quality Audio

WOWZA media systems

LIVE

You Tube Live

POWER 5-20 VDC   LAN   HDMI OUT   HDMI IN   SDI OUT   SDI IN   AUDIO OUT   AUDIO IN

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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 50, 59.94, 60
- (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 streamed output
- 100 kbps to 20 Mbps recorded output
- Up to 1080p 60
- Supports Baseline, Main and High

Audio Encoding Parameters

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

Protocols

- RTMP, RTSP (10 clients), RTMPE, HTTPS and RTP/UDP Unicast and Multi Unicast

Storage

- 1x USB Slot (USB 2.0 and USB 3.0 media, exFAT or FAT32)
- 1x SD card slot, SD, SDHC, SDXC cards (exFAT)
- Mounted Network Share (CIFS or NFS)

Video Input Digital

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

Video Output Digital

- 1x 3G-SDI, SMPTE-292/296/424, 10-bit
  - Single Link 4:2:2 or 4:4:4 (1x BNC)
- 1x 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 1x 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 1x 3.5mm TRS connector)

Network Interface

- 10/100/1000 Ethernet (RJ-45)
- Embedded web server for Configuration and Control
- Regionalized interface support - Korean, Simplified Chinese and Japanese*

* (Future firmware update)

User Interface

- Stream Button
- Record Button
- Web UI
- Simple Web Configuration via AJA eMini-Setup (macOS and Windows)
- Integrated calendar

Control and Automation

- Integrated calendar scheduler
- Support remote ICS calendars
- Scriptable REST control API
- Closed Captioning supported

Size (w x d x h)

- 7.00" x 4.66" x 1.02" (177.8 x 118.37 x 25.91 mm)

Weight

- 0.8 lb (0.4 kg)

Power

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

Environment

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

HELO Three 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**

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