AJA HELO v1.1.1 Release Notes

HELO Firmware v1.1.1

- Your HELO device will ship with firmware pre-loaded.

- AJA's eMini-Setup application allows for quick configuration and firmware updates using an included USB cable.

- AJA recommends using the most current firmware available on the AJA support site.

- For support information, manuals, firmware and eMini-Setup please visit www.aja.com/products/helo#support

New Features

- Recording and streaming scheduler
    - Local calendar, editable with the web UI; or:
    - Import ICS (iCal) file; or:
    - Utilize read-only remote iCal services like Google Calendar
- Redundant recording to two media destinations
- REST API Documentation for control and monitoring
- Increased recording file segment duration of 360 minutes for TS streams
- Increased number of supported RTSP streams – up to 10
- Automatic power-on start encoding to stream and/or record
- Auto-reconnect and resume after streaming disconnect
- Streaming RTP over UDP with unicast and multicast support
- Streaming MPTS over UDP with unicast and multicast support
- Support for CDN's and appliances
    - Elemental Live encoder appliances and Elemental Cloud
    - Amino set-top boxes
    - Wowza Appliance and Cloud
    - StreamShark.io
    - Akamai and other Akamai hosted services

- Kaltura
- Adobe Media Platform
  - Color codec optimum streaming / recording bit-rate and GOP settings

Improvements and Enhancements

v1.1
- Tune frequency of RTCP Sender Reports to improve RTSP interoperability with some decoders/players
- Fixes loss-of-video test pattern Issues
- Improved long duration streaming performance with YouTube
- Fixes occasional frame corruption observed with high frame-rate RTMP streaming
- Fixed various URL and stream name character issues
- Fixed overall stream performance
- Fixed 1080i to 720 de-interlacing issues
- Fixed UPnP feature
- Fixed issue where streaming would not stop when server storage filled up
- Fixed RTMP DNS resolution issues
- Fixed B-Frame issues
- Fixed Factory Reset
- Fixed HDMI Input timing
- Fixed NFS compatibility with some NAS devices

v1.1.1
- Fixed inconsistent serial number on web UI
- Removed unused libavcodec software library from firmware

Known Issues and Limitations

- The HDMI output is a monitor/proxy output related to the encoders output, and may not be suitable for rebroadcast.
- The SDI output is a loop of the SDI input, and not an output from the Encoder.
- The HDMI input cannot be viewed on the SDI output.
- Interlaced video input is de-interlaced to progressive before encoding.
- Scheduler does not support exceptions to recurring events

- PsF sources may not appear as valid inputs (SDI input only).
- The maximum duration of recorded MP4 and MOV files is 60 minutes. Longer recordings are segmented over multiple files, each with a maximum duration of 60 minutes.
- While recording .mp4 or .mov, files to media, when changing to a new file segment, there is a small chance for a dropped frame at the beginning of the next file segment. This problem is not exhibited while recording .ts files.
- In the above situation, multiple frame drops may be observed when recording to network CIFS shares. This is not exhibited while recording to NFS shared folders or while recording .ts files.
- When streaming via RTMP if a failure should occur, sometimes the streaming LED indicator on the front panel and the HELO web UI may report an incorrect state for up to 3 minutes.
- HDMI Input sometimes cannot be detected if plugged in after power up. Unplugging it and plugging it in again fixes it.

Technical Support

AJA Technical Support is free and available to help you answer questions or resolve issues with any of your AJA products.

AJA Technical Support can be contacted in several ways:

Email: support@aja.com   Phone: +1-530-271-3190   Fax: +1-530-274-9442

Web: www.aja.com/support   Shipping: 180 Litton Dr. Grass Valley, CA 95945 USA