

AJA HELO Plus v2.1.2 - Release Notes

Firmware for HELO Plus

Introduction

HELO Plus v2.1.2 is a maintenance release. It is highly recommended that you update to this firmware to avoid any potential issues.

Be sure to consult the Installation and Operation Guide (user manual) for detailed information about features and configuration guidelines. The most current documentation, along with editable sample graphics projects (in Adobe Photoshop format) can always be found on the [HELO Plus Support Page](#).

Updates and Improvements in v2.1.2

- In previous versions of firmware some users reported issues with remote calendar events not triggering the system appropriately. This issue has been resolved.
- In previous versions of firmware, some users reported that local calendar history events were not showing up correctly in the web UI. This issue has been resolved.
- In previous versions of firmware, it could be difficult to view short calendar events, as they were displayed on top of each other in the web UI. This has been corrected – consecutive short events are now displayed individually in the scheduler view.

Known Issues and Limitations

- To use a Mac as an SMB target, SMB encryption/signing must be turned off on the Mac. To do this, open Terminal on the Mac and type
`<sudo defaults write /Library/Preferences/SystemConfiguration/com.apple.smb.server SigningRequired - bool FALSE>`
(without the opening and closing `<>`) at the prompt. You will be asked to enter the administrator password and after entering it, SMB encryption/signing will be turned off. The Mac can then be used as an SMB target. More discussion on this topic can be found on the Apple support site at <https://discussions.apple.com/thread/250486055?sortBy=best>
- If a streaming session is started when the selected DNS service is not available, the system will report “Network Name not found” will be displayed even though the system will start to stream its output. The workaround is to always ensure that the DNS service is active before starting a streaming session.
- Customers should not use a USB hub to connect a HELO Plus to USB media. Use of a hub may cause operational issues and prevent the USB drive from being discovered by the HELO Plus.
- Enabling segmented recording while using B-frames is not recommended. While the system accurately encodes all incoming frames, available “off-the-shelf” players will sometimes skip a frame at the end or start of a segment if B-frames are enabled. The workaround is to set the number of B-frames on an encoder to zero if the encoder is being used as the source of segmented recordings.
- Recording from an encoder that has Frame Rate set as anything other than “Full” is not recommended. Recordings made with the Frame Rate set to “Half” or “Quarter” may not be playable by HELO Plus, and may not show up in a clip list (since they’re not playable), while others might. For example, a 1080p5994 signal, when set to half frame rate will record as 1080p2997, which is playable by HELO Plus and therefore shows up in the clip listing. If, however, the frame rate parameter for that encoder is set to “Quarter”, any recording will be made at 1080p14.985. External players may be able to play that clip back, but as it is not a broadcast standard, HELO Plus cannot play the clip, nor will it show up in any clip listing.
- When recording using the “Long Single Segment” mode, if the recording duration reaches 12 hours (the maximum value for this mode), the recording will terminate with a “Recording Failed” alarm. This does not mean that the recording is unplayable - it simply means that, since the recording was still in process when the maximum duration was reached. The user's intention to record longer than 12 hours has resulted in an internally terminated recording - so the system alarms that fact. The segment, in its entirety, is fully playable. Subject to available storage capacity, longer recordings can be made using the segmented recording feature.
- Formatting of USB or SD media can be carried out directly on the HELO Plus – and indeed, that is the preferred option. However, it is also possible to format these devices on an external computer. If formatting in an external computer, it is important to ensure that the drive is formatted with a single exFAT partition which uses up the entire storage device. Having multiple partitions can cause unintended consequences and is strongly discouraged.

- HELO Plus records to local media formatted as FAT or exFAT (exFAT is preferred). USB or SD drives which are formatted as NTFS will be reported as unmountable. If a drive is formatted as APFS in a Mac, HELO Plus will ignore that APFS partition. However, while formatting drives as APFS, Mac computers also install a small (200MB) vFAT partition. If a USB or SD drive which has been formatted as APFS in a Mac is inserted into HELO Plus, the system will mount the vFat partition. This is too small for almost all recording activities. Therefore, users should not attempt to insert a drive which has been formatted as APFS in a Mac.
- HELO Plus supports recording to external SMB mounts, which can be dedicated servers, or computers running standard desktop operating systems. HELO Plus can automatically negotiate the SMB dialog to be used for communications, but users can elect to manually force SMB 2.0, 2.1.1 or 3.0. Customers using Mac computers should only use High Sierra or newer OS as SMB targets. Note that auto mode will only negotiate up to SMB 3.0.2. If a customer wants to use SMB 3.1.1, they must manually select that option.
- When using SMB, the HELO Plus can only write to the top level share folder (i.e. \\<server name>\top level folder) - and only if that top level share gives the HELO Plus read/write permissions. The system is unable to write to subdirectories of that top level folder, regardless of permissions set on that subdirectory.
- HELO Plus has the ability to make longer recordings as a series of smaller files (“Segments”) rather than a single large file. This allows users to only download the segments of a long recording that are relevant to their final product, rather than having to download a much larger file. Each segment contains all of the essence that makes up the segment. HELO Plus records the audio portion of the segment as AAC essence. NLEs and DAWs vary dramatically in the way they handle AAC decoding, which may result in audio “clicks” when those systems stitch the segments into a continuous longer segment. Should this be an issue, the workaround is to increase the length of the segments prior to recording.
- Customers using VLC version 3.0.17 or later on Windows or macOS may occasionally see repeated or missing CC letters when viewing an RTSP stream. Prior versions of VLC on either platform do not exhibit this issue. The workaround is to use a prior version of VLC, or to use another vendor’s stream viewer.
- When using PlayToStream in the absence of a locked video signal, the VSG format must be compatible with the PlayToStream clip format. If this is not done (or if the VSG format is set to Auto and an incompatible signal was most recently applied) PlayToStream will fail.
- It is possible to configure an RTMP stream to use an encoder which is set for ¼ frame rate with B frames turned on, which will result in a non-decodable stream. This issue will be addressed in a future release of software.
- If HELO Plus is being used in a Group operation, and is set as the Group Leader, setting another device in the group to be leader (in that device’s own webUI) may sometimes fail to clear the Leader button on the HELO Plus. Refreshing the browser for the HELO Plus will correct the issue.

Technical Support

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

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