

Products: EVC300/EVC350/EV900/EVC950

Firmware Version: 00.10.16.36

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Revision History and System Requirement

Firmware Version	Alias	Region	Date	Model
00.10.16.36	Boom	WW	June 15th, 2018	EVC300 / EVC350 / EVC900 / EVC950
00.10.16.01	Boom	WW	March 31th, 2018	EVC300 / EVC350 / EVC900 / EVC950
00.10.14.50	Boom	WW	Nov 20th, 2017	EVC300 / EVC350 / EVC900 / EVC950
00.10.14.46	Boom	WW	Sep 19th, 2017	EVC300 / EVC350 / EVC900 / EVC950
00.10.14.34	Boom	WW	July 6th, 2017	EVC300 / EVC350 / EVC900 / EVC950
00.10.14.26	Boom	WW	March 3th, 2017	EVC300 / EVC350 / EVC900 / EVC950
00.10.14.24	Boom	WW	Feb 6th, 2017	EVC300 / EVC350 / EVC900 / EVC950
00.10.14.08	Boom	WW	Sep 1st, 2016	EVC300 / EVC350 / EVC900 / EVC950

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Important Notice

1. Both camera and codec have their own applications, and we will upgrade all or part of them each system upgrade, so please connect the default camera to your AVer VC system before upgrading it.
2. During system upgrade, please DON'T turn off the power or unplug the USB flash drive for any reasons.
3. WebTool doesn't support IE8 and older versions.
4. Downgrading firmware to any older version is prohibited.
5. In a video conferencing, we can't transmit both H.264 baseline and high profile videos at the same time. If a user only allows receiving H.264 high profile video but others choose H.264 baseline video, that user will receive no videos because our AVer VC system will only send H.264 baseline videos. To avoid such kind of embarrassment, we highly suggest users to enable H.264 baseline and high profile supports simultaneously.
6. In a video conferencing, we can't transmit both H.263 and H.263^{+} videos at the same time. If a user only allows receiving H.263^{+} videos but others choose H.263 videos, that user will receive no videos because our AVer VC system will only send H.263 videos. To avoid such kind of embarrassment, we highly suggest users to enable H.263 and H.263^{+} supports simultaneously.
7. Playback is not supported on EVC series when users try to play a video recorded by HVC series.
8. To improve H.263+ stability and compatibility, we change some fundamental encoding blocks, so any firmware older than 10.08.17 MUST upgrade to 10.08.17, and then latter firmware. You can download 10.08.17 via our website: http://communication.aver.com/DownloadFile.aspx?n=3167|F45F15F3-A161-469D-BDCC-CA4F5CF4C78B&t=ServiceDownload
9. H.264 SVC will be applicable ONLY by bandwidth lower than 2Mbs and illuminance higher than 10lux.
10. Through Google Drive backup, AVer VC system can upload screenshots and recordings automatically when system is idle after one hour. File uploading could be interrupted by incoming video calls, and would not retransmit again.
11. Please refer the updated compatible list via the following link: http://communication.aver.com/page/compatibility
12. When the user use the older than 10.12.61 firmware version, and upgrade to the newer firmware. There will happen the system volume be increased after the first time system reboot. Please modify the suitable volume level one-time based on your use environment.

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Upgrade Instructions

Before upgrade:

1. Prepare one USB flash drive with available spaces over 200MB.
2. Download the ZIP file from AVer website, unzip it and save the DAT file in the USB flash drive.

   Tips: 2 files are included in the ZIP file – firmware and release notes. You can check the MD5 checksum of firmware (.dat) to make sure file integrity before you save it in the flash drive.*

File name	MD5 checksum
00.10.16.36.dat	71d055dd904065cf6a45c634275b630a

Upgrade instructions:

1. Turn on your AVer VC system and wait for system startup completion.

   Tips: it will take 2 minutes to complete the whole startup process.
2. Insert the USB Flash drive into a USB Port of AVer VC System.

   Tips: Inserting an USB flash drive into AVer VC system before completion of the startup process will result in startup failure, so please DON'T do it.
3. AVer VC system will detect and install the firmware from the USB flash drive automatically.
4. AVer VC system will restart itself to finalize firmware upgrade.

   Tips: Before rebooting system, AVer VC system will delete firmware (.dat) in the USB flash drive.*

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New Features

Firmware Version	New Features
00.10.16.36	1. [System] Support FEC (Forward Error Correction): To recover from commonly occurring bit-error cases and thus reduce the effective packet loss rate between AVer SVC / EVC series. Adds redundancy (FEC steam) to the transmitted data to allow the receiver to detect and correct errors (within some limits) without the need to resend any data. Please go to Settings > General Setting > System Setting > Enable FEC (Forward Error Correction). 2. [System] Enhance the audio performance for superior voice clear and Acoustic Echo Cancellation (AEC).
00.10.16.01	1. [System] Update the latest version of OpenSSH.
00.10.14.50	1. [Applications] Enable H.239 Hole Punching, go to Settings -> Network -> Firewall, to enhance transmit content sharing compatibility in H.323 protocol.
00.10.14.46	1. [Applications] Support Microsoft Skype for Business license upgrade feature.
00.10.14.34	1. [Applications] Add 192 kbps bandwidth call quality at dial setting page. 2. [Applications] Video PLR(Packet Loss Reduction) Method: go to Settings -> Network -> Advanced Network. User can setting this mode to enhance the video performance during the package lost condition only valid on between AVer and AVer codec product. 3. [Applications] Add Vietnamese language choose in the OSD 4. [System] Help to improve AVer video conferencing system by sending anonymous usage statistics, you can turn on / off this function at Settings -> System Settings. 5. [System] H.323 name support “@” character fill-in. 6. [System] Support <MeetingID>:<Passcode>@<IP> for BLUEJEANS
00.10.14.26	1. [System] Enhance the video performance during the package lost condition only valid on between AVer and AVer codec product.
00.10.14.24	2. [Applications] Network Condition Message: go to Settings -> General Setting -> System Settings. You can turn of/off the message of “Network condition is bad. Please adjust your bandwidth, and reconnect again.” 3. [Applications] Cancel the Scene mode function from Setting -> Video / Audio -> Camera, the system will automatically reduce Moire phenomenon. 4. [Applications] Speaker Output: go to Settings -> Video / Audio -> Microphone -> Speaker Output. Default settings was Auto, you can choose your speaker environment for the best audio performance. 5. [System] Enhance the audio performance for superior voice clear and Acoustic Echo Cancellation (AEC).

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	6. [System] Add a confirmation for USB Flash Device ready. To avoid the recording file cannot be saved completed. 7. [System] Noise suppression value (-40dB -> -20dB), to enhance the really video quality when the background noise too loud.
00.10.14.08	1. [Applications] iSCSI storage network: go to Settings -> Network-> iSCSI. EVC can through iSCSI storage settings to extend NAS storage devices, which can have a large capacity to store video recording files. 2. [Applications] AAC-LD: go to Settings -> Video/Audio -> Audio Codes, EVC can setup enable AAC-LD audio codes to get a broader sound frequency to get better sound quality. This function only available for EVC350/EVC950. 3. [Applications] Broadcasting Message: go to Settings-> General Setting-> System Settings. New public broadcast messaging feature, once users press AVer Point red button of the remote controller for 3 seconds, the screen appears to the public broadcast message for all participants to see the message, the user can edit their own content.

Problems Fixed

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Firmware Version	Problem Fixed
00.10.16.36	1. AAC-LD audio abnormal (connected to some Tandberg / Cisco server)
00.10.16.01	1. Modify the path of the LDAP temporary file, to prevent the function failure when the file system is changed to Read Only.
00.10.14.50	1. Fixed CISCO CMS1000 call AVer EVC series cannot use BFCP content sharing in SIP communication.
00.10.14.46	1. Cisco SX20 cannot hear AAC-LD codec audio problem from EVC.
00.10.14.34	1. Disconnect the HDMI-1 output monitor during VC meeting, then change to connect HDMI-2 monitor, that monitor shows the camera display screen, not the VC meeting.
00.10.14.20	1. The Image greenish problem for eCam PTZ II camera. 2. Prevent BFCP client crash when receiving the pending message. 3. Improved compatibility with Pexsip system with BFCP presentation. 4. Enhancement H.239 content image quality in lower bandwidth when connecting a device without enough streaming buffer.
00.10.12.96	1. Fixed that the function abnormality of the administration password setup cause the menu of the screen be locked and the screen is black image.
00.10.12.81	1. Reduce Auto Focus hunting time for eCam PTZ II camera. 2. HDMI1 Compatible Offset Frame: on Webtool, go to Settings -> General Setting -> Monitor, to solve some HDMI1 monitors have the image offset problem. 3. When the default layout setting is not Layout-1 and start playback the recording file, the image was crash.
00.10.12.66	1. Fixed that in content sharing mode, at 1/7 layout will be blurred image problem occurred.
00.10.12.63	1. Fixed that when the user reset factory default setting, but the initial Wizard Menu was disappear.
00.10.12.61	1. Modify the negotiation of H.239 content sharing with Lifesize Room200, to solve can't receive the content problem.
00.10.12.17	1. A mismatch between multi-languages, French and Spanish. 2. Fixed that BFCP compatibility issues with Lifesize ICON 600. 3. Change TCS audio codec order to G.722.1c -> G.722.1 -> G.722 -> G.711u to solve the voice compatibility issue with Lifesize Multipoint & Icon600. 4. Fixed that video resolution compatibility issues with Polycom HDX7000.

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Known Issues

Firmware Version	Known Issues
00.10.16.36	1. Once FEC feature is enabled, SRTP and AES do not allow the setting are enable at the same time.
00.10.16.01	1. Due to EVC series implement new Nand-Flash component, so this version firmware cannot downgrade firmware to older version. (For Example: 16.01 -> 14.xx).
00.10.14.20	1. When MIC input source setup at “MIC in”, please set up AVer’s MIC connect to EVC always, otherwise the remote side will hear the abnormal voice.
00.10.12.96	1. "Client to Client call" function, the BFCP content sharing only support UDP protocol
00.10.12.81	1. When the user can’t see "SIP Only Voice" function after 10.12.81 firmware version, please update the phonebook of EZJoin once then reboot the system to fix it.
00.10.12.61	1. When the user use the older than 10.12.61 firmware version, and upgrade to the newer firmware. There will happen the system volume be increased after the first time system reboot. Please modify the suitable volume level one-time based on your use environment.
00.10.10.09	1. In some circumstances, the frame rate can’t reach 30fps if users choose H.264 SVC for video conferencing connections.
00.10.10.01	None

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