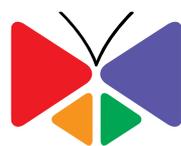# Firmware Release Notes

A1D-504-S1.12.04-AC

ACTi
Connecting Vision

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Contents

Firmware Version

Firmware Version: A1D-504-S1.12.04-AC
Release Date: 2025.01.15
Supported Models: B26, B412, B419, B911, B912, B915, B923, B928

New Features

1. (S1.11.07) Support H.265 video on camera's Web page for the graphic card that supports H.265.
2. (S1.10.05) Support ONVIF Profile M.
3. (S1.10.04) Support four individual audio files for event response.
4. (S1.09.08) Support 3D privacy masking on higher zoom ratio box or bullet models, such as B26 and B420.
5. (S1.09.08) Support TAICS Level 1 and 2.
6. (S1.09.08) Add HTTPS option to support TLS authentication in event http servers.
7. (S1.07.07) Add "Format Storage Media" event source for local storage event.
8. (S1.07.07) Add "FTP over SSH" on FTP server configuration page to support SFTP client function.
9. (S1.07.07) Add user access level options on User Account page to sync ONVIF three user levels (Administrator, Operator, User).
10. (S1.06.19) Support TAICS security and provide Idle timeout setting in System Security Settings page to auto logout.
11. (S1.06.19) Add System Log page and support to read, remove and select various events into Log.
12. (S1.06.19) Support HTML5 for Cross-Browser compatibility such as Google Chrome, Microsoft Edge and Apple Safari.
13. (S1.06.19) Add "Loss video streams" for TCP/RTP connections in event handling.
14. (S1.06.19) Add "System Log Buffer Overrun" and "Remove System Log" for system log events.
15. (S1.06.19) Add "Login Failure", "Login Success" and "Block an Account" for login events.
16. (S1.06.19) Add "Access storage media" for storage events.
17. (S1.06.19) Support Enable/Disable Control Server, Streaming Server and RTSP Server ports

18. (S1.05.01) Support ONVIF Profile T, including Secure Streaming, Motion Detection Configurations and OSD Configurations.
19. (S1.05.01) Support auto-flip function on mini PTZ cameras.
20. (S1.04.09) Add tamper configurations to adjust the sensitivity of tamper detection.
21. (S1.04.09) Add the option to enable or disable HTTP server service for camera's web page.
22. (S1.03.06) Support ONVIF Profile Q and pass the ONVIF Device Test Tool v19.06.
23. (S1.03.06) The login account will no longer have the default password, and the camera will require a user to set a new password before access the camera or connecting it to any NVR servers for the first time.
24. (S1.03.06) Add "Show Password" function on the account setup page.
25. (S1.02.56) Support H.265 on ONVIF integration
26. (S1.02.56) Support four regions privacy mask for camera with fixed or vari-focal lens
27. (S1.02.56) Support Image Rotation (90, 270, disable)
28. (S1.02.56) Added "Stable Time Interval" setting in Digital Input of Event Configuration to make the camera to send the DI trigger event when the DI state of the camera is changed to active state and stays active state for the "Stable Time Interval" time.
29. (S1.02.56) Added runtime DI status on web configurator and by URL command.
30. (S1.02.56) Added "Repeat Time Interval" setting for digital input, Fail to Write Storage, Remove Storage Media and schedule events to send the triggered events by the repeat time.
31. (S1.02.56) Support Tampering detection
32. (S1.02.56) Supported new models: B42, B43, B419, B420, B421, B612, B89, B911, B912, B913, B915, B922, B923, B928, B943, E79, E912, E914, Q251
33. (S1.01.30) Supported new models: B26, B412
34. (S1.01.30) Support H.265 Main profile
35. (S1.01.30) Support WDR
36. (S1.01.30) Support defogging function
37. (S1.01.30) Support "Auto Firmware Upgrade" function, camera can be upgraded firmware from local computer or from ACTi download center through internet service provider.
38. (S1.01.30) Supported switching color or monochrome video of camera by URL command "IMAGE_COLOR_MODE".

39. (S1.01.30) Support GPS manual setting
40. (S1.01.30) Support ACTi DDNS
41. (S1.01.30) Support HTTPS streaming
42. (S1.01.30) Support SMTP, FTP protocol
43. (S1.01.30) Support IEEE 802.1x EAP Protocol V3
44. (S1.01.30) Support ONVIF Profile S and Profile G
45. (S1.01.30) Support Text Overlay
46. (S1.01.30) Supported motion regions up to 10 (9 polygon regions or 1 excluded region)
47. (S1.01.30) Support shock detection
48. (S1.01.30) Support MicroSDHC and MicroSDXC local storage function
49. (S1.01.30) Support event handler function
50. (S1.01.30) Support event response to play the audio file. The format of audio file is .WAV file with PCM, 16-bit, 8KHz sampling rate, and the maximum file size is 256 KB.
51. (S1.01.30) Support reliable streaming for uploading video and audio to NVR server in event handler function. The function is available on the camera with local storage function and MicroSD card is required.
52. (S1.01.00) Supported new models: E710, E911

Enhancements

1. (S1.12.04) Allow no username/password challenge in auto authentication detection mode.
2. (S1.12.04) Updated the default self-signed HTTPS certificate to use a 2048-bit key and TLS 1.2.
3. (S1.11.07) Support Firefox web browser.
4. (S1.11.07) Add HTTPS CSR (Certificate Signing Request) PROP file export functionality in the HTTP/HTTPS Web UI.
5. (S1.10.05) The maximum length of SMTP server is extended from 32 to 64.
6. (S1.10.05) Support the SMTP settings without login username and password if the SMTP server does not require authentication.
7. (S1.10.04) Pass ONVIF Device Test Tool v23.06 rev.96.
8. (S1.10.04) Support mTLS in HTTPS server services and event HTTPS connections.
9. (S1.09.08) Support IPv6 Addressing
10. (S1.09.08) Support IPv6 on ONVIF
11. (S1.09.08) Support fisheye software dewarping functions.

12. (S1.07.07) Change the length of the keys on https self-signed certificate to 2048 bits.

13. (S1.07.07) Support TAICS Level 1 Version 2

14. (S1.07.07) Add DISK_PARK_STATE URL in system CGI to park the local storage media, to set it as event response when camera is going to power off or reboot to protect MicroSD.

15. (S1.06.19) 63 speed levels in pan and tilt are implemented on PTZ control web page

16. (S1.06.19) Support IVS_ALGORITHM_INFO URL in encoder CGI to get the information of supported specific IVS analysis algorithm from the camera.

17. (S1.05.01) Update ActiveX control as higher version

18. (S1.04.09) Security enhancement on URL commands

19. (S1.04.09) The password length requirement for user's account is 6 to 63 characters for password guessing and security enhancement.

20. (S1.04.09) Compatible with IP Utility v5.0.0.4 and newer versions, to be able to set root password and change network configurations without root login for conveniently installing IP camera in the networking environment without DHCP server.

21. (S1.04.09) Support upcenter and downcenter positions on OSD.

22. (S1.03.06) HTTPS is enabled by default, and supports built-in default self-signed certificate and private key.

23. (S1.04.09) Support move limit functions to all speed dome and mini PTZ cameras

24. (S1.03.06) Extended Host URL length from 63 to 127 characters.

25. (S1.02.56) Add minimum object size setting on text field in motion detection WEB page.

Issue Solved

1. (S1.12.04) Resolved an issue where the Event SMTP Server Configuration page was not cleared when applying the SMTP password hint page.

2. (S1.12.04) Fixed an issue where audio file responses could not be removed in the Event List Setup page.

3. (S1.12.04) Fixed the Digital Outputs (DO) was cleared by inactive event lists which DOs were set to their response settings.

4. (S1.12.04) Corrected the ID display when triggering tamper notifications.

5. (S1.11.07) Resolved WS-Security authentication failure caused by a nonce

timing check error when the nonce table is full.

6. (S1.11.07) MJPEG recording functionality in ONVIF.

7. (S1.10.04) Fix the audio files were not removed after factory default.

8. (S1.10.04) Fix the forbidden returns to HTTP request in some cases.

9. (S1.10.04) Fix the offset is not synced correctly for daylight saving on some models with specific firmware after device booting.

10. (S1.08.05) Update HTTP/HTTPS services mechanism to avoid blocking by abnormal https transactions or incorrect encrypted files.

11. (S1.08.03) Fix the web access failure due to RTSP socket connection issue.

12. (S1.08.03) Fix the memory leakage issue after changing OSD settings.

13. (S1.08.03) Fix the web page issue for 802.1x certificate file upload.

14. (S1.08.03) Fix the motion detection alarm abnormally when object size is set too small to be incompatible with larger ROI.

15. (S1.07.07) update ActiveX in WEB UI to fix no video through GET_STREAM when the encoder is H.265 and RTP B2 is disabled

16. (S1.06.19) Fix the speed and direction cannot be changed in auto-flip on mini PTZ models.

17. (S1.06.19) Fix the audio issue in RTSP signaling when playing from local storage on the camera via Mobile Client app.

18. (S1.05.01) Motion detection fails when some of parameters were changed.

19. (S1.04.09) Fix the user level accounts will be reset when the camera is rebooted.

20. (S1.04.09) Fix the ONVIF and third-party VMS integration issues.

Removed

1. (S1.12.04) Removed GB28181 functions.

2. (S1.07.07) Remove ONVIF Profile Q because ONVIF already announced that it will end its support for Profile Q and will be deprecated on March 31, 2022.

Supported Languages

Czech, Dutch, English, French, Hebrew, Hungarian, Italian, Japanese, Korean, Mongolian, Polish, Romanian, Russian, Spanish, Simplified Chinese and Traditional Chinese.

Supported Video Management System

For supported ACTi VMS list, please refer to
http://www.acti.com/UnifiedSolution
For supported Third-party Software Integration list, please refer to
http://www.acti.com/3rdpartysoftware

Remark

1. When public SMTP server listed in SMTP Server Configuration page is used, some settings will be fixed and not editable except email account and password.
2. ANS (ACTi Notification Services) is ACTi's implementation of Amazon SNS through the usage of ACTi's server domain and ACTi's member center accounts. Please contact us for more information regarding Notification Services.
3. The camera will stop playing audio packets from network when the event response is working on playing the audio file.
4. By following the TAICS specification, some settings are changed as default settings after switching Account Security Level to TAICS mode.
   - HTTP service is disabled
   - Firmware upgrade from download center is not available
   - Not support Anonymous login
   - Search Server Port2 is disabled
   - Hide FTP server setting in the event server setup page
   - Hide "snapshot to FTP" and "video to FTP and NVR" in image upload setup page
5. H.265 video decoding is not supported across browsers in Google Chrome, Microsoft Edge and Apple Safari on for the graphic card that did not support H.265.
6. Zoom Box and Bullet, such as B412 and B419, will not support Pixel to PTZ function by a rectangle window on the live view.

7. Speed dome cameras, such as B913, B915, B923 and B928, will not support 3D privacy masking.

Download and Documentation

S1.12.04 is official released, the Firmware User Manual and Release Notes are available for download on ACTi.

You may also visit ACTi Download Center for updates and documents
http://www.acti.com/downloadcenter

Support

If you have any question or need additional assistance, please feel free to contact our engineers via our **Customer Help Desk** platform http://www.acti.com/CHD