Firmware Release Notes

A1D-501-V7.12.19-AC

ACTi
Connecting Vision

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Contents

Firmware Version

Firmware Version: A1D-501-V7.12.19-AC
Release Date: 2023.11.17

New Features

1. (v7.12.19) Support four individual audio files for event response.
2. (v7.11.18) Add "FTP over SSH" on FTP server configuration page to support SFTP client function.
3. (v7.11.18) Add user access level options on User Account page to sync ONVIF three user levels (Administrator, Operator, User).
4. (v7.11.18) Support TAICS security level and provide Idle timeout setting in System Security Settings page to auto logout.
5. (v7.11.18) Add System Log page and support to read, remove and select various events into Log.
6. (v7.11.18) Support multiple web browsers, such as Google Chrome, Microsoft Edge and Apple Safari.
7. (v7.11.18) Add "Loss video streams" for TCP/RTP connections in event handling.
8. (v7.11.18) Add "System Log Buffer Overrun" and "Remove System Log" for system log events.
9. (v7.11.18) Add "Login Failure", "Login Success" and "Block an Account" for login events.
10. (v7.11.18) Add "Format Storage Media" and "Format Storage Media" for local storage events.
11. (v7.11.18) Support Enable/Disable Control Server, Streaming Server and RTSP Server ports
12. (v7.10.09) Add "Reverse Direction" in "Move Limit" setting to limit the Pan and Tilt movement of PTZ camera will not include the area between two limit points set on web configurator.
13. (v7.08.03) Support ONVIF profile Q and profile T
14. (v7.08.03) Add tamper configurations to adjust the sensitivity of tamper detection.
15. (v7.08.03) Show the detected objects with bounding boxes on object tracking in web UI
16. (v7.08.03) Show the red border frame when IVS events inside this ROI are

detected.

17. (v7.08.03) Add the option to enable or disable HTTP server service for camera's web page.

18. (v7.08.03) 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.

19. (v7.07.04) Add "Show Password" function on the account setup page.

20. (v7.06.11) Supported new models: E915

21. (v7.06.11) Support "Camera Firmware Auto Upgrade" function of standalone NVR (ENR/MNR series).

22. (v7.05.50) Supported EAP V3 protocol for IEEE 802.1X

23. (v7.05.50) Supported RTP over HTTPS streaming

24. (v7.05.50) Supported HTTPS streaming with maximum up to 10 concurrent streams

25. (v7.05.50) 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.

26. (v7.05.50) Added runtime DI status on web configurator and by URL command.

27. (v7.05.50) 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.

28. (v7.04.16) Supported 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.

29. (v7.04.16) Supported 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.

30. (v7.04.16) Added Mongolian language

31. (v7.04.16) Supported new models: I99, I915

32. (v7.03.20) Supported new models:

E series:

E39

I series:

I29, I42

33. (v7.03.20) Supported Audio Out function via ONVIF

34. (v7.03.20) Supported IEEE 802.1x with Cisco ISE

35. (v7.03.20) Supported push Video/Audio to NVR 3 Corporate server with v3.0.13.27 and later versions.

36. (v7.03.20) Supported public SMTP servers

smtp.gmail.com,

smtp.mail.yahoo.com

smtp.live.com

smtp.yandex.com

smtp-mail.outlook.com

smtp.gmx.com

smtp.zoho.com

37. (v7.03.20) Supported IVS event search in file management on local storage

38. (v7.03.20) PTZ control panel on live view page can be hidden in Web Configurator by URL command "PTZ_CTRL_PANEL" for users login the camera with User level

39. (v7.03.20) Supported URL command "GET_IVS_MSG" to get IVS message from camera.

40. (v7.02.15) Supported new models:

B series:

B945, B949

Q series:

Q61, Q81, Q92

41. (v7.02.15) Supported GB28181 protocol

42. (v7.02.15) Supported OSG (On Screen Graphics) by URL command

43. (v7.02.15) Supported electronic day and night function for E936, E936M and Q91.

44. (v7.02.15) Added Face Detection

45. (v7.02.15) Supported Notification Server in Event server and the available event triggers including Digital input, Motion detection, Sound detection, Shock Detection, Tamer, Line Crossing, Enter Area, Missing Object, Unattended Object and Loitering.

46. (v7.02.15) Supported up to 63 speed levels on PTZ models to make pan and tilt speed smoothly.

47. (v7.01.20) Supported new models:

E series:

E933, E933M

B series:

B63, B83, B415, B416, B916, B917

I series:

I48

Q series:

Q91

48. (v7.01.20) Supported "Auto Firmware Upgrade" function, camera can be upgraded firmware from local computer or from ACTi download center through internet service provider.

49. (v7.01.20) Supported ONVIF Profile S and Profile G

50. (v7.01.20) Supported 4 privacy masks for fixed-focal and vari-focal lens cameras

51. (v7.01.20) Supported 20 3D privacy masking on Zoom, PTZ and speed dome cameras

52. (v7.01.20) Supported mosaic image for block size of 32x32 in privacy masking

53. (v7.01.20) Added Image Quality Priority, Frame Rate Priority and Expert Settings for Auto exposure control function

54. (v7.01.20) Supported MicroSDHC and MicroSDXC local storage function

55. (v7.01.20) Supported upload video to local storage by Digital Input, Motion and Sound detection events triggered.

56. (v7.01.20) Supported Video Analytics including Line Crossing, Enter Area, Missing Object, Unattended Object and Loitering

57. (v7.01.20) Supported Defogging

58. (v7.00.44) Supported Triple video streams

59. (v7.00.44) Supported High Frame rate mode for 60 fps at 720p and 1080p

60. (v7.00.44) Supported Motion regions up to 10 (9 polygon regions + 1 excluded region)

61. (v7.00.44) Supported Image Rotation 90 and 270 degree

62. (v7.00.44) Supported Digital Image Stabilizer

63. (v7.00.44) Supported Video Analytics

Tampering

Shock detection - Shocking is available with camera built-in G-sensor (e.g. B415, B416, B916, B917, B934, B945, B949, I48, I97 and I98

PTZ Auto Tracking – for speed dome I97 and I98

64. (v7.00.44) Supported new models:

E series:

E217, E219, E222, E38, E417, E78, E819, E936, E936M

B series:

B214, B215

I series:

I28, I97, I98

Enhancements

1. (v7.12.19) Add https configurations in the event http server.
2. (v7.12.19) Pass ONVIF Device Test Tool v23.06 rev.96.
3. (v7.12.19) Support mTLS in HTTPS server services and event HTTPS connections.
4. (v7.12.19) Support TAICS Level 1 Version 2.
5. (v7.12.19) Support 01~0.9 GOP length
6. (v7.11.18) Change the length of the keys on https self-signed certificate to 2048 bits.
7. (v7.11.18) Changing the MTU size of DHCP packet to increase the compatibility for DHCP servers.
8. (v7.11.18) Improved the auto focus design for day/night changing and temperature changing conditions.
9. (v7.10.10) Improved the handling of log messages for troubleshooting.
10. (v7.09.06) Changing the the OSD font scale to display larger font size.
11. (v7.08.03) Security enhancement on URL commands
12. (v7.08.03) The password length requirement for user's account is 6 to 63 characters for password guessing and security enhancement.
13. (v7.08.03) Using self-signed certificate as default for HTTPs.
14. (v7.08.03) Update HTTP certificate management page to add "Install Signed Certificate" and "Create Self-Signed Certificate" functions for HTTPS.
15. (v7.08.03) 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.
16. (v7.08.03) Support upcenter and downcenter positions on OSD.
17. (v7.07.04) HTTPS is enabled by default, and supports built-in default self-signed certificate and private key.
18. (v7.07.04) Extended Host URL length from 63 to 127 characters.
19. (v7.06.12) Firmware upgrade protection enhancement
20. (v7.06.11) Add minimum object size setting on text field in motion detection setting.
21. (v7.05.50) Added reboot url command
22. (v7.05.50) Supported switching color or monochrome video of camera by URL command "IMAGE_COLOR_MODE".

23. (v7.05.50) ICMP/TCP timestamp response, UPnP, Bonjour are disabled by default for security reasons.

24. (v7.05.50) IGMP version is set to version 2

25. (v7.05.50) Updated the 63 speed levels in auto speed profile table and apply to speed mapping in web UI, and also change the moving speed of pan and tilt to constant speed.

26. (v7.05.50) Supported electronic shutter speed to 1/64000 sec.

27. (v7.04.16) Added "Default", "Fast" and "Slow" speed options in Auto Pan/Tilt speed function for PTZ and speed dome cameras.

28. (v7.03.20) Added Face Detection for ANS notification in event handler

29. (v7.03.20) The Auto Tracking function is moved to intelligent video page.

30. (v7.02.15) To change the slowest auto shutter speed from 1/5 to 1/15

31. (v7.02.15) To enhance the saturation for image quality

32. (v7.02.15) To separate mirror and flip control for non-PTZ models.

33. (v7.02.15) To improve the missing object, unattended object and loitering algorithms

34. (v7.02.15) Pan and Tilt control improvement

35. (v7.00.44) Supported Video Max Bit Rate setting in Variable Bit Rate (VBR) mode for H.264 compression

36. (v7.00.44) The default video bit rate setting is VBR.

37. (v7.00.44) OSD window could be turned off on video stream 2 and 3 when OSD window is enabled on video stream 1.

Issue Solved

1. (v7.12.19) Fix the offset is not synced correctly for daylight saving on some models with specific firmware after device booting.

2. (v7.12.19) Fix the forbidden returns to HTTP request in some cases.

3. (v7.11.18) Update HTTP/HTTPS services mechanism to avoid blocking by abnormal https transactions or incorrect encrypted files.

4. (v7.11.18) Fix the issue that streaming fails with RTP over HTTP(S) by ONVIF protocol.

5. (v7.11.18) The user level accounts will be reset when the camera is rebooted

6. (v7.11.18) Fix the web access failure due to RTSP socket connection issue.

7. (v7.11.18) Update ActiveX in WEB UI to fix no video through GET_STREAM when the encoder is H.265 and RTP B2 is disabled

8. (v7.11.18) Fix the incorrect SetPreset command for ONVIF integration.

9. (v7.10.09) Fix the issue for renewing the IP address when DHCP lease time is expired.

10. (v7.10.08) Fix the compatibility issue for non-WebSocket network packets and WebSocket requests.

11. (v7.10.08) Fixed out of focus when the camera changes day/night state.

12. (v7.09.06) Fixed choppy or dropped streaming video connections with ZNR series video servers.

13. (v7.06.12) Missing to set target preset index before executing PTZ Goto Preset command by using RS485 PTZ.

14. (v7.05.51) Removed unused URL commands

15. (v7.05.50) Improved the network session handling function to avoid showing "Service not available" on the WEB configurator occasionally.

16. (v7.05.50) Fixed the PTZ function related issues on B934 and B917 (e.g. go home position failed when the move limit is set; speed ratio did not take effect immediately etc.)

17. (v7.05.50) PTZ auto tracking function will cause camera work unstable.

18. (v7.05.50) Manual trigger button on live view page is disappeared.

19. (v7.05.50) No DI3 and DI4 events sending if camera is using ONVIF.

20. (v7.05.50) Some abnormal results when the rotation function is enabled

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. The integration testing for GB28181 function is recommended.
    (GB28181 function is verified by test tool
    "mss-1.4.0.FINAL-apache-tomcat-6.0.29")

2. The OSG function is available in video stream 1 only and supports BMP 8-bit format with maximum image size 480 x 360.

3. Manual shutter and Slowest auto shutter speed will not have 1/5 option in some speed dome and PTZ camera models, such as I97 and I98

4. Face counting function is supported on Q61 and Q81 with v7.02.15, please wait for Reporting Server new version release.

5. Face Detection function is not supported on Q91 and Q92 because of camera mounting installation reason.

6. People Counting and Face Counting cannot be used at the same time on Q61 and Q81, please choose an applicable option for actual environment.

7. 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.

8. 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.

9. The camera will stop playing audio packets from network when the event response is working on playing the audio file.

10. The camera can support TLS 1.2 and SSLv3 on HTTPS protocol, for security concern, the SSLv3 is recommended to be disabled.

11. The camera will have ability to support ACTi SMTP server by project request, please contact us for more details.

12. The plugin controls had been removed from some web browsers such as Google Chrome. Therefore, the video stream and configurations for video display will be not available.

13. Please ensure that the firewall allows TCP communication through the default http service port for troubleshooting.

14. The camera firmware can support camera firmware upgrading through ENR/MNR series with firmware V5.03 or newer versions.

15. 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

Download and Documentation

V7.12.19 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

www.acti.com