ACTi D/E/B/I series

Firmware Release Notes

Version 6.06.16

2014/03/05

ACTi
Connecting Vision

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Contents

Firmware Version

Firmware Version: A1D-500-V6.06.16-AC

Release Date: 2014.03.05

New Features

1. (v6.06.16) ONVIF Profile S compliance
2. (v6.06.16) Added video resolution 1440x1080 and 1280x960 options for video stream1 on fisheye cameras.
3. (v6.06.16) Supported IR Exposure Compensation setting for all camera with IR LED. (Default is enabled)
4. (v6.06.16) Supported Scan function and Return to Auto Scan setting for PTZ/Speed dome camera
5. (v6.06.16) Browser auto detection for plug-in application (Safari with QuickTime installed, and other browsers with VLC installed)
6. (v6.06.16) Supported new models
   D series:
      D41A, D42A, D61A, D62A, D64A, D65A
   E series:
      E41B, E42B, E43B, E44A, E45, E45A, E46A, E47, E61A, E62A, E63A, E64A, E65A, E66A, E67A, E68, E69, E85, E85A
   B series:
      B41, B44, B45, B47
7. (v6.05.23) Supported local storage function with MicroSDXC
8. (v6.05.23) Supported Microsoft Internet Explorer 11.0
9. (v6.05.23) Supported 720p with 60 fps High frame rate mode for 1.3MP camera models
10. (v6.05.23) Supported Saturation, Edge Enhancement and 2D/3D DNR configuration for I series cameras
11. (v6.05.23) Supported build-in Defogging for I series cameras
12. (v6.05.23) Supported Image Stabilization, dynamic Privacy Mask and Digital Zoom for I series PTZ/Speed dome cameras
13. (v6.05.23) Supported IR LED control for camera model with Adaptive IR-LED specification
14. (v6.05.23) Changed plug-in application from VLC to QuickTime for non-IE browser

15. (v6.05.23) Supported 10 Megapixel resolution

16. (v6.05.23) Supported new models

    D series:

      D21FA, D21VA, D22FA, D22VA, D71A, D72A, D81A, D82A

    E series:

      E21FA, E21VA, E22FA, E22VA, E23A, E24A, E25A, E270, E271, E37,
      E56, E57, E58, E59, E610, E71A, E72A, E73A, E74A, E75, E76, E77,
      E81A, E82A, E83A, E84A, E86A, E88, E89, E97

    B series:

      B51, B52, B53, B55, B56, B61, B64, B65, B67, B81, B84, B85, B87,
      B94, B95, B96, B97

    I series:

      I91, I92, I93, I94, I95, I96

17. (v6.04.15) Supported local storage function with MicroSDHC

18. (v6.04.15) Supported Microsoft Internet Explorer 10.0

19. (v6.04.15) Supported different H.264 profile switching. User can configure the H.264 Baseline/ Main/ High profile on camera's Web Configurator.

20. (v6.04.15) Supported software dewarping function in ActiveX with different view modes (Fisheye View, Dewarped View, Panorama Wall and Celling Mount) for fisheye cameras

21. (v6.04.15) Supported new models

    D series:

    D21F, D21V, D22F, D22V, D42, D91, D92

    E series:

    E21F, E21V, E22F, E22V, E93, E94, E95, E96

22. (v6.03.17) Supported new models

    D series:

    D12, D21, D22, D31, D32, D41, D54, D55, D61, D62, D64, D65, D71, D72, D81, D82

    E series:

    E21, E22, E23, E24, E25, E34, E41A, E42A, E43A, E44, E45, E46, E61, E62, E63, E64, E65, E66, E67, E71, E72, E73, E74, E81, E82, E83, E84, E85, E86, E91, E92

23. (v6.03.17) Added 1280x720 video resolution for 1.3M camera models (e.g. D61, E66 and E25)

24. (v6.02.03) Compliant with ONVIF Core Specification v2.2

25. (v6.02.03) Supported Anonymous login for live view

26. (v6.02.03) Supported WDR function on E series products

Enhancements

1. (v6.06.16) Audio quality improvement
2. (v6.06.16) Maximum Zoom Ratio setting for optical zoom control
3. (v6.06.16) Added "IDLE position" in touring state for PTZ camera
4. (v6.06.16) Faster response of event to snapshot and concurrent snapshot requests
5. (v6.06.16) Supported PT control in Web configuration for camera with RS-485/422 serial port
6. (v6.06.16) Supported Stream 2 profile and change resolution from maximum resolution to 1080p or 720p of Stream 1 profile for ONVIF integration
7. (v6.06.16) Added video resolution 3648x2160 for 10MP non-fisheye camera
8. (v6.05.23) Increased the PTZ preset points up to 256
9. (v6.05.23) Supported OPTIONS command for keep-alive with RTSP connection
10. (v6.05.23) Enhanced the image quality with ISP firmware improvement
11. (v6.04.15) Enhanced the sensitivity of motion detection
12. (v6.04.15) Reliability enhancement
13. (v6.04.15) Supported the QVGA(320x240) resolution for video stream 2 only
14. (v6.04.15) H.264 compatibility enhancement and set proper H.264 level with different video resolution
15. (v6.03.17) Supported variable GOP in Constant Bit Rate mode with shutter speed changes
16. (v6.03.17) Improved the audio quality
17. (v6.03.17) Improved the sensitivity of motion detection
18. (v6.03.17) Improved video bite rate control on Motion JPEG and H264 Variable Bit Rate mode
19. (v6.02.03) Increase the maximum Pre-Buffer Time to 10 seconds for upload video in event handler function.

Issue Solved

1. (v6.06.16) No video frame when changing shutter speed or day/night
2. (v6.06.16) Touring function is unstable for I series PTZ camera

3. (v6.05.23) Showed Mouse PT direction icon on Zoom only camera

4. (v6.05.23) Snapshot function cannot work by user account level

5. (v6.05.23) Event time calculation issue with Event Handler function

6. (v6.04.15) ONVIF compatibility issue (e.g. PTZ control, video stream 2 capability setting …etc.)

7. (v6.03.17) Device will not synchronize its time with NTP server automatically when camera is in static IP address.

8. (v6.03.17) Cannot upload snapshot to Local Storage and FTP at same time

9. (v6.03.17) The output snapshot file in Live View is broken when the resolution is 2048x1536 or 1280x720

10. (v6.03.17) IEEE 802.1x may not work normally

11. (v6.03.17) Stability issue with local storage function

12. (v6.03.17) Integration issue with ONVIF function

13. (v6.03.17) The snapshot function will show error message sometimes.

14. (v6.02.03) Fixing Audio noise problem by using "GET_STREAM" HTTP command.

Supported Languages

Czech, Dutch, English, French, Hebrew, Hungarian, Italian, Japanese, 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. If the earlier firmware versions do not support this new model, please do not downgrade FW to earlier version, otherwise you need to upgrade new firmware again.

www.acti.com

2. Please keep enable "RTP B2 Frame" on camera to prevent compatibility problem with software NVR or standalone NVR.

3. Please check the motion region setting and privacy masking window after changing video resolution.

4. After remove HTTPS certificate files, the WEB UI has to redirect to the login page with HTTP protocol.

5. Please save and reboot the device after remove HTTPS certificate files.

6. Not support Motion detection regions and Privacy mask regions in non-IE browser.

7. Not support MPEG4 CGI, this CGI is replaced with Encoder CGI.

8. When OSG function is activated, the snapshot function will be only available from channel 1.

9. The "Ready for service" and "Service is not available" had been renamed to "Device boots successfully" and "Reboot device" in Event triggered list.

10. H.264 level 5 is for 3M and higher video resolution, level 3 is for VGA and lower and level 4 is for 720p and 1080p.

11. ONVIF Profile S will be supported in V6.06 version

12. ONVIF function is disabled by default. Please enable the ONVIF in "Network" page from Web Configurator or by the following URL command for ONVIF testing.
   http://ip:port/cgi-bin/cmd/system?ONVIF_STATE=1 or
   http://ip:port/cgi-bin/system?USER=admin&PWD=123456&ONVIF_STATE=1
   (USER is camera's root account name, PWD is password.)

13. FPS number of model I92/I94/I96 is 27 fps at 1080p resolution.

14. For High frame rate mode, image sensor output will up to 60FPS at 1280 x 720 resolution if the shutter speed is 1/100 sec or higher in the 50Hz power line frequency environment.

15. For plug-in application in browser, it is recommended to install the browser and then install the plug-in application.

16. QuickTime plug-in application is not available for 5M and above resolution with H.264 Level 5.1.

17. PTZ control panel in web UI can configure up to 32 preset points and 32 preset tour points in a tour group. You can configure the additional preset points up to 256 by using PTZ URL command.

18. When video resolution is 3648x2160, camera might not be able to switch back to day mode.

Upgrade

To achieve the best possible functionality and video quality of the camera, performing both camera firmware and the ISP firmware upgrade is recommended.

You can use the IP Utility 4.3.03 or later version to upgrade both camera firmware and ISP conveniently and can upgrade multiple cameras at the same time using IP Utility.

Firmware upgrade notice

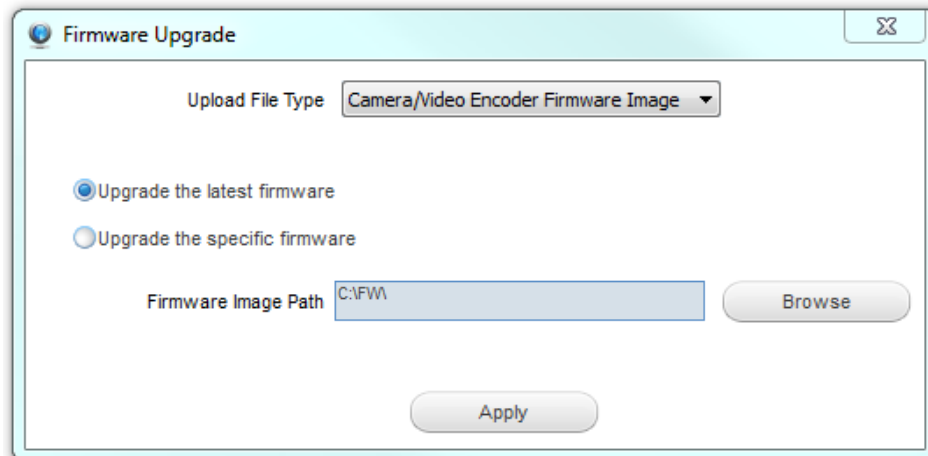| Firmware Version Before Upgrading	Firmware upgrade rule	Upgrade by
6.01.03 or earlier	Please upgrade to v6.01.06 first, then upgrade to v6.06.16 directly	1.Camera Web Configurator via Microsoft Internet Explorer 8.0 or newer 2.IP Utility v4.3
6.01.06 or newer	Please upgrade to v6.06.16 directly	

Camera Firmware Upgrade Procedure

1. Please unzip the V6.06.16.zip, it included V6.06.16 camera firmware Image and ISP firmware image for I series PTZ camera.

2. Run IP Utility.
   Click here to download latest IP utility

3. Please select the camera models you want to upgrade in the model list that IP Utility has found. At this point you can see directly within IP Utility which D/E/B/I models do not have the latest camera firmware yet.

4. Input camera's account, password and HTTP port number value and click "Firmware Upgrade" on Configuration tool bar.

The following pop-up window will appear.

5. Please save the downloaded firmware files and keep their filenames unchanged.(It is suggested to place the firmware files in the same folder with IP Utility for easy management)

6. Select "Camera/Video Encoder Firmware Image" and "Upgrade the latest firmware" to have IP Utility automatically decide the firmware file <A1D-500-V6.06.16-AC.upg> from the location you give. Please click "Browse" button to choose the specific "Firmware Image Path" folder location, and click "Apply".

    The device needs 2 minutes for FW upgrading, and it will reboot automatically and show return message "Success" after the image upload completes.

7. Then user can check FW Version in IP Utility or login to camera's Web Configurator by typing the camera's IP address to the IE browser's address bar to check if the new camera's firmware has been correctly loaded into camera.
    "Setup"→"System" → "System Info"
    If you see the new firmware version there, then everything is correct.

New ISP firmware Version (I9x)

I Series PTZ Models		Camera Firmware	ISP			IP Utility
			ISP Firmware	ISP Resource	ISP Hardware	
I91-I96	Version	V6.06.16	**V1.01.07**	V1.01.07	V0.00.16	V4.3.03 and later
	Filename	A1D-500-V6.06.16-AC	ISP-U-0521-V1.01.07.bin			

For other models, there is no requirement for ISP firmware upgrading.

ISP Firmware Upgrade Procedure (I9x)

Only I91-I96 models have ISP firmware can be upgraded. To achieve the best possible functionality and video quality of the camera, ISP firmware should be upgraded.
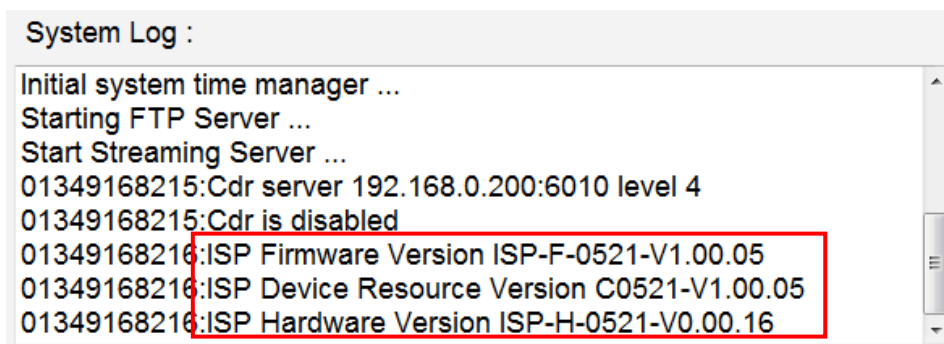
Before you start to upgrade the ISP, please check the camera already upgrade to camera latest version **V6.06.16**

1. First, please make sure whether the camera you are trying to upgrade already has the latest ISP firmware or not. To confirm that, please login to camera's Web Configurator by typing the camera's IP address to the IE browser's address bar and click following buttons then:
"Setup"→"System" → "System Info" → "System Log"

You will see ISP items there – ISP Firmware Version, ISP Device Resource Version and ISP Hardware.
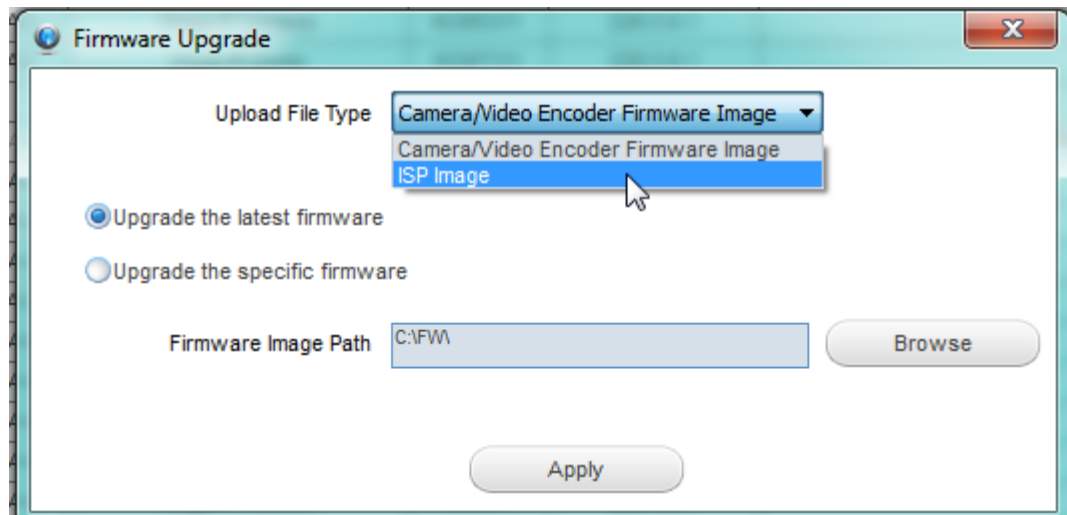Example: I94

2. Please save the downloaded firmware files and keep their filenames unchanged.(It is suggested to place the firmware files in the same folder with IP Utility for easy management)

3. Run IP Utility v4.3.03 or later version.

4. Please select the camera models you want to upgrade in the model list that IP Utility has found.

5. Input camera's account, password and http port number value and click "Firmware Upgrade" on Configuration tool bar.
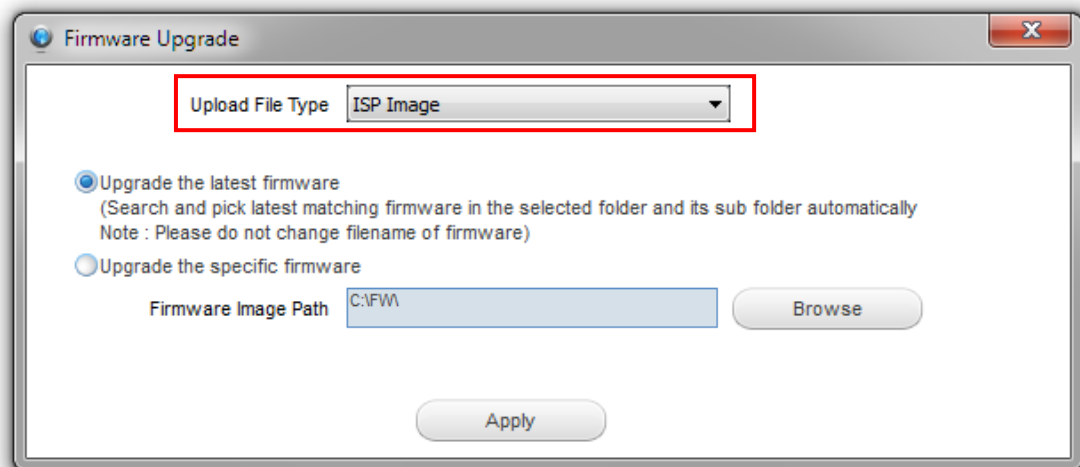
Account	admin	Password	123456	Http Port	80

Refresh	Device Settings	Change Network Address	Firmware Upgrade	Config. Backup	Config. Restore	Reset	Save&Reboot

The following pop-up window will appear.

6. Please select "Upgrade the latest firmware" to have IP Utility automatically decide the firmware file from the location you give.

The device needs 7 minutes for ISP upgrading, and it will reboot automatically and show return message "Success" after the image upload completes.

7. After successful upgrade the ISP firmware, please login to camera's Web Configurator by typing the camera's IP address to the IE browser's address bar to check if the new camera's ISP firmware has been correctly loaded into camera.
   "Setup"→"System" → "System Info" → "System Log"

   If you see the new ISP Firmware version there, then everything is correct.

Download and Documentation

V6.06.16 is official released, the Firmware User Manual and Release Notes are available for download on ACTi.

For camera related utilities, please check the "ACTi Utility"
http://www.acti.com/Utility

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