

H5 Network PTZ Dome Camera Firmware

Version: V5.5.40 Release Note

(2020-06-16)

1. Firmware Version Information

1.1 Firmware Basic Information

PTZ Camera:

IPD_H5_EN_XXX_5.5.40_200518.zip

IPDHG_H5_L1_EN_XXX_5.5.40_200518.zip

Smart-Linkage PTZ Camera:

IPDZLF_H5_EN_XXX_5.5.40_200520.zip

2. Related Resource Versions

2.1 Built-in Resource Versions

- (1) SDK version: HCNetSDKV6.1.4.20_build20200320
- (2) iVMS 4200 client: V3.2.2.5Build20200418
- (3) Hybrid Target Algorithm lib(HMS): V4.3.0build200226
- (4) Face Capture Algorithm lib: V4.3.1build190123
- (5) Plugin: V4.0.1.0 build 200512

2.2 Protocol Versions

- (1) Onvif version: V17.12 test tool: 1806SR1
- (2) ISAPI version: 2.4
- (3) Ehome version: V2.0(2.1-3.0)\V4.0
- (4) CGI version: V2.0
- (5) Hik-Connect version: V1.7

2.3 Third-party Platform Software Versions

(1) Milestone software version (Milestone Corporate 2019 R3), Milestone driver version (Device Pack 10.6)

(2) Exacqvision software: 20.03.9.0

(3) Avigilon Control Center: v7.2.2.0

(4) Digifort Enterprise: 7210

2.4 Tested NVR

DS-7108NI-E1/8P/M	V3.4.97 build 191126
DS-7608NI-K1	V3.4.103 build 181226
DS-7108NI-Q1/8P/M	V3.4.107 build 191121
DS-7616NI-Q1	V3.4.111 build 200408
DS-7732NI-Q4/16P	V3.4.111 build 200408
DS-7616NI-Q2/16P	V3.4.111 build 200408
DS-7732NI-E4/16P	V3.4.103 build 181226
DS-8664NI-I8	V4.22.005 build 191208 V3.4.111 build 200507
DS-9664NI-M16	V4.1.66 build 200115
DS-96256NI-I24/H	V4.1.66 build 200103
DS-9664NI-I8	V4.22.000 build 190821
iDS-96128NXI-I16(B)	V4.1.74 build 200110
iDS-9632NXI-I8/16S(B)	V4.22.126 build 200508
iDS-9632NXI-I8/8F(B)	V4.22.126 build 200508
DS-7632NXI-I2/4S	V4.1.17 build 190911
DS-8664NI-I8	V4.22.000 build 190821

3. Version Main Updates(Compared with V5.5.24)

3.1 New Features

- New models are released.

iDS-2SK8144IXS-D/J(40X/2812)(Overseas STD)(T2)

- New functions:

[1] Object capture function:

The device supports the object capture, and can compare the face pictures in the face library. If the comparison is successful, the target is tracked.

[2] Advanced configuration of object capture

- a . Support object tracking and debugging mode. After opening, the preview screen will display trace debugging information, which is used for PK debugging
- b . Support the function of object tracking and capturing. The device will capture the tracking target when setting up the control tracking. If the object t reach the capture threshold, upload the tracking captured object
- c . Magnification control mode: support zoom based on target frame and tracking TZ relationship during control and tracking
- d . Tracking failure dwell time: after tracking failure, the device will stay for a period of time before returning to the initial detection location
- e . Long distance transmission interval of Tracking Alarm: the frequency of uploading GPS information when the device is tracking
- f . Tracking duration: the maximum time for the device to track the target, 0-300s configurable.

[4] Security requirements

- a. Support session number, session lock, session timeout settings
- b. Web components supports SSH and Bonjour configuration
- c. Reset password import and export key mode add error locking function
- d. Reset password import and export key mode add error locking function
- e. SSH supports sha256 digest algorithm
- f. Encrypted transmission required to reset password verification code
- g. No country field certificate removal restrictions.

[5] General functions

- a. Overseas equipment supports video expiration function
- b. New certificate management function
- c. New SRTP Preview
- d. New IP address filtering supports address segment filtering.

[6] Smart-Linkage PTZ Camera requirements

- a. Support gyroscope anti damage alarm function
- b. Support network break exception function detection and SNMP trap function description
- c. Add 1.5x gear for low illumination electronic shutter
- d. Support mosaic function
- e. Support turret camera-PTZ linkage tracking, take over tracking function
- f. Support turret camera-PTZ linkage tracking and capturing function
- g. Camera will add panoramic superposition tracking target frame when tracking targets
- h. Sound-light-warning supports user-defined upload voice, and supports the function of alarm input linkage Sound-light-warning alarm.

3.2 Optimize

- GPS function upgrade:
 - a. Support GPS calibration validation
 - b. GPS data will be deleted when default device, rather than restore device
- Object capture and multi-target capture function upgrade
 - a. Support beautify face and plate enhancement function
 - b. In video structuralization, multi-target capture supports target trajectory overlay in background image and preview image
- Support size filter for smart event
- People arming tracking zoom rate optimization: Support gyroscope calibration to fix the issue that device hanging out of alignment in gyroscope device.
- In smart mode, multi-channel device support smart post retrieval for each channel
- Update HMS4.3, resolve that capture dog by mistake and plate recognition with large pixels
- Image configuration:
 - a. Optimize Gain function: In manual exposure mode, remove Limit Gain
 - b. When call preset, scene parameter in front-end will change at the same time
 - c. Brightness control refinement
 - d. Day/Night mode switch sensitivity refinement, support 7 level
- Alarm protocol upgrade, support multi-time zone scheme to resolve issue

caused by different time zone

- Video & Audio:
 - a. Remove 44.1 KHZ in audio coded sampling rate
 - b. Import CVBR encode
- Network:
 - a. Support multicast configuration interface
 - b. Support LAN domain name configuration function
 - c. 802.1X supports EAP-TLS, EAP-LEAP protocol
 - d. ISUP 5.0 cloud storage photo server configuration
 - e. OSD word size configuration
- Support storage encryption
- Smart wiper supports only 1 time by default

3.3 Delete

- Delete face arming function

Customer Impact and Recommended Action

This update refers to function/compatibility improvement and will take effect

automatically after the Date of Change. We are very sorry for any inconvenience of use-habit changes caused by this action.

For any questions and request for this firmware, please contact our local technical support team.

Remarks:

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Supported Product List (DExxxxW Series)

Product Category	Model Number
DF Series	DS-2DF8442IXS-AEL(T2)
DF Series	DS-2DF8442IXS-AELW(T2)
DF Series	DS-2DF8442I5XS-AELW(T2)
DF Series	DS-2DF8A442IXS-AEL(T2)
DF Series	DS-2DF8A442IXS-AELY(T2)
DF Series	DS-2DF8A442IXS-AEL/SP(T2)
DF Series	DS-2DF8A442INXS-AEL(T2)
DF Series	DS-2DF8A448IXS-AEL(T2)
DF Series	DS-2DF8A848IXS-AEL(T2)
DF Series	DS-2DF8A442IXS-AF/SP(T2)
DF Series	DS-2DF6A836XS-AEL(T2)
DF Series	DS-2DF6A836XS-AELY(T2)
DF Series	DS-2DF8A842IXS-AEL(T2)
DF Series	DS-2DF8A842INXS-AEL(T2)
DF Series	DS-2DF8A842IXS-AELY(T2)
DF Series	DS-2DF8C442IXS-AEL(T2)
DF Series	DS-2DF8C442IXS-AELW(T2)
DF Series	DS-2DF8C442I5XS-AELW(T2)
DF Series	DS-2DF8C825IXS-AEL(T2)
DF Series	DS-2DF8C825IXS-AELW(T2)
DF Series	DS-2DF8C842IXS-AEL(T2)
DF Series	DS-2DF8C842IXS-AELW(T2)
DF Series	DS-2DF8C263IXS-AELW(T2)
DarkFighter X Series	DS-2DF9C245IHS-DLW(T2)
DarkFighter X Series	DS-2DF9C435IHS-DLW(T2)
DarkFighter X Series	DS-2DF9C435I5HS-DLW(T2)
DF Series	DS-2DF9C473IXS-DLW(T2)
Smart-Linkage Camera	iDS-2SK8144IXS-D/J(40X/2812)(T2)