

# 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 functions:

- [1] Human capture function:

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

- [2] Advanced configuration of human capture

- a . Support human 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 human tracking and capturing. The device will capture the tracking target when setting up the control tracking. If the face and human body reach the capture threshold, upload the tracking captured face and human body
- 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 human 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
- Face 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.

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<b>Supported Product List (DExxxxW Series)</b>	
<b>Product Category</b>	<b>Model Number</b>

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)