Network PTZ Dome Camera Firmware

Version: V5.5.0

# Release Note

Firmware Basic Information	Firmware Version:	V5.5.0
	SDK Version:	V5.2.7.45_build20170612
	Play Library (PlayCtrl.dll)	v7.3.3.61 build170510
	Encapsulation Library (SystemTransform.dll)	V2.5.2.5
	Voice intercom library	1.4.0.3
	iVMS-4200	2.5.13.2build20170709
	IE Client version	plugin: V3.0.6.26 web:V4.0.1build170711
	SADP	v3.0.0.11 build20170710

1. Compatibility Update

- **HIKCGI version: V2.0;**

- **ONVIF version: V1612;**

- **ISAPI version: 2.4;**

- **Milestone:**

  1) Milestone Enterprise 8.1a(2016 R2 10.2a), Milesstone drive version (Device Pack 9.1);
  2) Milestone Corporate version(2017 R1 11.1), Milestone drive version (Driver 9.1);

- **Avigilon Control Center: V5.10.12.2;**

- **Excaqvision: V8.4.2.111542**

- **Keyboard access:**

  1) Network Keyboard: DS-1600K V2.0.0

  2) Serial Keyboard: DS-1006K V1.0

- Version 5.5.0 not supports 4MP DE PTZ Camera that use new sensor, the models are blow:

  1) DS_2DE7430IW

2)   DS_2DE7420IW

3)   DS_2DE5430IW

4)   DS_2DE5420IW
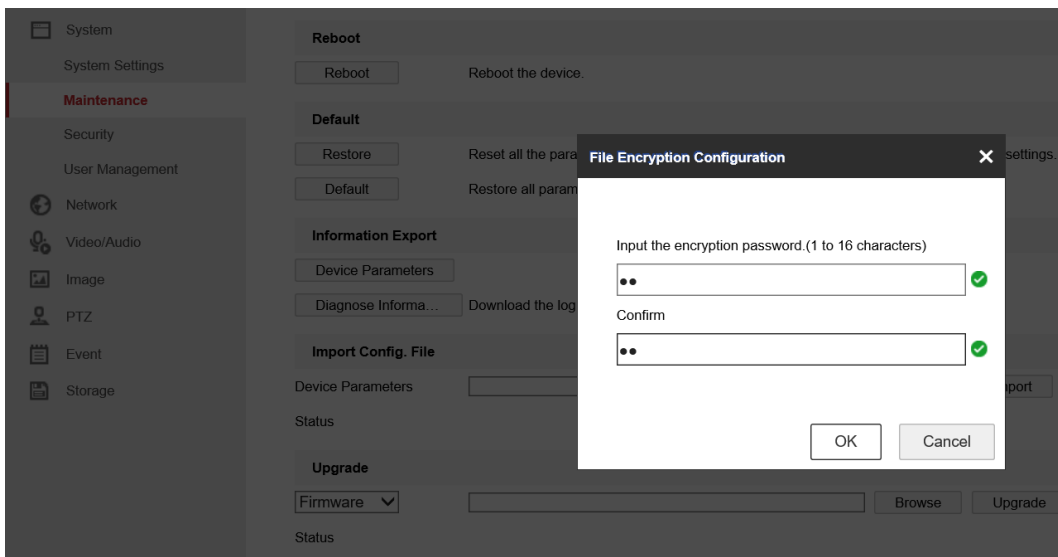
● Supported Products:

Supported
ProductList—R7

Support
Product L
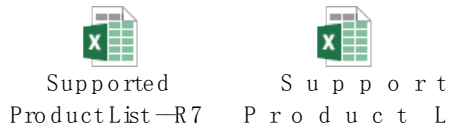
2. Security modifications(compared to 5.4.8)

2.1 Device Parameters Information Export

The password is needed when import or export Device Parameters from Web or 4200 client. The length of password is from 1~16 bits, numbers or letters are permitted.

2.2 Modify ONVIF and CGI

1)   ONVIF is disabled by default at vision 5.5.0, even update device from old version(ONVIF is

enabled). There will be ONVIF switch at Web interface, 4200 Client and Batch Configuration

Client.

2) User management system in ONVIF is independent from device. Add user types, including Media user, Operator and Administrator, Up to 32 users. The password level of ONVIF user is consistent with device user.


3) ONVIF version is updated to V1612, support Media 2.0(only H265 Video Encoding) and Two-way Audio at TCP/UDP/HTTP protocol.

4) ONVIF supports PTZ control in H265 Video Encoding, if ONVIF platform doesn't support media 2.0, streaming from device or PTZ control won't be supported.

5) CGI is disabled by default at vision 5.5.0, even update device from old version (CGI is enabled). There will be CGI switch at Web interface, 4200 Client and Batch Configuration Client and only baseline device support it.
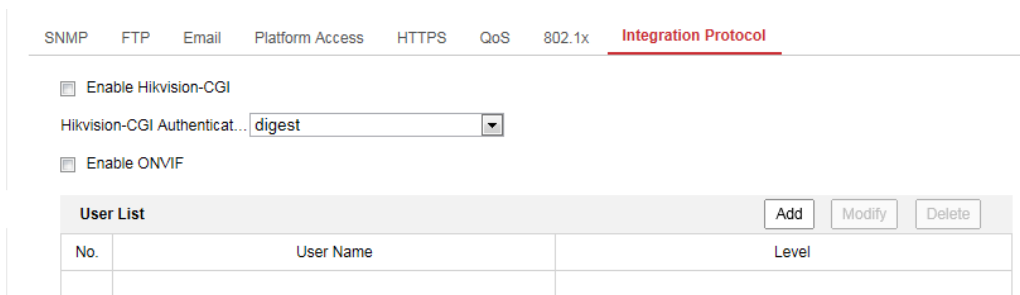
6) If device was restored, ONVIF's enable status won't be restored, but CGI's enable status, ONVIF/CGI/RTSP/web authentication, ONVIF's username and password will be restored, These information was included in Device Parameters can be imported or exported except password.

2.3 Hik-Connect

1. The ezviz name of baseline device is "Hik-Connect" and domain name is

   dev.hik-connect.com; the ezviz name of neutral device is "Guarding Vision" and domain

   name is dev.guardingvision.com.

2. DF series, DY series and ZOOM Camera series don't support HIK-Connect, DE series support

   HIK-Connect, and HIK-Connect is disabled by default.

3. SADP, 4200, 5200, 4500 and HIK-Connect client support to open Cloud P2P when active

   new device, you can also create verification code at the same time.
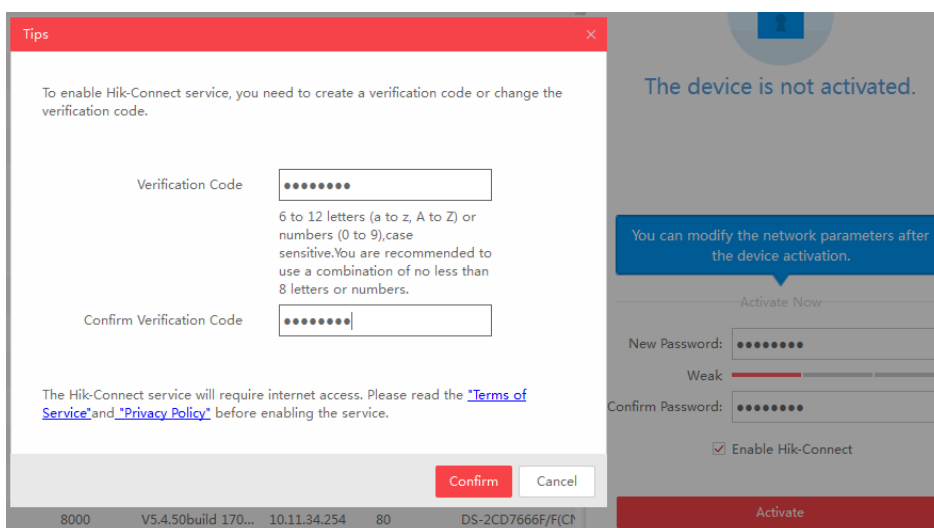
4. You can also open Cloud P2P by web interface or client, there will be a notice to let you

   create Verification code, the verification code is visible.

   If the factory equipment already have the verification code, the device will reminder you to

change it.

5. UPNP is disabled by default, if the device was registered to HIK-Connect, UPNP will be opened. UPNP will be close if the device was unbundled frome HIK-Connect platform.

3. Newly add

3.1 Alarm newly add

1) Preset duration time of Alarm Input can be set up, time range is from 0 to 20 seconds and the default value is 0.

Note：Only device reaches the preset point, duration time can be started. Inside the duration time, device won't deal with other alarm linkage unless the duration time is over. And the device just process latest alarm linkage.

2) PTZ Camera is added "Motion Detection in PTZ Control" function. After enable "Motion

Detection in PTZ Control", Alarm can be triggered even the PTZ Camera is on the move.

Motion Detection	Video Tampering	Alarm Input	Alarm Output	Exception

☑ Enable Motion Detection

☑ Enable Motion Detection in PTZ Control

☑ Enable Dynamic Analysis for Motion

Area Settings	Arming Schedule	Linkage Method

3.2 Rapid Focus supports 4 Scenes.

Compared to version 5.4.8, Rapid Focus has up to 4 Scenes.

Finish calibration before you enable eagle vision focus. Disabling eagle vision focus before you delete all scenes.

Start Calibration	Stop Calibration

			Add	Delete

No.	Scene Name	Rate	Calibration Point Amount	
1	Scene1	21	3	
2	Scene2	21	2	
3	Scene3	21	5	
4	Scene4	21	4	

Rapid focus support list:

1、R3 (62XX, 82XXI) DarkFighter

2、DS-2DF8225IH-AEL、iDS-2VS225-F836

3、H3（62xxX, 82xxIX, 64xxX, 84xxIX）DarkFighter

4、DeepinView : iDS-2PT9122IX

## 3.3 Diagnose Information Export

1) All devices of Version 5.5.0 support export **Diagnose Information**, the filename format is "Serial No._current time.txt".

2) The exported information includes, but is not limited to, netstat, ifconfig, stack information, ft information, Device start-up time, routing table, ps, taskShow, meminfo, getpreviewStatus, dspStatus, getUserOnlineInfo, hardware information.
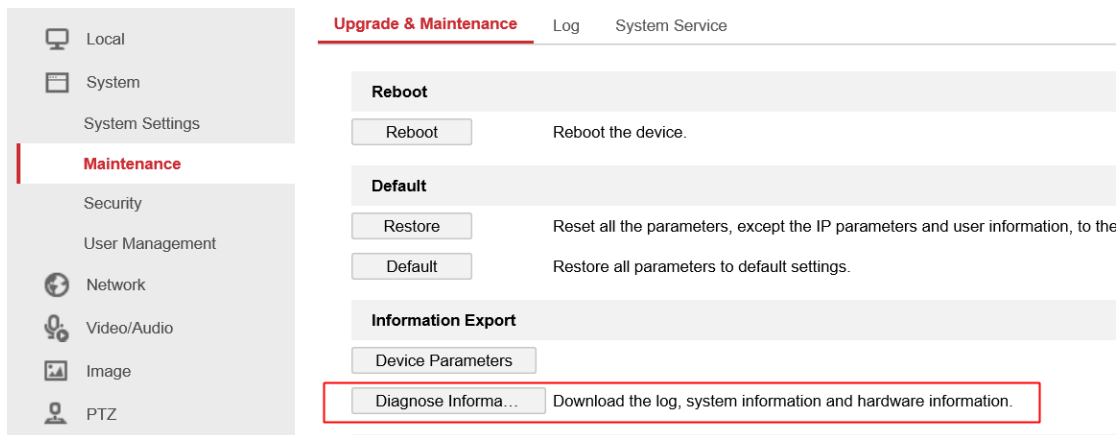
3.4 Local password reset

1) Support Security question in order to help customers get back passwords that might have forgotten

2) In order to ensure safety, reset password operation must be in local area network

3) User can create 3 common questions, there has 10 optional questions.
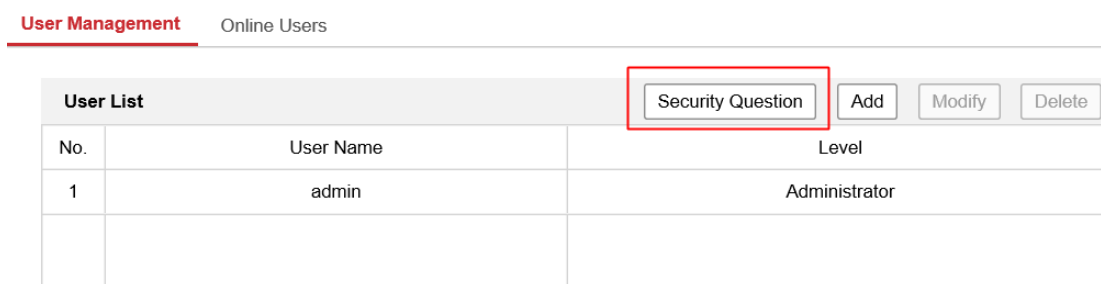
4) At the Login interface, you can click "Forgot password" to input the answers to the questions

that you set.
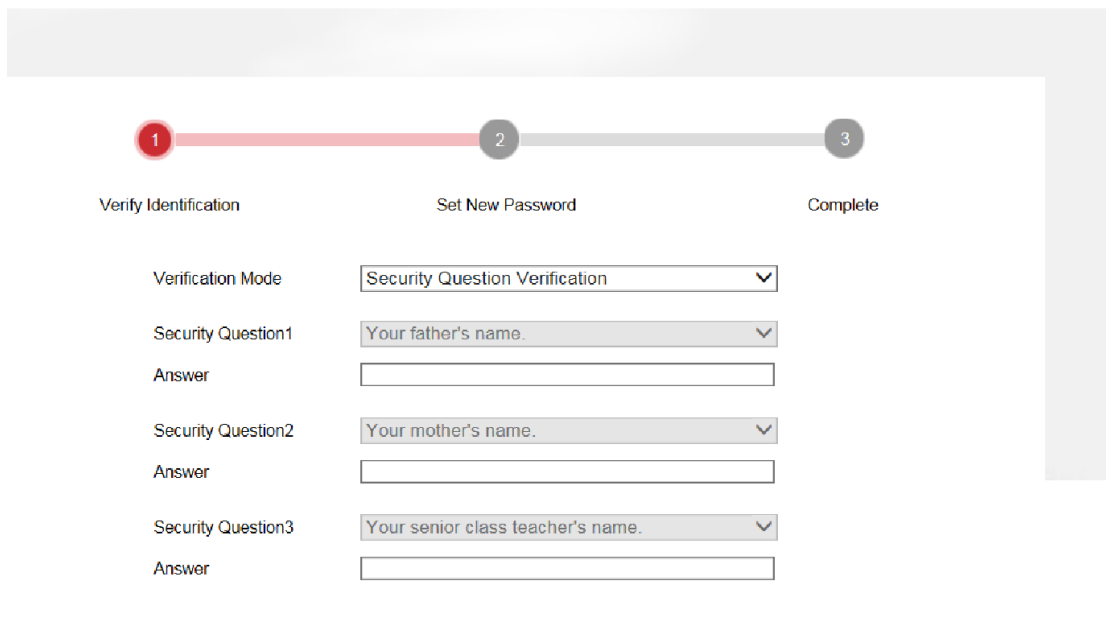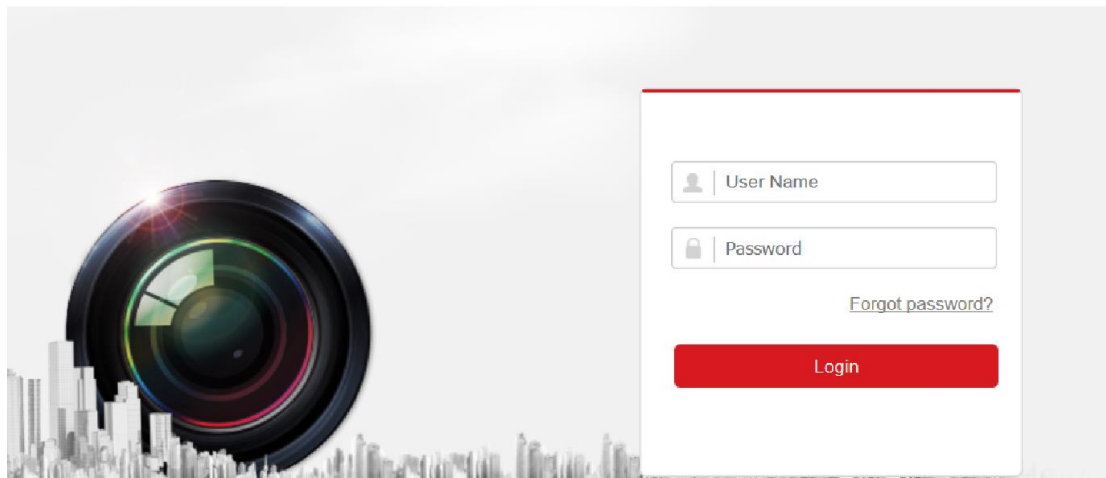
5) SADP client support set *Security Question* when active new device。

3.5 HTTP protocol event alarm connection

1) Support unload arming (alertStream mechanism)
2) Support unload subscription arming (subscribeEvent mechanism)
3) Support unload listening (httpHosts mechanism)

Target: All event alarm is uploaded to platform via http, in order to integrate the third platform.

3.6 Newly add number 46 preset

1) number 46 preset is used for *Day/Night Auto Mode*

3.7 Newly add serial command: setSelfCheck 0/1

The function of "setSelfCheck 0" is turning off "**reboot checking"**, and "setSelfCheck 1" is used for turning on "reboot checking".

Notes: *this command should be carefully used, which may make device's related movement function abnormal*

3.8 Right Reserved information on web interface add year.

3.9 Firmware Version Property add identification

Take **B-R-R3-0F** for example:
1) The first character: B expresses baseline, C expresses OEM
2) The second character: R expresses baseline firmware, F expresses fault recovery firmware.
3) The third character expresses platform information.
4) The forth character is reserved.

| Basic Information | Time Settings | DST | RS-485 | About |

Device Name	IP Positioning System
Device No.	88
Model	DS-2DY9188-AIA
Serial No.	DS-2DY9188-AIA20170224CCWR722324861B
Firmware Version	V5.5.0 build 170731
Encoding Version	V7.4 build 170728
Web Version	V4.0.1 build 170711
Plugin Version	V3.0.6.26
Number of Channels	1
Number of HDDs	0
Number of Alarm Input	7
Number of Alarm Output	2
Firmware Version Property	B-R-R3-0

3.10 Serial No. add platform identification

- B/C is for R3 platform
- W is for R7 platform
- V is for R4 platform
- X is for H3/H1 platform
- Y is for E2 platform

3.11 Support "iperf" command, which can be used in PSH mode.

3.12 The probe PTZ Camera newly add "characteristic collection" configuration.

3.13 Support new firmware identification code

- V5.5.0 support new firmware identification code, in order to make preparation for later online update.

4. Optimization

*****For R3&&R7 platform*****

4.1 Optimize 4G network

1) Solve some operator network, add APN2 mode, only Demo client support it.
2) APN is used to connect private network, and APN2 is used to connect global network.
3) Restoring device doesn't makes 4G, Wifi, Wlan parameters restored.

4.2 Defog&&White-light

1) Optimize optical defog mode: When non-white light device enable optical defog mode, you can switch Day/Night/Auto/Scheduled-Switch mode and open supplement light, but the image is in black-and-white status

2) Optimize optical defog is compatible with automatic white light:

    a) After optical defog opened, image of device is in black-and-white status, Supplement Light will be closed.
    b) After optical defog opened, switching Supplement Light mode won't influence image and light status; Only Day/Night Switch is Auto, which can be configured; Switching to any Day/Night Switch won't influence image and light status too.
    c) After optical defog closed, Day/Night Switch mode and light status will recover.

4.3 Optimize transparent cover

1) Optimize transparent cover of 6.5 inch PTZ Camera, input "setSpecialIris" serial command to open the function, which is closed by default.

4.4 Change the password needs to enter the original password

1) Administrator delete or add new user needs to input Admin Password.

### 4.5 H265 Encoding support SVC configuration.

4.6   Change HTTPS

1) Delete https certification and reboot device, which won't create certification automatically.
2) Secret key length of HTTPS certification is change from 1024 to 2048.

4.7   Optimize supplement light effect of PTZ Camera.

1) Optimize IR light ICR back and forth oscillation issue.

4.8   Close SSH on the web interface

1) Delete SSH on the web interface, which can be opened at SDK client.
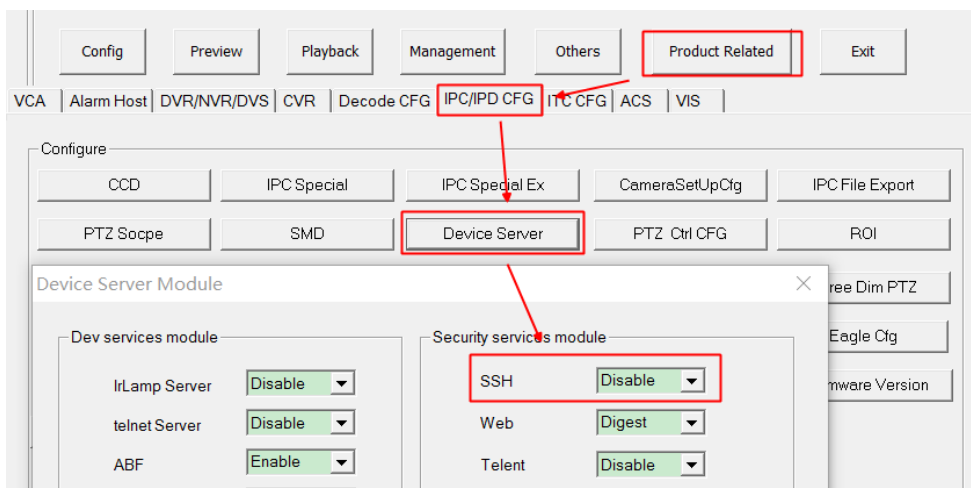
4.9 The memory side of SD card mostly supports 256Gb

4.10   Repair the issue that Model in Serial No. can only display 19 bits.

4.11   Optimize the device's SD card compatibility

4.12   Optimize SDI PTZ Camera of R3 platform control effect.

4.13   Modify IPTH Positioning System Model and zoom multiple.

1) Zoom multiple is changed to 62X, 278 model is changed to 277 model.

4.14   All devices support SVC function.

4.15   All devices was deleted "1000M Full-dup" on the web interface.

4.16   EIS of PTZ Camera supports "hold" function: image will not had sudden change after enable EIS.

4.17   Whether supports SMD push graph function or not depends on the device's memory size, 1G memory size device supports SMD push graph, 256M not.

4.18   ZOOM Camera don't support MicIn function on the web interface.

4.19   If Device model Camera don't match Module or lens don't match sensor, the device will has suppositional focus.

4.20   Zoom tracking function of all PTZ Camera and positioning system

support semi-auto mode, if the device supports Eagle Vision Focus, Zoom tracking supports Auto, semi-auto and Eagle Vision Focus mode.

4.21   The Park Time of ZOOM Camera keeps consistent with PTZ Camera, which is changed from 15 second to 5 second.

5. *Delete*

Delete Genetec and PSIA supports

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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