

Network Camera Firmware

Revision: V5.2.0 build 140721

Release note

(2014-08-22)

Firmware Basic Information	Firmware Revision:	V5.2.0 build 140721
	SDK Revision:	V4.3.0.5_Build20140627
	Play Library (PlayCtrl.dll)	V 6.5.2.60
	Encapsulation Library (SystemTransform.dll)	V 2.3.0.12
	RTSP Communication Library (StreamTransClient.dll)	V 1.1.2.12
	Voice intercom library (AudioIntercom.dll)	V1.1.0.5
	Smart configuration library	V3.0.0.15 build20140702
	iVMS-4200 PCNVR	Version4200 v2.00.11.05 build20140715
	IE Client version	3.0.5.21 build20140711

Hikvision Firmware V5.2.0 build 140721 Features

**for all IPC platforms*

1. New Features

- Support 8 new languages: Romanian, Finnish, Norwegian, Danish, Swedish, Croatian, Serbian, Slovenian.

2. Improved Features

- Optimized the UI layout of HELP menu;
- Added the unit display of XY coordinates for people counting and heat mapping functions;

- **Added the IE client display for 256Kbps, 512Kbps and 12288Kbps;**
- **Optimized Defocus Detection algorithm with decreased detection time;**
- **Prohibited these special characters: “\:*?\"<>|%” for user account creating;**
- **Optimized ONVIF protocol support:**

Support configuration file input/output; support log enquiring, support ODM test, support user authentication for HTTP snapshot; support New Event based on V2.4 protocol; support Defocus Detection, Audio Detection, Scene Change Detection; support Media-related event.

- **Changed video stream as default instead of video & audio;**
- **Optimized upgrading notice, time and security mechanism.**

****for 2-line Network Cameras (RO Platform)***

1. New features

- **Support device verification code for EZVIZ Cloud P2P;**
- **Support NVR Smart Search;**
- **Support Smart Config. Wi-Fi connection through EZVIZ CLOUD P2P;**
- **Support sub-streaming Push function in MJPEG.**

2. Improved Features

- **Solved false alarm issue caused by motion detection when switching to Capture Mode;**
- **Added Intrusion detection (only 1 defined area) and Line Crossing Detection (only 1 defined virtual line);**
- **Support one ROI codec area (Region of Interest);**
- **All support EZVIZ CLOUD P2P function (own-branded models).**

****for 4-line Network Cameras (R1 Platform)***

1. New features

- **Support 8~32mm Motorized VF lens with Auto Focus.**

2. Improved Features

- **Optimized MJPEG encoding self-adaptivity: it varies based on image quality under VBR, or**

varies based on bitrate under CBR;

- Added mutual exclusion message between Mirror and high framerate (50/60fps) in Full HD1080p resolution in Capture mode.

****for R2 Eco line Network Cameras (R2 Platform)***

1. New features

- Support device verification code for EZVIZ Cloud P2P;
- Support NVR Smart Search;
- Support Preset for DS-2CD2Q10F-IW mini PT camera;
- Support Smart Config. Wi-Fi connection through EZVIZ CLOUD P2P;
- Support sub-streaming Push function in MJPEG.

2. Improved Features

- Optimized image quality;
- Improved the reliability of SD card hot swapping;
- Modified the LED display order for cube and mini PT cameras:

DS-2CD2Q10F-IW Mini PT cameras: power on -> red LED -> green LED -> blue LED.

DS-2CD24xx and DS-2CD2Cxx Cube cameras: power on -> all three LEDs light up.

- Changed playback limit to one channel;
- Support one ROI codec area (Region of Interest);
- Added Intrusion detection (only 1 defined area) and Line Crossing Detection (only 1 defined virtual line);
- All support EZVIZ CLOUD P2P function (own-branded models).

****for Intelligent Network Cameras (R3 Platform)***

1. New features

- Support Face Capture with structural information output;
- Support 8~32mm Motorized VF lens with Auto Focus.

2. Improved features

- Optimized MJPEG encoding self-adaptivity: it varies based on image quality under VBR, or varies based on bitrate under CBR;

**for 4-line Network Cameras (R4 Platform)*

1. New features

- Support 8~32mm Motorized VF lens with Auto Focus;
- Support Defocus Detection;
- Support picture overlay;
- Support HLC;
- Support sub-streaming Push function in MJPEG;
- Support Smart IR.

2. Improved features

- Optimized image quality;
- Exposure time: up to 1s.

Compatibility Update

- NVR access version:

Marvell High performance NVR (Model DS-96128N-E16): 3.0.1_build_140310

HISI3535 (DS-7732N-E4, DS-7732N-E4/16P): V3.0.5 build140508

Netra Platform: V3.1.2_20140512

- HIKCGI version: V2.0;
- ISAPI version: V2.2;
- PSIA version: V1.1;
- ONVIF V2.4(profile S), Official test tool version: V13.12;

- **NUUO:**

1. Version: V5.0, drive version: V3.3 ;
2. Protocol: HIKCGI

- **Milestone:**

1. Milestone Enterprise 8.1a (8.5b), Milestone drive version (Driver 7.3), test HIKCGI
2. Milestone software version (Milestone Corporate 6.1a), Milestone drive version (Driver 7.3),
test HIKCGI

- **Avigilon:**

1. Control Center: V5.2.0.24;
2. Test ONVIF.

- **Excaqvision**

1. Version: 6.0.10.59050
2. Protocol: HIKCGI, ONVIF

- **NAS(Only test for Brainaire)**

DS-A2016R, DS-A1016RS V2.2.0-7

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:

- Hikvision reserves the right to change, alter or withdraw the above notification without prior notice.
- Product design and specifications are subject to change without prior notice.
- The Hikvision firmware may contain defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.
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Supported Product List (2-Line network camera, R0 Platform)

Product Category	Model Number	Product Description
Mini IR Bullet	DS-2CD2012-I	1.3MP, IR
Mini IR Bullet	DS-2CD2022-I	2MP, IR
Mini IR Bullet	DS-2CD2032-I	3MP, IR
IR Fixed Dome	DS-2CD2112F-I(S)(W)	1.3MP, IR
IR Fixed Dome	DS-2CD2122-I(S)(W)	2MP, IR
IR Fixed Dome	DS-2CD2132-I(S)(W)	3MP, IR
EXIR Bullet	DS-2CD2212-I5	1.3MP, up to 50m IR
EXIR Bullet	DS-2CD2232-I5	3MP, up to 50m IR
EXIR Turret	DS-2CD2312-I	1.3MP, up to 30m IR
EXIR Turret	DS-2CD2332-I	3MP, up to 30m IR
IR Cube	DS-2CD2412F-I(W)	1.3MP, IR, Wi-Fi optional
IR Cube	DS-2CD2432F-I(W)	3MP, IR, Wi-Fi optional
IR Mini Dome	DS-2CD2512F-I(S)	1.3MP, IR, Audio/Alarm optional
IR Mini Dome	DS-2CD2532F-I(S)	3MP, IR, Audio/Alarm optional
VF IR Bullet	DS-2CD2612F-I(S)	1.3MP, VF lens, IR, Audio/Alarm optional
VF IR Bullet	DS-2CD2632F-I(S)	3MP, VF lens, IR, Audio/Alarm optional
VF IR Dome	DS-2CD2712F-I(S)	1.3MP, VF lens, IR, Audio/Alarm optional
VF IR Dome	DS-2CD2732F-I(S)	3MP, VF lens, IR, Audio/Alarm optional
EXIR Bullet	DS-2CD2T12-I3/I5/I8	1.3MP
EXIR Bullet	DS-2CD2T22-I3/I5/I8	2MP
EXIR Bullet	DS-2CD2T32-I3/I5/I8	3MP

Supported Product List (R2 Eco Line network camera, R2 Platform)

Product Category	Model Number	Product Description
Mini IR Bullet	DS-2CD2010-I	1.3MP, IR
Mini IR Bullet	DS-2CD2020-I	2MP, IR
IR Fixed Dome	DS-2CD2110F-I(S)(W)	1.3MP, IR

IR Fixed Dome	DS-2CD2120F-I(S)(W)	2MP, IR
IR Cube	DS-2CD2410F-I(W)	1MP, IR, Wi-Fi optional
IR Cube	DS-2CD2420F-I(W)	2MP, IR, Wi-Fi optional
Mini Dome	DS-2CD2510F	1.3MP
Mini Dome	DS-2CD2520F	2MP
VF IR Bullet	DS-2CD2610F-I(S)	1.3MP, VF lens, IR, Audio/Alarm optional
VF IR Bullet	DS-2CD2620F-I(S)	2MP, VF lens, IR, Audio/Alarm optional
VF IR Dome	DS-2CD2710F-I(S)	1.3MP, VF lens, IR, Audio/Alarm optional
VF IR Dome	DS-2CD2720F-I(S)	2MP, VF lens, IR, Audio/Alarm optional
IR Mini PT	DS-2CDQ10F-IW	1MP, Wi-Fi
Pinhole	DS-2CD2D10FWD	1MP
Alarm Cube	DS-2CD2C10F-IW	1MP, Wi-Fi

Supported Product List (4-Line Smart IP Camera, R1 Platform)

Product Category	Model Number	Product Description
Box Camera	DS-2CD4012F(-A)(W)	1.3MP, 60fps, ABF optional, Wi-Fi optional
Box Camera	DS-2CD4012FWD(-A)(W)	1.3MP, WDR, ABF optional, Wi-Fi optional
Box Camera	DS-2CD4024F(-A)(W)	2MP, ABF optional, Wi-Fi optional
Box Camera	DS-2CD4032FWD(-A)(W)	3MP, WDR, ABF optional, Wi-Fi optional
IR Indoor Dome	DS-2CD4112F-I(Z)	1.3MP, 60fps, Motorized VF lens optional
IR Indoor Dome	DS-2CD4112FWD-I(Z)	1.3MP, WDR, Motorized VF lens optional
IR Indoor Dome	DS-2CD4124F-I(Z)	1.3MP, Motorized VF lens optional
IR Indoor Dome	DS-2CD4132FWD-I(Z)	1.3MP, WDR, Motorized VF lens optional
IR Bullet	DS-2CD4212F-I(Z)(S)(H)	1.3MP, Motorized VF lens optional, Heater optional
IR Bullet	DS-2CD4212FWD-I(Z)(S)(H)	1.3MP, WDR, Motorized VF lens optional, Heater optional
IR Bullet	DS-2CD4224F-I(Z)(S)(H)	2MP, Motorized VF lens optional, Heater optional
IR Bullet	DS-2CD4232FWD-I(Z)(S)(H)	3MP, WDR, Motorized VF lens optional, Heater optional
IR Outdoor Dome	DS-2CD4312F-I(Z)(S)(H)	1.3MP, Motorized VF lens optional, Heater optional
IR Outdoor Dome	DS-2CD4312FWD-I(Z)(S)(H)	1.3MP, WDR, Motorized VF lens optional, Heater optional
IR Outdoor Dome	DS-2CD4324F-I(Z)(S)(H)	2MP, Motorized VF lens optional, Heater optional

IR Outdoor Dome	DS-2CD4332FWD-I(Z)(S)(H)	3MP, WDR, Motorized VF lens optional, Heater optional
Covert Camera	DS-2CD6412FWD	1.3MP, WDR

Supported Product List (6-Line network camera, R3 Platform)

Product Category	Model Number	Product Description
Box Camera	DS-2CD6026FHWD (-A)	2MP, 60fps, Ultra Low-light, ABF optional
Intelligent Camera	iDS-2CD6024FWD/C	2MP, People Counting
Intelligent Camera	iDS-2CD6024FWD/B	2MP, Behavior Analysis
Intelligent Camera	iDS-2CD6124FWD/H	2MP, Heat Mapping

Supported Product List (4-Line Smart IP Camera, R4 Platform)

Product Category	Model Number	Product Description
Box Camera	DS-2CD4025FWD	2MP, WDR
Box Camera	DS-2CD4035F	3MP
Box Camera	DS-2CD4065F	6MP
Indoor Dome	DS-2CD4125FWD-IZ	2MP, WDR
Indoor Dome	DS-2CD4135F-IZ	3MP
Outdoor Dome	DS-2CD4525FWD-IZ(H)	2MP, WDR
Outdoor Dome	DS-2CD4535F-IZ(H)	3MP
IR Bullet	DS-2CD4A25FWD-IZ(S)	2MP, WDR