

## Network Camera Firmware

### Revision: V5.2.0 build 140721

### Release note

### (2014-08-22)

<b>Firmware Basic Information</b>	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 Network Cameras*

### 1. New Features

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

### 2. Improved Features

- Optimized the UI layout of HELP menu;
- Optimized Defocus Detection algorithm with decreased detection time;
- Prohibited these special characters: “\:\*?'"<>|%"” for user account creating;

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

## *\*for 4XX2, 4XX4 Network Cameras*

### 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 2XX2 Network Cameras*

### 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 and Line Crossing Detection;
- Support one ROI codec area (Region of Interest);
- All support EZVIZ CLOUD P2P function (own-branded models).

## *\*for 2XX0 Network Cameras*

### 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;
- Support one ROI codec area (Region of Interest);
- Added Intrusion detection and Line Crossing Detection;
- All support EZVIZ CLOUD P2P function (own-branded models).

### *\*for iDS-6XXX Network Cameras*

#### 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 4XX5 Network Cameras*

#### 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

- **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.
- Hikvision is not liable for any typing or printing errors.

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## Supported Product List

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 (2XX0)

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 (4XX2, 4X24, 6412)

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 (6XXX)

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 (4XX5)

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