

## Network Camera Firmware

### Revision: V5.1.0 build 131202

### Release note

### (2013-12-12)

<b>Firmware</b> <b>Basic Information</b>	Firmware Revision:	V5.1.0 build131202
	SDK Revision:	V4.2.6.8 build20131113
	Play Library (PlayCtrl.dll)	V6.5.1.6 build131116
	Encapsulation Library (SystemTransform.dll)	V2.3.0.5
	RTSP Communication Library (StreamTransClient.dll)	V1.1.2.8
	iVMS-4200 PCNVR	V1.03.03.04 build201301127
	IE Client version	V3.1.3.131126, Plugin:3.0.4.17

## Hikvision Firmware V5.1.0 build 131202 Features

*\*for all IPC platforms*

### 1. New Features

- Add video input mode (capture mode);
- Support MP2L2 audio encoding (32Kbps/64Kbps/128Kbps) \*except DM365 platform;
- Support switch-on/off function for IR LED (hardware approach);
- Support switch-on/off function for Telnet protocol (software approach);
- Support ISAPI protocol;
- Support multi-view plug-ins:

Internet Explorer: support Quick Time;

Other browsers: support VLC, Quick Time and MJPEG push video.

- Support Multiple language

Simplified Chinese, Chinese Traditional, English, Russian, Turkish, Japanese, Korean, Thai, Vietnamese, Estonian, Bulgarian, Hungarian, Czech, Slovakian, French, Italian, German, Spanish, Portuguese, Polish, Greece, Dutch;

- **Support Bonjour protocol;**
- **Support HDD quota configuration for local storage;**
- **Support NAS user authentication;**
- **Support ANR function (Automatic Network Replenishment);**
- **Support auto match upgrade, including TFTP direct connected upgrade, PCNVR and WEB client upgrade.**
- **Support private protocol preview.**

## 2. Improved Features

- **Optimized Motion Detection function:**

Add configuration option: normal mode/expert mode;

Expert mode: support day/night separate setting; up to 8 configurable areas.

- **Enriched the image settings**

Support day/night separate setting, including brightness, exposure time, contrast, sharpness, AGC, White Balance, Defog, DNR, BLC, WDR, HLC, EIS and grayscale.

- **Support IPv6 address filtering;**
- **Support adding NAS server without reboot;**
- **Support image search by type;**
- **Optimized UpnP protocol;**
- **Solved Wi-Fi devices' reliability issue under DM365 platform;**
- **Optimized the upgrade interface's reliability;**
- **Solved the video streaming issue when booting up.**
- **Optimized the IE Client's interface layout;**
- **PC-NVR supports snapshot in BMP and JPEG format (JPEG as default).**

*\*for 2-line Network Cameras*

### 1. New features

- Support ROI (Region of Interest) codec;
- Support Rotate mode;
- Support surrounding noise filtering;
- Support echo cancellation for 24xx IR cube cameras;
- Support WPS connection;
- Support SVC (Scalable Video Coding) function.
- Support RTP watermark encapsulation

## 2. Improved Features

- Solved no-interruption issue caused by OSD;
- Support 20fps at 3 Megapixel;

### *\*for 4-line Network Cameras*

#### 1. New features

- Support triple video streaming;
- Support ROI (Region of Interest) codec;
- Support face detection;
- Support SVC (Scalable Video Codec) function;
- Support Rotate Mode;
- Support ABF (Auto Back Focus) function;
- Support up to 20-ch preview;
- Support intrusion detection;
- Support audio detection;
- Support defocus detection;
- Support defog;
- Support EIS (Electronic Image Stabilization);
- Support surrounding noise filtering;
- Support slow shutter;
- Support OSD up to 8 array;
- Support low latency mode;
- Support Smart IR;

- Support Scene Change Detection;
- Support Auto Focus;
- Support P-Iris;
- Support WPS connection.

***\*for R3 platform Special Network Camera DS-2CD6026FHWD***

## **1. New features**

- Support low latency;
- Support Scene Change detection;
- Support triple video stream;
- Support ROI (Region of Interest) codec;
- Support Face Detection;
- Support SVC (Scalable Video Codec) function;
- Support Rotate Mode;
- Support ABF (Auto Back Focus) function;
- Support up to 20-ch preview;
- Support intrusion detection;
- Support audio detection;
- Support defocus detection;
- Support defog;
- Support EIS (Electronic Image Stabilization);
- Support surrounding noise filtering;
- Support slow shutter;

***\*for DM365 platform Network Cameras***

## **2. Improved Features**

- Support AD4642 audio chip compatibility;
- Optimized OSD layout;
- Improved OSD reliability issue;

- **Improved the wireless devices' reliability.**

## Compatibility Update

- **NVR access version:**

Netra platform 9016-ST: V3.0.1 build130828 ;

8107 platform 7604-SE: V2.3.4 build130704 ;

- **HIKCGI 2.0; ISAPI 2.0; PSIA 1.1;**
- **ONVIF 2.2(profile S) Official test version V13.06;**
- **NUUO:**

1. Version: 4.1.12, drive version: 2.17 ;

2. Protocol: HIKCGI

- **Milestone**

1. Version: Milestone Enterprise 8.1a, Milestone Corporate 6.0a ;

2. Drive Version: Driver 6.9

2. Protocol: ONVIF

- **Excagvision**

1. Version: 5.8.1

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 (DM365 Platform)

Product Category	Model Number	Product Description
Box Camera	DS-2CD833F-E(W)	VGA, Wi-Fi optional
Box Camera	DS-2CD893P(N)F-E(W)	4CIF, PAL/NTSC, Wi-Fi optional
Box Camera	DS-2CD893P(N)FWD-E(W)	4CIF, PAL/NTSC, WDR, Wi-Fi optional
Box Camera	DS-2CD863P(N)F-E(W)	1.3MP, PAL/NTSC, Wi-Fi optional
Box Camera	DS-2CD864-E(W)	1.3MP, Low-light, Wi-Fi optional
Box Camera	DS-2CD864FWD-E(W)	1.3MP, WDR, Low-light, Wi-Fi optional
Box Camera	DS-2CD853F-E(W)	2MP, Wi-Fi optional
Box Camera	DS-2CD855F-E	2MP, Low-light, Full-HD
Box Camera	DS-2CD854F-E(W)	3MP, Full HD, Wi-Fi optional
Box Camera	DS-2CD854FWD-E(W)	3MP, WDR, Full HD, Wi-Fi optional
Box Camera	DS-2CD883F-E(W)	5MP, Full HD, Wi-Fi optional
Indoor Dome Camera	DS-2CD733F-E(I)(Z)	VGA, IR & Motorized VF lens optional
Indoor Dome Camera	DS-2CD793P(N)F-E(I)(Z)	4CIF, PAL/NTSC, IR & Motorized VF lens optional
Indoor Dome Camera	DS-2CD793P(N)FWD-E(I)(Z)	4CIF, WDR, PAL/NTSC, IR & Motorized VF lens optional
Indoor Dome Camera	DS-2CD763P(N)F-E(I)(Z)	1.3MP, PAL/NTSC, IR & Motorized VF lens optional
Indoor Dome Camera	DS-2CD764F-E(I)(Z)	1.3MP, Low-light, IR & Motorized VF lens optional
Indoor Dome Camera	DS-2CD764FWD-E(I)(Z)	1.3MP, WDR, Low-light, IR & Motorized VF lens optional
Indoor Dome Camera	DS-2CD753F-E(I)(Z)	2MP, IR & Motorized VF lens optional
Indoor Dome Camera	DS-2CD755F-E(I)	2MP, Full HD, Low-light, IR optional
Indoor Dome Camera	DS-2CD754F-E(I)(Z)	3MP, Full HD, IR & Motorized VF lens optional
Indoor Dome Camera	DS-2CD754FWD-E(I)(Z)	3MP, WDR, Full HD, IR & Motorized VF lens optional
Indoor Dome Camera	DS-2CD783F-E(I)	5MP, Full HD, IR optional
Outdoor Dome Camera	DS-2CD7233F-E(I)Z(H)	VGA, IR & Heater optional
Outdoor Dome Camera	DS-2CD7293P(N)F-E(I)Z(H)	4CIF, PAL/NTSC, IR & Heater optional
Outdoor Dome Camera	DS-2CD7293P(N)FWD-E(I)Z(H)	4CIF, WDR, PAL/NTSC, IR & Heater optional
Outdoor Dome Camera	DS-2CD7263P(N)F-E(I)Z(H)	1.3MP, PAL/NTSC, IR & Heater optional
Outdoor Dome Camera	DS-2CD7264FWD-E(I)Z(H)	1.3MP, WDR, Low-light, IR & Heater optional
Outdoor Dome Camera	DS-2CD7253F-E(I)Z(H)	2MP, IR & Heater optional

Outdoor Dome Camera	DS-2CD7254F-E(I)Z(H)	3MP, Full HD, IR & Heater optional
Outdoor Dome Camera	DS-2CD7254FWD-E(I)Z(H)	3MP, WDR, Full HD, IR & Heater optional
Outdoor Bullet Camera	DS-2CD8233F-E(I)Z	VGA, IR & Motorized VF lens optional
Outdoor Bullet Camera	DS-2CD8264F-E(I)Z	1.3MP, Low-light, IR & Motorized VF lens optional
Outdoor Bullet Camera	DS-2CD8264FWD-E(I)Z	1.3MP, WDR, Low-light, IR & Motorized VF lens optional
Outdoor Bullet Camera	DS-2CD8253F-E(I)Z	2MP, IR & Motorized VF lens optional
Outdoor Bullet Camera	DS-2CD8255F-E(I)	2MP, Full HD, Low-light, IR optional
Outdoor Bullet Camera	DS-2CD8254F-E(I)Z	3MP, Full HD, IR & Motorized VF lens optional
Outdoor Bullet Camera	DS-2CD8254FWD-E(I)Z	3MP, WDR, Full HD, IR & Motorized VF lens optional
Outdoor Bullet Camera	DS-2CD8283F-E(I)	5MP, Full HD, IR optional
Outdoor Bullet Camera	DS-2CD864-EI3	1.3MP
Mini Dome Camera	DS-2CD7133-E	VGA
Mini Dome Camera	DS-2CD7164-E	1.3MP, Low-light
Mini Dome Camera	DS-2CD7153-E	2MP
Indoor Cube Camera	DS-2CD8133F-E(W)	VGA, Wi-Fi optional
Indoor Cube Camera	DS-2CD8153F-E(W)	2MP, Wi-Fi optional

## Supported Product List (2-Line network camera)

Product Category	Model Number	Product Description
Mini IR Bullet	DS-2CD2012-I	1.3MP, IR
Mini IR Bullet	DS-2CD2032-I	3MP, IR
IR Fixed Dome	DS-2CD2112-I	1.3MP, IR
IR Fixed Dome	DS-2CD2132-I	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)(W)	1.3MP, IR, Audio/Alarm optional, Wi-Fi optional



IR Mini Dome	DS-2CD2532F-I(S)(W)	3MP, IR, Audio/Alarm optional, Wi-Fi 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

## Supported Product List (4-Line network camera)

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
Box Camera	DS-2CD4032FHWD(-A)	3MP, WDR, 60fps, 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

## Supported Product List (R3 Platform Special network camera)

Product Category	Model Number	Product Description
Box Camera	DS-2CD6026FHWD (-A)	2MP, 60fps, Ultra Low-light, ABF optional