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Action Required:	None, Information Only				

▼ Summary

Firmware Basic Information	Firmware Version	v5.4.0
	SDK Version	v5.1.6.21, build 20160401
	Play Library (PlayCtrl.dll)	v7.3.0.74
	Encapsulation Library (SystemTransform.dll)	v2.5.1.7
	RTSP Communication Library (StreamTransClient.dll)	v1.1.3.4
	Voice intercom library (AudioIntercom.dll)	v1.3.0.3
	Smart configuration library	v3.3.9.6
	iVMS-4200	Version 4200 v2.04.06.11, build 20160405
	IE Client version	v3.0.6.1, build 160304

▼ Features

■ All IPC Platforms

• New Features

- Supports ONVIF 2.6 with ONVIF storage configuration
- Live view image auto adjusts rotate mode
- IP addresses of all online users are shown in System > User Management > Online Users
- Web browser supports 29 languages: Traditional Chinese, English, Russian, Turkish, Japanese, Korean, Thai, Vietnamese, Estonian, Bulgarian, Hungarian, Czech, Slovak, French, Italian, German, Spanish, Portuguese, Polish, Greek, Dutch, Romanian, Finnish, Norwegian, Danish, Swedish, Croatian, Serbian, and Slovenian
- “Open” button has been added to Web browser (Configuration > Local > Record File Settings/Picture and Clip Settings) to open folders to save records or snapshots

• Improved Features

- Supports domain access to Hik-connect
- Locality and domain available in HiDDNS configuration

NOTE: By default, Custom indicates that the local server will be applied according to the IP address of the device. Also, user is able to choose the HiDDNS server in custom mode.

- For 4-line cameras, exposure time options of 1/75, 1/125, 1/175, 1/225, 1/300, and 1/400 second have been added

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- For Hikvision MicroSD Cards Only: Memory card detection is available to show SD card health status and remaining lifespan. R/W lock is also available. Customer is able to set their own password (6-digit number) for microSD card, and defaulting the camera will not restore the password.

WARNING: The SD card password cannot be recovered.

- NOTES:**
1. The old SD card password is needed to reset to a new SD card password.
 2. The R/W Lock interface can be configured when the SD card is online, only by an administrator account.

- Supports softAP (cannot be used with Wi-Fi simultaneously)
- Supports TLS encryption for e-mail configuration, and STARTTLS option is available
- In Scheduled Image Settings, Saturation can be configured in Day/Night individually. Scheduled Day/Night switch start time and end time can be on different days.
- Wi-Fi configuration user interface has been improved. Wi-Fi can be enabled or disabled. 64-bit password is supported in Web Component.
- In FTP configuration, captured images can be categorized by the prefix. Picture Filing Interval ranges from 1 to 30 days, and the prefix of images can be customized.
- The Day/Night switch by alarm strategy has been changed. As soon as an alarm is received, the Day/Night switch process starts.
- Day/Night default switch schedule has changed from 7:00 to 18:00 to 6:00 to 18:00.
- The minimum capture interval has been changed to 1000 ms.
- Bug Solved: When input volume is set to 0, there will be no sound in live view.
- For 4-line cameras, picture capture in the sub stream is supported. Configuration is in Capture > Advanced.
- IP conflicts are detected within 5 seconds
- Default bitrates have been changed for ease of memorization: 720p (2 Mbps), 1080p (4 Mbps), 3 MP (6 Mbps), 4 MP (6 Mbps), 5 MP (8 to 10 Mbps), 6 MP (10 Mbps), 8 MP (12 Mbps), 12 MP (12 Mbps).
- **Security Mechanism Improvements**
 - Anonymous access has been banned to improve security level.
 - In SNMP v1 and v2, a warning has been added to encourage users to adopt SNMP v3, which is a safer standard to protect information.
 - SSH is now forbidden, to improve security.

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■ 2xx0 Network Cameras (v5.4.0 build 160401)

• Changes

- New models with motorized lenses: DS-2CD2610F-IZ(S), DS-2CD2620F-IZ(S), DS-2CD2710F-IZ(S), DS-2CD2710F-IZ(S)
- IR illumination configurable. In smart IR manual mode, IR distance is configurable.
- Chinese OSD is no longer supported in multi-language firmware
- Dual-VCA has been eliminated on 2 MP models to improve system stability

■ 2xx2WD, 2x52 Network Cameras (v5.4.0, build 160401)

• Changes

- 16 presets available for PT dome 2FX2 models
- Expert mode in DNR is available
- The sub stream resolution of 2x12WD and 2x52 has been changed to CIF and 640 x 360, to be the same with 2 MP and 4 MP models.
- Lens shadow correction available for 2x22FWD models

■ 4xx2, 4x24F Network Cameras (v5.4.0, build 160419)

• New Features

- Added ZF5 lens for DS-2CD4332FWD

• Optimizations

- Removed Day/Night switch sensitivity for devices with photo resistance

■ 4x24FWD, 4x26FWD Network Cameras (v5.4.0, build 160414)

• New Features

- Added ZF5 (2.8 mm to 12 mm) lens for DS-2CD4A24FWD.
- DS-2CD4A26FWD and DS-2CD4826FWD now support the ZF2-D (8 mm to 32 mm) lens

• Optimizations

- Removed Day/Night switch sensitivity for devices with photo resistance
- IDS-2CD6124FWD/C and IDS-2CD6412FWD/C removed Setting the Statistical Cycle function

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■ 4xx5 Network Cameras (v5.4.0, build 160421)

• New Features

- The DS-2CD4x85F and DS-2CD4xC5F default capture resolutions are now main stream, and DS-2CD4x65 is now sub stream

• Optimizations

- Image updates within five seconds when activating/deactivating WDR or switching resolution.
- Solved the issue that local output cannot be closed in previous versions of all R4 platform devices.
- Solved the issue that R4 4K cameras could not live view the sub stream in 4096 x 2160 resolution when H.264+ was enabled.
- DS-2CD4x65 max bitrate has been modified from 24 fps to 20 fps in 3012 x 2048 resolution. Solves the issue that sub streams could not live view when FTP capture was enabled in 3012 x 2048 resolution.

■ 4-line Lite Series/DS-2CD4A24FWD (4.7 mm to 94 mm) Network Cameras

• Changes

- Support for 16 Mbps maximum bit rate
- The H.264+ information has been improved for clarity

▼ Compatibility Updates

• HIKCGI

- Version: v2.0

• ISAPI

- Version: v2.4

• PSIA

- Version: v1.1
- Official Test Version: v2.0.2

• ONVIF

- Version: v2.4
- Official Test Tool Version: v14.06

• NUUO

- Version: v6.2.0.6
- Drive Version: v4.10
- Protocol: HIKCGI

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- **Milestone**
 - Milestone Enterprise 8.1a (10.0a)
 - * Milestone Drive Version (Driver 8.3)
 - * Test HIKCGI
 - Milestone Software Version (Milestone Corporate 10.0a)
 - * Milestone Drive Version (Driver 8.3)
 - * Test HIKCGI
- **Avigilon**
 - Control Center: v5.6.2.18
 - Test: ONVIF
- **Excaqvision**
 - Version: 7.2.3
 - 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 improvements and will take effect automatically after the Date of Change. We are 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.

NOTES: 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 Products

Supported Products List (2xx2)		
Product Category	Model Number	Product Description
Mini IR Bullet	DS-2CD2022WD-I	2 MP, IR, WDR
Mini IR Bullet	DS-2CD2042WD-I	4 MP, IR, WDR
Mini IR Bullet	DS-2CD2052-I	5 MP, IR
IR Fixed Dome	DS-2CD2122FWD-I(W)(S)	2 MP, IR, Wi-Fi, WDR
IR Fixed Dome	DS-2CD2142FWD-I(W)(S)	4 MP, IR, Wi-Fi, WDR
IR Fixed Dome	DS-2CD2152F-I(W)(S)	5 MP, IR, Wi-Fi
EXIR Turret	DS-2CD2322WD-I	2 MP, IR, WDR
EXIR Turret	DS-2CD2342WD-I	4 MP, IR, WDR
EXIR Turret	DS-2CD2352(D)-I	5 MP, IR
IR Mini Dome	DS-2CD2522FWD-I(W)(S)	2 MP, IR, WDR, Wi-Fi/audio/alarm optional
IR Mini Dome	DS-2CD2542FWD-I(W)	4 MP, IR, WDR, Wi-Fi optional
IR Mini Dome	DS-2CD2552FWD-I(W)	5 MP, IR, Wi-Fi optional
VF IR Bullet	DS-2CD2622FWD-I(Z)(S)	2 MP, VF lens, IR, audio/alarm optional
VF IR Bullet	DS-2CD2642FWD-I(Z)(S)	4 MP, VF lens, IR, audio/alarm optional
VF IR Bullet	DS-2CD2652F(D)-I(Z)(S)	5 MP, VF lens, IR, audio/alarm optional
VF IR Dome	DS-2CD2722FWD-I(Z)(S)	2 MP, VF lens, IR, audio/alarm optional
VF IR Dome	DS-2CD2742FWD-I(Z)(S)	4 MP, VF lens, IR, audio/alarm optional
VF IR Dome	DS-2CD2752F-I(Z)(S)	5 MP, VF lens, IR, audio/alarm optional
EXIR Bullet	DS-2CD2T22WD-I3/I5/I8	2 MP, IR, WDR
EXIR Bullet	DS-2CD2T42WD-I3/I5/I8	4 MP, IR, WDR
EXIR Bullet	DS-2CD2T52-I3/I5/I8	5 MP, IR
PT Dome	DS-2CD2F12FWD-I(W)(S)Z	1.3 MP, IR, WDR, PT, VF lens
PT Dome	DS-2CD2F22FWD-I(W)(S)	2 MP, IR, WDR, PT, Wi-Fi/audio/alarm optional
PT Dome	DS-2CD2F42FWD-I(W)(S)	4 MP, IR, WDR, PT, Wi-Fi/audio/alarm optional
PT Dome	DS-2CD2F52F-I(W)(S)	5 MP, IR, PT, Wi-Fi/audio/alarm optional

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Supported Products List (xxx0)		
Product Category	Model Number	Product Description
Mini IR Bullet	DS-2CD2010-I	1.3 MP, IR
Mini IR Bullet	DS-2CD2010F-I(W)	1.3 MP, IR, Wi-Fi
Mini IR Bullet	DS-2CD2020-I	2 MP, IR
Mini IR Bullet	DS-2CD2020F-I(W)	2 MP, IR, Wi-Fi
IR Fixed Dome	DS-2CD2110F-I(W)(S)	1.3 MP, IR
IR Fixed Dome	DS-2CD2120F-I(W)(S)	2 MP, IR
IR Cube	DS-2CD2410F-I(W)	1 MP, IR, Wi-Fi optional
IR Cube	DS-2CD2420F-I(W)	2 MP, IR, Wi-Fi optional
Mini Dome	DS-2CD2510F	1.3 MP
Mini Dome	DS-2CD2520F	2 MP
VF IR Bullet	DS-2CD2610F-I(Z)(S)	1.3 MP, VF lens, IR, audio/alarm optional
VF IR Bullet	DS-2CD2620F-I(Z)(S)	2 MP, VF lens, IR, audio/alarm optional
VF IR Dome	DS-2CD2710F-I(Z)(S)	1.3 MP, VF lens, IR, audio/alarm optional
VF IR Dome	DS-2CD2720F-I(Z)(S)	2 MP, VF lens, IR, audio/alarm optional
Box Camera	DS-2CD2810F	1.3 MP, box camera
Box Camera	DS-2CD2820F	2 MP, box camera
EXIR Bullet	DS-2CD2T10-I3/I5/I8	1.3 MP, EXIR bullet
EXIR Bullet	DS-2CD2T20-I3/I5/I8	2 MP, EXIR bullet
IR Mini PT	DS-2CD2Q10FD-IW	1 MP, Wi-Fi
Pinhole	DS-2CD2D14WD	1 MP
Alarm Cube	DS-2CD2C10F-IW	1 MP, Wi-Fi
IR Dome	DS-2CD6510-I(O)	1.3 MP, IR, audio/alarm optional

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Supported Products List (4xx2, 4xx4)

Product Category	Model Number	Product Description
Box Camera	DS-2CD4012F-(A)(P)	1.3 MP, 60 fps, ABF optional, Wi-Fi optional
Box Camera	DS-2CD4012FWD-(A)(P)	1.3 MP, WDR, ABF optional, Wi-Fi optional
Box Camera	DS-2CD4024F-(A)(P)	2 MP, ABF optional, Wi-Fi optional
Box Camera	DS-2CD4032FWD-(A)(P)	3 MP, WDR, ABF optional, Wi-Fi optional
IR Indoor Dome	DS-2CD4112F-I(Z)	1.3 MP, 60 fps, motorized VF lens optional
IR Indoor Dome	DS-2CD4112FWD-I(Z)	1.3 MP, WDR, motorized VF lens optional
IR Indoor Dome	DS-2CD4124F-I(Z)	1.3 MP, motorized VF lens optional
IR Indoor Dome	DS-2CD4132FWD-I(Z)	1.3 MP, WDR, motorized VF lens optional
IR Bullet	DS-2CD4212F-I(Z)(S)(H)	1.3 MP, motorized VF lens optional, heater optional
IR Bullet	DS-2CD4212FWD-I(Z)(S)(H)	1.3 MP, WDR, motorized VF lens optional, heater optional
IR Bullet	DS-2CD4224F-I(Z)(S)(H)	2 MP, motorized VF lens optional, heater optional
IR Bullet	DS-2CD4232FWD-I(Z)(S)(H)	3 MP, WDR, motorized VF lens optional, heater optional
IR Outdoor Dome	DS-2CD4312F-I(Z)(S)(H)	1.3 MP, motorized VF lens optional, heater optional
IR Outdoor Dome	DS-2CD4312FWD-I(Z)(S)(H)	1.3 MP, WDR, motorized VF lens optional, heater optional
PTZ Outdoor Dome	DS-2CD4312F-PTZ	1.3 MP, PTZ outdoor dome
IR Outdoor Dome	DS-2CD4324F-I(Z)(S)(H)	2 MP, motorized VF lens optional, heater optional
PTZ Outdoor Dome	DS-2CD4324F-PTZ	2 MP, PTZ outdoor dome
IR Outdoor Dome	DS-2CD4332FWD-I(Z)(S)(H)	3 MP, WDR, motorized VF lens optional, heater optional
PTZ Outdoor Dome	DS-2CD4332FWD-PTZ	3 MP, PTZ outdoor dome
Covert Camera	DS-2CD6412FWD	1.3 MP, WDR

Supported Products List (xx26, xx24FWD)

Product Category	Model Number	Product Description
Box Camera	DS-2CD4026FWD-(A)(P)	Darkfighter, 120 dB
Indoor Dome	DS-2CD4126FWD-IZ	Darkfighter, 120 dB
Outdoor Dome	DS-2CD4526FWD-IZ(H)	Darkfighter, 120 dB
Outdoor Bullet	DS-2CD4626FWD-IZ(H)	Darkfighter, 120 dB
Outdoor Bullet	DS-2CD4A26FWD-IZ(H)(S)	Darkfighter, 120 dB
Box Camera	DS-2CD6026FHWD-(A)(P)	2 MP, 60 fps, Darkfighter, ABF optional
Intelligent Camera	iDS-2CD6024FWD/(B/F)	2 MP, intelligent
Intelligent Camera	iDS-2CD6124FWD-IZ/(H/C/B/F)	2 MP, intelligent
Outdoor Bullet	DS-2CD6226FWD-IZ(H)(S)	Darkfighter, 2 MP
Intelligent Camera	iDS-2CD6412FWD/C	People counting

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Supported Products List (4XX5)

Product Category	Model Number	Product Description
Box Camera	DS-2CD4025FWD-(A)(P)	Lightfighter, 2 MP, WDR
Box Camera	DS-2CD4035F-(A)(P)	3 MP
Box Camera	DS-2CD4035FWD-(A)(P)	3 MP, WDR
Box Camera	DS-2CD4065F-(A)(P)	6 MP
Box Camera	DS-2CD4085F-(A)(P)	8 MP
Box Camera	DS-2CD40C5F-(A)(P)	12 MP
Indoor Dome	DS-2CD4125FWD-IZ	Lightfighter, 2 MP, WDR
Indoor Dome	DS-2CD4135F-IZ	3 MP
Indoor Dome	DS-2CD4135FWD-IZ	3 MP, WDR
Indoor Dome	DS-2CD4165F-IZ	6 MP
Indoor Dome	DS-2CD4185F-IZ	8 MP
Indoor Dome	DS-2CD41C5F-IZ	12 MP
Outdoor Dome	DS-2CD4525FWD-IZ(H)	Lightfighter, 2 MP, WDR
Outdoor Dome	DS-2CD4535F-IZ(H)	3 MP
Outdoor Dome	DS-2CD4535FWD-IZ(H)	3 MP, WDR
Outdoor Dome	DS-2CD4565F-IZ(H)	6 MP
Outdoor Dome	DS-2CD4585F-IZ(H)	8 MP
Outdoor Dome	DS-2CD45C5F-IZ(H)	12 MP
Outdoor Bullet	DS-2CD4625FWD-IZ(H)(S)	Lightfighter, 2 MP, WDR
Outdoor Bullet	DS-2CD4635F-IZ(H)(S)	3 MP
Outdoor Bullet	DS-2CD4635FWD-IZ(H)(S)	3 MP, WDR
Outdoor Bullet	DS-2CD4665F-IZ(H)(S)	6 MP
Outdoor Bullet	DS-2CD4685F-IZ(H)(S)	8 MP
Outdoor Bullet	DS-2CD46C5F-IZ(H)(S)	12 MP
IR Bullet	DS-2CD4A25FWD-IZ(S)	Lightfighter, 2 MP, WDR
IR Bullet	DS-2CD4A35F-IZ(S)	3 MP
IR Bullet	DS-2CD4A35FWD-IZ(S)	3 MP, WDR
IR Bullet	DS-2CD4A65F-IZ(S)	6 MP
IR Bullet	DS-2CD4A85F-IZ(S)	8 MP
IR Bullet	DS-2CD4AC5F-IZ(S)	12 MP

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Supported Products List (4-Line Lite Series, 20x Model)

Product Category	Model Number	Product Description
Outdoor Bullet	DS-2CD4A26EFDW-IZ(H)(S)	Lite Series, 2 MP, VF, WDR
Box Camera	DS-2CD4026EFDW	Lite Series, 2 MP, VF, WDR
Indoor Dome	DS-2CD4126EFDW-IZ(H)(S)	Lite Series, 2 MP, VF, WDR
Outdoor Bullet	DS-2CD4B16EFDW-IZ(S)	Darkfighter Lite, 1.3 MP, VF lens
Outdoor Bullet	DS-2CD4B26EFDW-IZ(S)	Darkfighter Lite, 2 MP, VF lens
Outdoor Dome	DS-2CD4D16EFDW-IZ(S)	Darkfighter Lite, 1.3 MP, VF lens
Outdoor Dome	DS-2CD4D26EFDW-IZ(S)	Darkfighter Lite, 2 MP, VF lens
Outdoor Bullet	DS-2CD4A24EFDW-IZ(H)(S)(B)	20x lens, 2 MP, heater