

## Network Camera Firmware

Version: V5.4.5

Release Note

(2017-01-24)

|                                       |   |  |
|---------------------------------------|---|--|
| <b>Firmware<br/>Basic Information</b> | Firmware Version:                                     | V5.4.5                                   |
|                                       | SDK Version:  | V7.3.2.74                                |
|                                       | Play Library (PlayCtrl.dll)                           | V7.3.0.74                                |
|                                       | Encapsulation Library<br>(SystemTransform.dll)        | V2.5.1.14                                |
|                                       | RTSP Communication Library<br>(StreamTransClient.dll) | V1.1.3.6                                 |
|                                       | Voice intercom library<br>(AudioIntercom.dll)         | V1.4.0.1                                 |
|                                       | iVMS-4200   | Version 4200 V2.5.5.103<br>build20170119 |
|                                       | IE Client version                                     | V3.0.6.1 build170117                     |

### Hikvision Firmware V5.4.5 Features

*\*for all IPC platforms*

#### 1. New Features

- HiDDNS and IPServer are no longer supported
- Add Hik-Connect function, support Hik-Connect Domain Name and alarm push service.
- LBS address for Hik-Connect function is dev.hik-connect.com.
- Hik-Connect function is disabled as default.
- Verification code is removed from device label and verification code information is removed from QR code.
- During device activation or enabling Hik-Connect function for the first time, verification code should be created or changed by customers. (Rules: 6 to 12 letters (a to z, A to Z) or numbers (0 to 9), Case Sensitive.)

- Add Open Source Software Licenses on web browser ->System->System Settings->>About Device.

## 2. Improved Features

- Admin account user is able to enable/disable Hik-Connect service. Admin account user is able to view verification code for Hik-Connect service on web browser or iVMS-4200.
- Time zones of particular areas are updated: Istanbul is changed to GMT+3:00 and Novosibirsk is changed to GMT+7:00.
- In DST configuration of French web page, the typo of Tuesday and Thursday is corrected.
- Intrusion detection and line crossing detection alarm types are available on Hik-Connect service.

**Note:** Intrusion detection and line crossing detection rules should be configured on web browser, iVMS client or NVR after enabling Alarm Notification on Hik-Connect APP.

### *\*for 2XX2 Network Cameras (V5.4.5 build170123)*

- The Day/Night mode switches based on the result of image algorithm rather than photoresistance.

### *\*for 2XX0 Network Cameras (V5.4.5 build170123)*

- The Day/Night mode switches based on the result of image algorithm rather than photoresistance.
- Remove HiDDNS and IPServer.
- Add Hik-Connect function, support Hik-Connect Domain Name and alarm push service.
- LBS address for Hik-Connect function is change to dev.hik-connect.com.
- Hik-Connect function is disabled as default.
- Verification code is removed from device label and verification code information is removed

from QR code.

- During device activation or enabling Hik-Connect function for the first time, verification code need to be created or changed by customers. (Rules: 6 to 12 letters (a to z, A to Z) or numbers (0 to 9), Case Sensitive.)
- Add Open Source Software Licenses on web browser ->System -> System Settings -> About Device.
- Support H.264+, which is not supported with ROI/SVC/Constant stream simultaneously.
- SVC is no longer support

***\*for 2XX2(F)WD, 2X52, 64X4 Network Cameras (V5.4.5 build170124)***

- Live view performance of DS-2CD6424FWD-10/20/30 is improved.
- When WDR is on, black image would not occur to DS-2CD6414FWD-10/20/30.
- Single object would not trigger multiple line crossing or intrusion alarms on iVMS-4200.

***\*for 4X26FWD ANPR Network Cameras (V5.4.5 build170123)***

- The firmware is only applied to the specified models with /P.
- Supported countries of integrating Hikvision LPR library : Italy, Netherlands, England, Ireland, Germany, France, Singapore, Malaysia, Indonesia, Australia, Vietnam, Philippines, HongKong, Macao, Taiwan, Brazil, Ecuador, Columbia, Chile, Peru, South Africa, Turkey.
- Newly added 2 options of license plate recognition mode: "City Street" and "Alarm Input".
- Newly support the mode of "Alarm Input" in the License Plate Settings to trigger the license plate recognition and capture.
- Support to set the size of license plate which ranges from 64 to 2048kb.
- Modify the interface of Arming Schedule and Linkage Method. It is necessary to match the direction for linkage.

- 5200 will trigger the LPR library to capture the license plate and upload the result by SDK.
- Support to export vehicle information including License Plate Number, Capture Time, Country, Lane, Direction and Validity with excel format in the live view browser.
- Support to upload and display the vehicle recognition direction which includes Forward and Reverse in real-time.
- Support to upload and display the validity.
- Support FTP uploading pictures and editing the names. It can choose the Default or Custom mode when naming the pictures. The length of name should be within 95 characters.
- Support to display the license plate information in real-time.
- Support to export the Blacklist & Whitelist.
- Remove the Smart Event.
- Support barrier gate controlling SDK in IVMS-5200.
- Support ANR function for vehicle information.
- Support the non-photoresistance day and night switch.
- Normal and Road scenarios are optional and they use different image parameters for image configuration.
- ISAPI and ONVIF support to upload the ID information of lanes and small image of license plate.
- Newly support to search the pictures via Plate No.
- For DS-2CD4A26FWD-LZS/P, it can realize the timed switch of fill light.

## Compatibility Update

- **ONVIF version: V2.4, official test tool version: V1601;**
- **NUUO:**
  1. Version: V6.9.0, drive version: V5.2;
  2. Protocol: HIKCGI
- **Milestone:**
  1. Milestone Enterprise 8.1a(10.1a), Milestone Corporate 10.2a
  2. Milestone drive version : Device Pack 8.8
- **Avigilon:**
  1. Control Center: V5.10.4.6;
  2. Test ONVIF.
- **Excaqvision:**
  1. Version: 7.2.3
  2. Protocol: HIKCGI, ONVIF
- **Genetec Omnicast:**

Version: 4.8 SR8
- **Security Center:**

Version: 5.5 SR3
- **Network Keyboard:**

DS-1100K V2.4.0 build150827
- **Series port keyboard:**

DS-1004K V1.2.0
- **Tested NVR/DVR accessing:**
  1. E series: DS-96128N-E16 (V3.0.4\_150616) (This series NVRs has been discontinued and the future version will not test)
  2. F series: DS-96128N-F16 (V3.2.6 160411)
  3. E series: DS-7732N-E4/16P (V3.4.91)
  4. G series: DS-7608N-G2/4P (V3.4.1 build 151225)
  5. K1 series: DS-7816N-K1 (V3.4.90)
  6. I8 series: DS-8664N-I8 (DS-7632N-I2/16P)
  7. K series: V3.4.91
  8. DS-7608N-SHT (V3.0.17\_150804)
  9. Netra DVR: DS-9016HF-ST (V3.4.3)
  10. DS-7616N-SE (V3.0.15\_150528)
  11. F series: DS-9664N-F8/I (V3.3.4\_150715)
  12. Channel NVR: DS-7832N-K2 ( V3.3.9\_151228 )

## 13. 96000N-I series: V3.6.0

### 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 (2XX2)

| 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                                  |
| Mini IR Bullet   | DS-2CD2012F-I(W)    | 1.3MP, IR, Wi-Fi                         |
| Mini IR Bullet   | DS-2CD2022F-I(W)    | 2MP, IR, Wi-Fi                           |
| Mini IR Bullet   | DS-2CD2032F-I(W)    | 3MP, IR, Wi-Fi                           |
| IR Fixed Dome    | DS-2CD2112F-I(S)(W) | 1.3MP, IR                                |
| IR Fixed Dome    | DS-2CD2122F-I(S)(W) | 2MP, IR                                  |
| IR Fixed Dome    | DS-2CD2132F-I(S)(W) | 3MP, 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-2CD2622F-I(S)    | 2MP, 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-2CD2722F-I(S)    | 2MP, 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 (XXX0)

| Product Category | Model Number        | Product Description                      |
|------------------|---------------------|--|
| Mini IR Bullet   | DS-2CD2010-I        | 1.3MP, IR                                |
| Mini IR Bullet   | DS-2CD2010F-I(W)    | 1.3MP, IR, Wi-Fi                         |
| Mini IR Bullet   | DS-2CD2020-I        | 2MP, IR                                  |
| Mini IR Bullet   | DS-2CD2020F-I(W)    | 2MP, IR, Wi-Fi                           |
| IR Fixed Dome    | DS-2CD2110F-I(W)(S) | 1.3MP, IR                                |
| IR Fixed Dome    | DS-2CD2120F-I(W)(S) | 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(Z)(S) | 1.3MP, VF lens, IR, Audio/Alarm optional |
| VF IR Bullet     | DS-2CD2620F-I(Z)(S) | 2MP, VF lens, IR, Audio/Alarm optional   |
| VF IR Dome       | DS-2CD2710F-I(Z)(S) | 1.3MP, VF lens, IR, Audio/Alarm optional |
| VF IR Dome       | DS-2CD2720F-I(Z)(S) | 2MP, VF lens, IR, Audio/Alarm optional   |
| Box Camera       | DS-2CD2810F         | 1.3MP, box camera                        |
| Box Camera       | DS-2CD2820F         | 2MP, box camera                          |
| EXIR Bullet      | DS-2CD2T10-I3/I5/I8 | 1.3MP, EXIR Bullet                       |
| EXIR Bullet      | DS-2CD2T20-I3/I5/I8 | 2MP, EXIR Bullet                         |
| IR Mini PT       | DS-2CD2Q10FD-IW     | 1MP, Wi-Fi                               |
| Pinhole          | DS-2CD2D14WD        | 1MP                                      |
| IR Dome          | DS-2CD6510-I(O)     | 1.3MP, IR, Audio/Alarm optional          |



## Supported Product List (1X31, 1X41, 2XX2(F)WD, 2X52, 64X4)

| Product Category | Model Number            | Product Description                         |
|------------------|-------------------------|---|
| Mini IR Bullet   | DS-2CD2022WD-I          | 2MP, IR, WDR                                |
| Mini IR Bullet   | DS-2CD2042WD-I          | 4MP, IR, WDR                                |
| Mini IR Bullet   | DS-2CD2052-I            | 5MP, IR                                     |
| IR Fixed Dome    | DS-2CD2122FWD-I(W)(S)   | 2MP, IR, Wi-Fi, WDR                         |
| IR Fixed Dome    | DS-2CD2142FWD-I(W)(S)   | 4MP, IR, Wi-Fi, WDR                         |
| IR Fixed Dome    | DS-2CD2152F-I(W)(S)     | 5MP, IR, Wi-Fi                              |
| EXIR Turret      | DS-2CD2322WD-I          | 2MP, IR, WDR                                |
| EXIR Turret      | DS-2CD2342WD-I          | 4MP, IR, WDR                                |
| EXIR Turret      | DS-2CD2352-I            | 5MP, IR                                     |
| IR Cube          | DS-2CD2422FWD-IW        | 2MP, IR, WDR                                |
| IR Cube          | DS-2CD2442FWD-IW        | 4MP, IR, WDR                                |
| IR Cube          | DS-2CD2452F-IW          | 5MP, IR                                     |
| IR Mini Dome     | DS-2CD2522FWD-(I)(W)(S) | 2MP, IR, WDR, Wi-Fi/Audio/Alarm optional    |
| IR Mini Dome     | DS-2CD2542FWD-I(W)      | 4MP, IR, WDR, Wi-Fi optional                |
| IR Mini Dome     | DS-2CD2552FWD-I(W)      | 5MP, IR, Wi-Fi optional                     |
| VF IR Bullet     | DS-2CD2622FWD-I(Z)(S)   | 2MP, VF lens, IR, Audio/Alarm optional      |
| VF IR Bullet     | DS-2CD2642FWD-I(Z)(S)   | 4MP, VF lens, IR, Audio/Alarm optional      |
| VF IR Bullet     | DS-2CD2652F(D)-I(Z)(S)  | 5MP, VF lens, IR, Audio/Alarm optional      |
| VF IR Dome       | DS-2CD2722FWD-I(Z)(S)   | 2MP, VF lens, IR, Audio/Alarm optional      |
| VF IR Dome       | DS-2CD2742FWD-I(Z)(S)   | 4MP, VF lens, IR, Audio/Alarm optional      |
| VF IR Dome       | DS-2CD2752F-I(Z)(S)     | 5MP, VF lens, IR, Audio/Alarm optional      |
| EXIR Bullet      | DS-2CD2T22WD-I3/I5/I8   | 2MP, IR, WDR                                |
| EXIR Bullet      | DS-2CD2T42WD-I3/I5/I8   | 4MP, IR, WDR                                |
| EXIR Bullet      | DS-2CD2T52-I3/I5/I8     | 5MP, IR                                     |
| PT Dome          | DS-2CD2F12FWD-I(W)(S)Z  | 1.3MP, IR, WDR, PT, VF lens                 |
| PT Dome          | DS-2CD2F22FWD-I(W)(S)   | 2MP, IR, WDR, PT, WiFi/Audio/Alarm optional |
| PT Dome          | DS-2CD2F42FWD-I(W)(S)   | 4MP, IR, WDR, PT, WiFi/Audio/Alarm optional |
| PT Dome          | DS-2CD2F52F-I(W)(S)     | 5MP, IR, PT, WiFi/Audio/Alarm optional      |

|           |                            |       |
|-----------|----------------------------|-------|
| Separated | DS-2CD6414FWD(-10,-20,-30) | 1.3MP |
| Separated | DS-2CD6424FWD(-10、-20、-30) | 2MP   |
| Mobile    | DS-2XM6612DFWD-I           | 1.3MP |
| Mobile    | DS-2XM6622DFWD-I           | 2MP   |

## Supported Product List (4X26FWD/P)

| Product Category        | Model Number                   | Product Description                        |
|-------------------------|--------------------------------|--|
| Box Camera with housing | DS-2CD4026FWD/P-IRA(11-40mm)   | 2MP, WDR, IR                               |
| Box Camera with housing | DS-2CD4026FWD/P-INRA(11-40mm)  | 2MP, WDR, IR                               |
| Box Camera with housing | DS-2CD4026FWD/P-HIRA(11-40mm)  | 2MP, WDR, IR, Heater                       |
| Box Camera with housing | DS-2CD4026FWD/P-IR5(3.8-16mm)  | 2MP, WDR, IR                               |
| Box Camera with housing | DS-2CD4026FWD/P-L(7-33mm)      | 2MP, WDR, LED light                        |
| Box Camera with housing | DS-2CD4026FWD/P-L(11-40mm)     | 2MP, WDR, LED light                        |
| Box Camera with housing | DS-2CD4026FWD/P-L(3.8-16mm)    | 2MP, WDR, LED light                        |
| IR Bullet               | DS-2CD4A26FWD-IZ/P(2.8-12mm)   | 2MP, WDR, IR, Motorized VF lens            |
| IR Bullet               | DS-2CD4A26FWD-IZ/P(8-32mm)     | 2MP, WDR, IR, Motorized VF lens            |
| IR Bullet               | DS-2CD4A26FWD-IZS/P(2.8-12mm)  | 2MP, WDR, IR, Motorized VF lens            |
| IR Bullet               | DS-2CD4A26FWD-IZS/P(8-32mm)    | 2MP, WDR, IR, Motorized VF lens            |
| IR Bullet               | DS-2CD4A26FWD-IZHS/P(2.8-12mm) | 2MP, WDR, IR, Motorized VF lens, Heater    |
| IR Bullet               | DS-2CD4A26FWD-IZHS/P(8-32mm)   | 2MP, WDR, IR, Motorized VF lens, Heater    |
| Bullet with LED light   | DS-2CD4A26FWD-LZS/P(2.8-12mm)  | 2MP, WDR, IR, Motorized VF lens, LED light |
| Bullet with LED light   | DS-2CD4A26FWD-LZS/P(8-32mm)    | 2MP, WDR, IR, Motorized VF lens, LED light |
| IR Bullet               | DS-2CD4626FWD-IZ/P(2.8-12mm)   | 2MP, WDR, IR, Motorized VF lens            |
| IR Bullet               | DS-2CD4626FWD-IZHS/P(2.8-12mm) | 2MP, WDR, IR, Motorized VF lens, Heater    |

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