



What's New in This Release

This camera handler release provides integration and improvements for the following cameras:

- This camera handler supports new feature of Saturation for Hikvision Cameras
- Support for the following new Hikvision Cameras
- Camera pack version: 4.3.0.2000016

| Model | CODEC Supported | Audio | I/O | VideoEdge Versions | Certification |
|------------------|-----------------|-------|-----|-----------------------|--------------------|
| IP Cameras | | | | | |
| DS-2CD753F-E | H.264, MJPEG | Yes | 2/0 | 4.3 | Tested & Certified |
| DS-2CD853F-E | H.264, MJPEG | Yes | 1/0 | 4.3 | Tested & Certified |
| DS-2CD793PF-E | H.264, MJPEG | Yes | 2/0 | 4.3 | Tested & Certified |
| DS-2CD7264FWD-EZ | H.264, MJPEG | No | 0/0 | 4.3 | Tested & Certified |
| Encoders | | - | | · | |
| DS-6708HFI | H.264, MJPEG | Yes | 8/0 | 4.3 | Tested & Certified |







Hikvision Corp

VideoEdge camera handler is fully integrated with the Hikvision line of IP cameras. Hikvision, generally, doesn't change the core API interface for their cameras. VideoEdge camera handler is based on Hikvision core API package version HIK_IMPD_V1_5_9. As Hikvision continue to release new cameras there may be instances where specific Hikvision cameras are not listed in the available camera pack. A generic Hikvision camera handler is available for these cameras.

Down below list cameras/encoders has been certified by this release:

| Model | CODEC Supported | Audio | I/O | VideoEdge Versions Supported | Certification |
|------------------|-----------------|-------|-----|---------------------------------|--------------------|
| IP Cameras | | | | | |
| DS-2CD853F-E | H.264, MJPEG | Yes | 1/0 | 4.3 | Tested & Certified |
| DS-2CD793PF-E | H.264, MJPEG | Yes | 2/0 | 4.3 | Tested & Certified |
| DS-2CD7264FWD-EZ | H.264, MJPEG | No | 0/0 | 4.3 | Tested & Certified |
| Encoders | | • | | | |
| DS-6708HFI | H.264, MJPEG | Yes | 8/0 | 4.3 | Tested & Certified |

Down below list cameras/encoders was suggested to be supported according to Hikvision's advice, but not under certified:

IP cameras:

Standard Network Camera DS-2CD893PF(NF)-E(W) DS-2CD893PFWD(NFWD)-E(W) DS-2CD833F-E(W) DS-2CD8233F- $\dot{E}I(\dot{Z})(S)$ DS-2CD8433F-E(I) DS-2CD793PF(NF)-E(I)(Z) DS-2CD793PFWD(NFWD)-E(I)(Z) DS-2CD733F-E(I)(\hat{Z}) DS-2CD7293PF(NF)-E(I)Z(H)(S)DS-2CD7293PFWD(NFWD)-E(I)Z(H)(S) DS-2CD7233F-E(I)Z(H)(S)DS-2CD8133F-E(I)(W) DS-2CD7133-E 1.3MP High-definition Network Camera DS-2CD864FWD-E(W) DS-2CD864FWD-FC DS-2CD864F-E DS-2CD864-EI3(EI5) DS-2CD2012-I DS-2CD2112-(I) DS-2CD8464F-E(I) DS-2CD863PF(NF)-E(W) DS-2CD8264FWD-EI(Z)(S) DS-2CD8264F-EI(Z)(S) DS-2CD764FWD-E(I)(Z)DS-2CD764F-E(I)(Z)DS-2CD763PF(NF)-E(I)(Z)







DS-2CD7263PF(NF)-E(I)Z(H)(S) DS-2CD7264FWD-E(I)Z(H)(S)DS-2CD7164-E 2MP High-definition Network Camera DS-2CD877BF DS-2CD876BF DS-2CD876MF DS-2CD855F-E DS-2CD855-EI3(EI5) DS-2CD855F-IR5 DS-2CD855F-FC DS-2CD8255F-EI(Z)(S) DS-2CD853F-E(W) DS-2CD8253F-ÈI(Z)(S) DS-2CD755F-E(I)(Z)DS-2CD7255F- $\dot{E}(I)\dot{Z}(H)(S)$ DS-2CD754FWD-E(I)(Z)DS-2CD753F-E(I)(Z) DS-2CD7253F- $\dot{E}(\dot{I})\dot{Z}(H)(S)$ DS-2CD8153F-E(I)(W) DS-2CD7153-E 3MP High-definition Network Camera DS-2CD854F-E(W) DS-2CD854FWD-E DS-2CD8254F-EI(Z)(S) DS-2CD8254FWD-EI(Z)(S) DS-2CD754F-E(I)(Z)DS-2CD7254F- $\dot{E}(\dot{I})\dot{Z}(H)(S)$ DS-2CD7254FWD-E(I)Z(H)(S) 5MP High-definition Network Camera DS-2CD883F-E(W) DS-2CD8283F- $\dot{E}I(\dot{Z})(S)$ DS-2CD783F-E(I)(Z) DS-2CD7283F- $\dot{E}(I)\dot{Z}(H)(S)$ DS-6601HCI

Encoders:

DS-6602HCI DS-6604HCI **DS-6601HFI DS-6602HFI DS-6604HFI**

DS-6601HCI-SATA DS-6602HCI-SATA

DS-6604HCI-SATA

DS-6601HFI-SATA

DS-6602HFI-SATA DS-6604HFI-SATA

DS-6708HFI

DS-6708HWI







Supported Key Functions

- · Video Streaming Single and Dual
 - Video Codec H.264, MJPEG
- Audio Streaming
 - · Audio codec supported depends on camera functionality
- PT7
- Dry Contact Events
- Query Device
- · Reboot Device

Supported Camera API & Models

| Model | | Minimum Camera Firmware Version |
|--|-----|---------------------------------|
| P Cameras DS-2CD753F-E, DS-2CD853F-E, DS-2CD793PF-E, 2CD7264FWD-EZ | DS- | V4.1.1 build130507 |
| Encoders DS-6708HFI, DS-6708HWI | | V1.0.0 build130509 |

Note

1 The Hikvision camera handler supports Generic camera for those unlisted models. If one camera is not in the supported list but compatible with the Hikvision CGI interface "HIK_IMPD_V1_5_9", it can be supported as a Generic camera.

Required Network Ports

- · Port 443 is for HTTPS
- · Port 554 is for RTSP

Default Username & Password

Username: adminPassword: 12345

Camera Serial Number

NVR will use the camera's MAC address as the camera serial number.







Video Stream Feature

The specific Video stream feature characteristics by model families are:

| Model Family | Video Stream Feature |
|---|--------------------------------|
| DS-2CD753F-E DS-2CD853F-E DS-2CD793PF-E DS-2CD7264FWD-EZ | Dual stream: H.264 + MJPEG |
| DS-6708HFI, DS-6708HWI | Dual stream: H.264 + MJPEG |
| Generic | (Depends on camera capability) |

Audio Stream Feature

The specific Audio stream feature characteristics by model families are:

| Model Family | Audio Stream Feature |
|---|--------------------------------|
| DS-2CD753F-E DS-2CD853F-E DS-2CD793PF-E | G711mulaw |
| DS-2CD7264FWD-EZ | No Audio |
| DS-6708HFI, DS-6708HWI | G711mulaw |
| Generic | (Depends on camera capability) |







Event Stream Feature

Handler uses HTTPS polling mode to get the dry contact status. The maximum number of dry contact events supported by each camera family:

| Model | Max # of Dry Contact Supported |
|------------------------|---------------------------------|
| DS-2CD753F-E | 2 |
| DS-2CD853F-E | |
| DS-2CD793PF-E | |
| DS-2CD7264FWD-EZ | 0 |
| DS-6708HFI, DS-6708HWI | 8 |
| Generic | Dynamically acquire from camera |

Special Points

- 1. When add camera into NVR, users should restore camera to factory default through camera web page.
- 2. Users should use NVR configure page to set camera codec parameters including FPS, resolution, quality after add camera to NVR. Users can use camera web page to set other codec properties (bitrate, bitrate control type, key frame interval, etc.).
- 3. Before use Events (Dry contacts) function, users should configure alarm input arming schedule on camera's web page (for example, configure schedule to 7x24 hrs.).
- 4. Users must enable https on encoder web page before add the encoder to NVR.

Limitations

| Model | Limitations |
|-------|---|
| All | Due to the performance limitation of the MJPEG / MPEG4 / H264 models, while streaming MJPEG and H264 or MPEG4 simultaneously, the camera might not delive the requested frame rate. Please refer to the Hikvision product catalog for details. QuickTime player cannot play the MPEG4 stream due to the MPEG4 stream is generated in Advanced simple profile Users change dry contact active state will cause camera/encoder reboot. There isn't obvious change of image when quality is changed from the lowest to highest The volume of audio displays incorrectly, it always displays 100 although it is set to value not 100. |
| | Change camera's password via webGUI, but stream can still be played on Victor |







| IP Cameras | Camera will reboot after codec changed, reboot time needs 45 second, while changing resolution, quality, GOP or FPS does not need to reboot camera. |
|--------------------------------|---|
| DS-2CD853F-E | When set to max resolution and max FPS, the H264 video latency of DS-2CD853F-E is about 400ms |
| DS-2CD853F-E, DS- 2CD753F-E | h264's max FPS are down below: 50Hz(PAL): 12.5 fps(1600x1200) 12.5 fps(1600x912) 25 fps(1280x960) 25 fps(1280x720) 60Hz(NTSC): 15 fps(1600x1200)15 fps(1600x912)25 fps(1280x960)25 fps(1280x720) MJPEG's max FPS are down below: 50Hz(PAL):12.5fps(704x480) 12.5fps(352x240) 12.5fps(320x240) 60Hz(NTSC):15fps(704x480) 15fps(352x240) 15fps(320x240). Resolution set to 1600x912, 1600x1200 Case 1: VideoStand 50Hz(PAL), users can not set FPS to 15, 16, 18, 20, 22 Case 2: VideoStand 60Hz(NTSC), users can not set FPS to 16, 18, 20, 22. Due to camera does not support. |
| DS-2CD7264FWD-EZ | The value of WDR is incorrectly on NVR and camera web GUI, when set X0~X5, it will display X0 both on NVR and camera web GUI, and if set X6~X9, it will display X6. |
| DS-6708HFI | The default values will never change back once the value has been changed for Image Settings on NVR client. (Include Brightness, Contrast, hue, Saturation) When encoder connect to PEL-CO analog cameras. The pattern will not work and progress bar will never be disappear if edit an existed pattern When encoder connect to PEL-CO analog cameras. The Iris will change to auto setting when do ptz action It's interactive between the values of Brightness, Contrast, hue, Saturation, when change one of them, the others will changed accordingly. |

Known Issues

| Model | Known Issues |
|--------------------------------|---|
| ALL | The auto-iris button on victor client does not have any effect. The searched audio still play when shift to other video view as top window |
| DS-2CD853F-E, DS- 2CD753F-E | 3. For H264 codec, when resolution set to 1600x912, 1600x1200, FPS set to 12, real FPS will reach 12.5. |
| DS-2CD853F-E, DS-793PF-E | If dry contact last within 1 second, some alarm may lost in the NVR log / victor event viewer |
| DS-6708HFI, DS-6708HWI | There are missing frame (missing rate < 0.0135%). It's interactive between the values of Brightness, Contrast, hue, Saturation, when change one of them, the others will change accordingly. The video stream is break and never recovers on live view on victor client after change resolution on NVR client; Refresh the victor view can solve this issue. |

