H5 Network PanoVu Camera Firmware Version: V5.5.41 Release Note

(2020-10-20)

1. Firmware Version Information

1.1 Firmware Basic Information

PanoVu:

IPDP_H5_EN_XXX_5.5.41_200709.zip

2. Related Resource Versions

2.1 Built-in Resource Versions

(1) SDK version: HCNetSDKV6.1.5.10_build20200624
(2) Play lib (PlayCtrl.dll): V7.3.8.44
(3) iVMS 4200 client: V3.1.4.1 Build20200108
(4) Plugin: V4.0.1.0 build 200622

2.2 Protocol Versions

(1) Onvif version: 19.06
(2) ISAPI version: 2.4
(3) Ehome version: V2.0, V4.0, ISUPV5.0
(5) Hik-Connect version: V1.5.60

2.3 Version compatibility

Both 5.5.26 and 5.5.27 could upgrade to 5.5.41, also support downgrade;
For 5.5.26 and 5.5.27, it does not support to upgrade to each other.

2.4 Tested NVR

DS-96256NI-I24	V4.1.66 build200107
IDS-96128NIX-I16	V4.22.005 build 191208
DS-8664NI-I8	V4.22.005_191208
IDS-9632NIX-I8/S	V4.1.25_181028
iDS-9632NIX-I8/X	V4.22.126 build200508

3. Version Main Updates

3.1 New Features

- **Support Hik-Connect protocol:**

  Hik-Connect APP supports smart event, VCA;

  Hik-Connect xmen supports pass-through subscription, face and people density.

  Hik-Connect supports the max resolution 3840*1080 (all channels together.)

  Max bit rate: 4096Kbs

  No support 3 tracks

  Hik-Connect studio does not support panorama tracking and rapid focus configuration.

- **Panorama channels support digital WDR**

- **PTZ and panorama channel support 10 kind of image scene configuration:**

  PTZ channel supports: Indoor, Outdoor, Day, Night, Nightfall, Street, Low illumination, Custom1, Custom2, Face; Outdoor by default.

  Panorama channel supports: Indoor, Outdoor, Day, Night, Morning, Nightfall, Street, Low illumination, Custom1, Custom2; Outdoor by default.

- **VCA resource mutual exclusion:**

In System->VCA Resource：Select different VCA resource for channel 1(PTZ), channel 2, channel 3(Panorama), add mutual exclusion function for VCA resource of each channel:

1. **If channel 2 selects Smart Event, channel 3 will be ticked Smart Event by default, channel 1 could select Smart Event or Face Capture.**

2. **If channel 2 selects People density, channel 3 will be ticked People density by default, channel 1 could select Smart Event or Face Capture.**

3. **If channel 2 selects Traffic Congestion, channel 3 will be ticked Monitoring by default, channel 1 could select Smart Event.**

4. **If channel 2 selects Monitoring, channel 3 will be ticked Traffic Congestion by default, channel 1 could select Smart Event.**

All the algorithm use deep-learning, device will reboot when change VCA resource.

- **Add target filter in panorama channel:**

Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection in panorama channel, could be filtered by human, vehicle and other.

- **Support tracking takeover when PTZ smart tracking linkage by panorama channel.**

In previous version, the PTZ smart tracking linkage by panorama channel only could track the target in the view of panorama channel. Once the target is out of the view of panorama channel, the PTZ will stop tracking. In order to resolve the issue, introduce the tracking takeover function. After panoramic tracking for a period of time, the device uses the PTZ for tracking based on target detection. The PTZ channel can rotate 360 degrees and track 360 degrees. It has a wider tracking range than panoramic linkage.
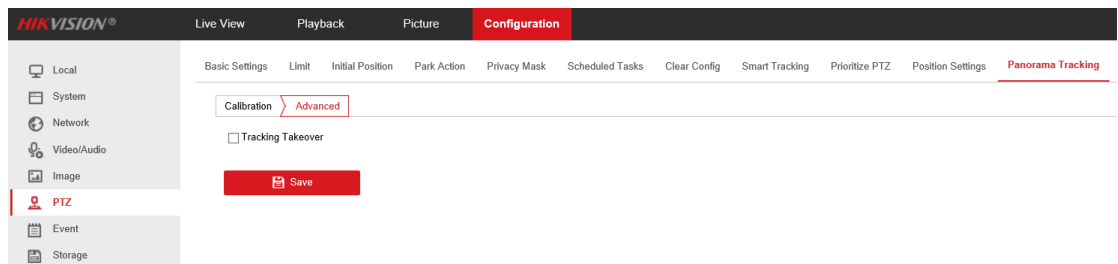
Condition: Only both of the VCA resource in PTZ channel and panorama channel are Smart Event, the device supports tracking takeover.

1. **Perimeter function in panorama channel: Intrusion Detection, Line Crossing**

Detection, Region Entrance Detection, Region Exiting Detection, this function will takeover the tracked target. Only human and vehicle could support tracking takeover, other cannot be triggered the tracking takeover. (Manual tracking also can trigger it.)

2. **In the process of takeover tracking of the PTZ path, the panoramic path will also detect and track the target. When the detailed path tracking fails due to the loss of the target, but the panoramic path does not track the interrupted target all the time, the panoramic path will regain control of the tracking target. If the conditions are met, the takeover tracking will be restarted.**

3. **Configuration: PTZ->Panorama Tracking->Advanced**

- **Support Traffic Congestion in Panorama channel.**

Traffic Congestion use to detect the congestion in polygonal areas. Congestion alerts are triggered when the percentage of vehicles in the area exceeds the sensitivity of the configuration.

3.2 Improved Features

- **Default cropping on: For 2400W device, 5520*2400 clipping is enabled by default, and the clipping frame is in the middle of the screen. The rest of the devices do not turn cropping on by default**

- **People Density function optimize:**

    1. **The alarm will only be triggered when the personnel density level of each area rises. If Target Pixel Ratio is enabled, it will trigger an alarm only if Target Pixel Ratio rises simultaneously.**

2. **In People Density->Parameters, add Low Latency and Long Distance mode in Algorithm Mode. In Low Latency mode, check out latency >300ms; In Long Distance mode, check out latency >3s.**

3. **Add pseudo-color overlay. Enable Overlay Pseudo-Color Density in People Density-Advance Configuration.**

4. **Only discrete graphics supports overlay pseudo-color, integrated graphics does not support.**

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 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.

Supported Product List (DPxxxx /T2 Series)

Product Category	Model Number
PanoVu	DS-2DP6436ZIXS-D/836/T2 (2.8mm)(海外标配)
PanoVu	DS-2DP3218ZIXS-D/836/T2 (2.8mm)(海外标配)
PanoVu	DS-2DP6436ZIXS-D/836/T2 (2.8mm)(海外中性)
PanoVu	DS-2DP3218ZIXS-D/836/T2 (2.8mm)(海外中性)
PanoVu	DS-2DP3236ZIXS-D/440/T2(2.8mm)(海外标配)
PanoVu	DS-2DP3236ZIXS-D/440/T2(2.8mm)(海外中性)
PanoVu	DS-2DP1618ZIXS-DE/440/T2(2.8mm)海外标配
PanoVu	DS-2DP2427ZIXS-DE/440/T2(2.8mm)海外标配
PanoVu	DS-2DP1618ZIXS-DE/440/T2(2.8mm)海外中性
PanoVu	DS-2DP2427ZIXS-DE/440/T2(2.8mm)海外中性
PanoVu	DS-2DP0818ZIXS-DE/440/T2(2.8mm)(海外标配)
PanoVu	DS-2DP0818ZIXS-DE/440/T2(2.8mm)(海外中性)

Note: Models in red font are newly released models.