



**Faraday_V3.120.0000000.18.R.2307
02**

Release Notes



ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

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1 Release Notes

1.1 Overview


Product model	Series 7
Version	V3.120.0000000.18.R.230702
Software package information	DH_IPC-HX7XXX-HW-Faraday_MultiLang_PN_V3.120.0000000.18.R.230702.zip DH_IPC-HX7XXX-HW-Faraday_MultiLang_NP_V3.120.0000000.18.R.230702.zip
OS requirement	None
Release date	July 20, 2023

1.2 New Features

Item	Description of New Features
Optimized the noise reduction of face snapshot	<ol style="list-style-type: none">Level parameters were changed to NR level parameters.Sharpness parameters were added. The value ranges from 0 to 100 and was set to 50 by default.
Adjusted the image ratio of snapshot cutouts	<ul style="list-style-type: none">One-inch face image: 1:1Motor vehicle cutout: 1:1Human body cutout: 1:2Non-motor vehicle cutout: 1:2
Added EPTZ	EPTZ is supported by 8-MP and 12-MP cameras (box cameras do not support this function). <ol style="list-style-type: none">EPTZ can be configured on the PTZ setting page.Four modes are supported: 1+1, 1+3, 1+3 cross, and 1+5.Linkage tracking is linked to tripwire and intrusion of IVS.Tracking duration can be set to Custom or Continue Till Object Disappears.
Updated lens calibration	2712 lens supports this function (but not if the lens is used in box cameras). <ol style="list-style-type: none">The setting page was simplified. Only LDC switch is displayed on it.Some parameters, such as correction strength and vertical and horizontal zoom, were deleted.
Added People scene and Mixed scene in Video Metadata	After the People scene is enabled, the rules for motor vehicle detection and non-motor vehicle detection cannot be added. Or if these rules have been added before, they are disabled. After the Mixed scene is enabled, the rules for motor vehicle detection and non-motor vehicle detection can be added.

Item	Description of New Features
	The People scene is mainly used for the detection of people in indoor environments. The Mixed scene is used for the detection of motor vehicles, non-motor vehicles and people in outdoor environments with different types of targets.
Added options of license plate algorithm	<p>ANPR and video metadata algorithms can be loaded according to the users' selection.</p> <ol style="list-style-type: none"> Users can select the corresponding algorithm according to the selected region on the Device Initialization page. Users can select the corresponding algorithm on the device management page. Seven algorithm options are provided: Middle East, Europe, Russian Speaking Countries; Southern African Development Community, South Africa, North America and Oversea. If the region does not belong to the first 6, Oversea algorithm should be selected. <p>If Oversea algorithm is selected, only the numbers and English letters on the license plates can be recognized.</p>
Displays lane lines on the Live View page	Lane lines and detection lines added when ANPR was configured can be displayed on the Live View page.
Added heat map	<p>Heat map was added.</p> <p>People counting and heat map need to be enabled at the same time.</p> <p>Only a switch to enable and disable heat map is provided.</p> <p>Heat map reports are supported. Statistics can be displayed by number of people and time.</p>
Optimized privacy protection	Privacy protection was improved for PPE, video metadata and face intelligence.
Optimized PPE detection	The detection performance for workwear, helmets, safety vests, face masks and aprons was improved.
Duplicate faces can be removed by time period for the face recognition function	When the counting mode and general mode are used for face recognition, duplicate faces can be removed by time period.

Item	Description of Existing Features
Supports security baseline V2.3	Functions in security baseline V2.3 are supported.
Supported Intelligent Functions	
Only supports 1 channel	<p>Supports the following intelligent functions:</p> <ul style="list-style-type: none"> ● Face detection

Item	Description of Existing Features
	<ul style="list-style-type: none"> ● Face recognition ● IVS ● Video metadata ● People counting ● ANPR ● Intelligent parking ● PPE detection
Description of Intelligent Functions	
Face detection	<ol style="list-style-type: none"> 1. Supports face detection. 2. Supports non-living filtering. 3. Supports target box overlay. 4. Supports face image deduplication. 5. Supports face snapshot noise reduction. 6. Face cutout supports face images, one-inch photos and custom photos.
Face recognition	<ol style="list-style-type: none"> 1. Supports face recognition. 2. Supports non-living filtering. 3. Supports face image deduplication. 4. Supports independent configuration of event reporting and email linkage according to the database. 5. Supports target box overlay. 6. Supports face snapshot noise reduction. 7. Face cutout supports face images, one-inch photos and custom photos.
IVS	<p>Supports 8 types of rules:</p> <ul style="list-style-type: none"> ● Tripwire ● Intrusion ● Abandoned object ● Fast moving ● Parking detection ● Crowd gathering ● Missing object ● Loitering detection <p></p> <p>Supports detecting people and motor vehicles.</p>
Video metadata	<ol style="list-style-type: none"> 1. Supports 3 types of rules: <ul style="list-style-type: none"> ● People detection ● Motor vehicle detection ● Non-motor vehicle detection 2. Supports face image deduplication (all target face images). 3. Face cutout supports face images, one-inch photos and custom photos. 4. Supports overlaying target box of people faces, bodies, and motor and non-motor vehicles.

Item	Description of Existing Features
	5. Track overlay: Overlay target tracks of people, and motor and non-motor vehicles on the snapshot. 6. Supports face snapshot noise reduction. 7. Search for daily, weekly, monthly, and yearly reports.
People counting	1. View the number of people entering or exiting the area. 2. Counts people in the zone. 3. Queue management. 4. Search for reports.
ANPR	1. License plate recognition and attribute reporting (draw rules for up to 4 lanes). 2. Allowlist and blocklist arming of license plates. 3. Import and export license plate allowlist and blocklist one by one or in batches (the language of exported files varies by system language, and 23 languages are available). 4. Search for license plate numbers stored in the SD card.
Intelligent parking	1. Displays statistics of available parking spaces in the parking lot. 2. Two counting types are supported: Open: When there is a vehicle parked in the parking space, a red dot is overlaid on the vehicle body. No dot when there is no vehicle in the parking space. Planned: When there is a vehicle parked in the parking space, a red dot is overlaid on the vehicle body. A green dot is overlaid on the parking space when there is no vehicle. 3. Pushes the total number of parking spaces and available spaces to the storage devices as scheduled.
PPE detection	1. Only 1 rule can be added. 2. Alarms can be configured for non-compliant and compliant behaviors. 3. Supports 9 attributes: Workwear, hat, face mask, apron, gloves, shoe covers, boots, seatbelt and safety vest. Workwear: Detection by attribute and registered database is supported. Up to 5 registered databases can be added, and only images in JPG formats can be imported to the database. Hat: The system can determine whether a behavior is compliant based on the color settings. 4. For face masks, aprons, gloves, shoe covers, boots, seatbelts and safety vests, the system can only determine whether there are these items.
General Functions	
Upload image reports automatically	1. Reports can be uploaded to the specified address through HTTP, FTP or email. 2. Events and images can be uploaded to the specified address through HTTP.
Sound management	This function is only available for dome cameras. 1. Filters non-human voices.

Item	Description of Existing Features
	<p>2. Supports omnidirectional pickup and directional pickup.</p>
<p>Privacy protection</p>	<p>1. Only 4-MP and 8-MP cameras support privacy protection. 12-MP cameras do not have the function.</p> <p>2. The following 6 intelligent functions support privacy protection:</p> <p>Video metadata</p> <p>People counting</p> <p>IVS</p> <p>Face detection</p> <p>Face recognition</p> <p>PPE detection</p> <p>Notes: When 2 different intelligent functions are enabled at the same time, privacy protection cannot be enabled.</p> <p>1. When privacy protection of an intelligent function has been enabled, you cannot enable other intelligent functions.</p> <p>2. When an intelligent function is disabled, privacy protection of this function will also be disabled.</p> <p>3. Privacy protection is not supported in the counting mode of face recognition.</p>
<p>High frame rate</p>	<p>4-MP and 8-MP cameras:</p> <p>PAL standard supports up to 50 frames.</p> <p>NTSC standard supports up to 60 frames.</p> <p>12MP cameras:</p> <p>High frame rate is not supported.</p>
<p>5 streams, privacy protection, WDR, and high frame rate cannot be enabled at the same time</p>	<p>4-MP cameras:</p> <p>1. High frame rate and WDR cannot be enabled at the same time. There is no prompt when a conflict occurs.</p> <p>2. High frame rate and privacy protection cannot be enabled at the same time. There is a prompt when a conflict occurs.</p> <p>3. Privacy protection and sub stream 4 cannot be enabled at the same time. It can be enabled at the same time with main stream, sub stream 1, sub stream 2, and sub stream 3. There is a prompt when a conflict occurs.</p> <p>4. High frame rate and video metadata (time-division exposure) cannot be enabled at the same time. There is no prompt when a conflict occurs.</p> <p>8-MP cameras:</p> <p>1. High frame rate and WDR cannot be enabled at the same time. There is no prompt when a conflict occurs.</p> <p>2. High frame rate and privacy protection cannot be enabled at the same time. There is a prompt when a conflict occurs.</p>

Item	Description of Existing Features
	<p>3. High frame rate cannot be enabled at the same time with sub stream 2 and sub stream 3. There is a prompt when a conflict occurs. High frame rate can be enabled at the same time with main stream and sub stream 1.</p> <p>4. Privacy protection cannot be enabled at the same time with sub stream 2 and sub stream 3. There is a prompt when a conflict occurs. Privacy protection can be enabled at the same time with main stream and sub stream 1.</p>

1.3 Fixed Bugs

None.

1.4 Compatibility

1.4.1 Program

For IPC-HF74(8/12)42X, IPC-HFW74(8/12)42X and IPC-HDBW74(8/12)42X:

2.6.01.05.65275: DH_IPC-HX7XXX-HW-Faraday_MultiLang_NP_V3.100.0000000.12.R.230111.zip

2.6.01.05.65277: DH_IPC-HX7XXX-HW-Faraday_MultiLang_PN_V3.100.0000000.12.R.230111.zip

1.4.2 Browser

1. Win10 + IE11
2. Win7/10 + Chrome110

1.4.3 Third-party Access

1. CGI testing tool version: V2.91.2.3
2. ONVIF testing tool version: V22.12
3. ONVIF: Supports ProfileS, ProfileG and ProfileT
4. MILESTONE 2023R1

1.5 Software Environment

Category	Model	Version
SDK	Net SDK	General_NetSDK_Eng_Win32_IS_V3.055.00000 01.0.R.211101.7z General_NetSDK_Eng_Win64_IS_V3.055.00000 01.0.R.211101.7z
	PlaySDK	General_PlaySDK_Eng_Windows32_IS_V3.044. 0000002.1.R.210907.zip General_PlaySDK_Eng_Windows64_IS_V3.044. 0000002.1.R.210907.zip

Category	Model	Version
NVR	NVR5X-I/L	DH_NVR5XXX-IL_MultiLang_V4.002.0000000.3.R.220727.zip
	NVR5-EI	DH_NVR5XXX-EI_MultiLang_V4.000.0000000.0.R.221215.zip
EVS	EVS71	DH_EVS71XX_Eng_V5.000.0000000.0.R.221128.zip
IVSS	IVSS7XX	DH_IVSS70XX-M_Eng_V3.001.0000000.0.R.221129.zip
Tools	Player	General_SmartPlayer-Win32_Eng_IS_V4.001.0000003.0.R.220225.zip
	ConfigTool	General_ConfigTool_ChnEng_V5.001.0000001.0.R.20220728.zip
DSS	DSS Pro	General_DSS-Professional_Win64_IS_V8.002.0000000.0.R.20221201.exe
DMSS	DMSS	Download the latest version.

1.6 Pending Issues

None.

1.7 Update Guide

None.

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