



Nobel  
V2.800.0000000.5.R.200525  
Release Notes

ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

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# Release Notes

## 1.1 Overview

Item	Description
Product model	Nobel platform series
Version	V2.800.0000000.5.R.200525
Software package information	DH_IPC-HX8XXX-Nobel_MultiLang_PN_V2.800.0000000.5.R.200525.zip DH_IPC-HX8XXX-Nobel_MultiLang_NP_V2.800.0000000.5.R.200525.zip DH_IPC-HX8XXX-Nobel_MultiLang_PN_Stream3_V2.800.0000000.5.R.200525.zip DH_IPC-HX8XXX-Nobel_MultiLang_NP_Stream3_V2.800.0000000.5.R.200525.zip
OS requirement	None
Release date	2020-6-20

## 1.2 New Features

### FD Model

【78/74Model】

Feature	Description
Security baseline 2.1	Security baseline 2.1.
Face detection	<ul style="list-style-type: none"><li>● Face detection and liveness filter.</li><li>● Target box overlay.</li><li>● Duplicate faces removing.</li></ul>
People counting	<ul style="list-style-type: none"><li>● Supports counting people crossing multiple lines and in multiple areas.</li><li>● Queue management.</li><li>● Statistic search function.</li></ul>
IVS	<ul style="list-style-type: none"><li>● Detection functions: Tripwire intrusion abandoned object fast moving parking detection crowd gathering moving object loitering detection</li><li>● Crossing fence detection</li><li>● AI recognition (without recognition of people and non-motor vehicle.)</li></ul>
Video metadata	<ul style="list-style-type: none"><li>● Detection functions: People detection vehicle detection (ANPR function is for UAE (United Arab Emirates) only.)</li></ul>

	<p>non-motor vehicle detection</p> <ul style="list-style-type: none"> <li>● Vehicle detection: Tripwire snapshot is supported.</li> <li>● Target box overlay.</li> </ul>
Privacy Protection	<ul style="list-style-type: none"> <li>● This function is supported by 4MP camera only.</li> <li>● On the video metadata interface, you can enable privacy protection function and select to protect face or human body.</li> </ul>
ANPR	<ul style="list-style-type: none"> <li>● ANPR function. (The baseline version supports UAE (United Arab Emirates) only, for other countries, the function can be customized.)</li> <li>● Target box overlay.</li> </ul>
Five streams	<ul style="list-style-type: none"> <li>● Five streams: Main stream sub stream 1 sub stream 2 sub stream 3 sub stream 4</li> <li>● CGI supports the five streams and the configuration for each stream at the same time</li> </ul>
High frame rate value	Without WDR, cameras with pixels lower than 4MP support high-value frame rate.
Low stream rate	<ul style="list-style-type: none"> <li>● Enable: Enable smart encoding function on the video stream interface.</li> <li>● Improves stream compression rate, and saves record storage space.</li> </ul>
Face exposure 3.0 function	Improves face brightness in backlight scene (WDR is disabled.)
License verification	There will be error prompt when the license is not imported successfully.
Face detection diagnostic tool	Verifies the intelligent function of face detection and face recognition. (People detection of video metadata is not supported.)
Device error diagnosis	When there is device error, you can communicate with the camera through diagnostic tool to get the details and analyze the reason.
Forward compatibility during login	Login safe mode and compatibility mode.
Auto registration	Added auto registration function.
Deleted Persian	Deleted Persian in the software,

**【58 Model】**

<b>Feature</b>	<b>Description</b>
Security baseline 2.1	Security baseline 2.1.
Face detection	<ul style="list-style-type: none"> <li>● Face detection and liveness filter.</li> <li>● Target box overlay.</li> <li>● Duplicate faces removing.</li> </ul>

People counting	<ul style="list-style-type: none"> <li>• Supports counting people crossing multiple lines and in multiple areas.</li> <li>• Queue management.</li> <li>• Statistic search function.</li> </ul>
IVS	<ul style="list-style-type: none"> <li>• Detection functions: Tripwire intrusion abandoned object fast moving parking detection crowd gathering moving object loitering detection</li> <li>• Crossing fence detection</li> <li>• AI recognition (without recognition of people and non-motor vehicle.)</li> </ul>
Low stream rate	<ul style="list-style-type: none"> <li>• Enable: Enable smart encoding function on the video stream interface.</li> <li>• Improves stream compression rate, and saves record storage space.</li> </ul>
Face exposure 3.0 function	Improves face brightness in backlight scene (WDR is disabled.)
License verification	There will be error prompt when the license is not imported successfully.
Face detection diagnostic tool	Verifies the intelligent function of face detection and face recognition. (People detection of video metadata is not supported.)
Device error diagnosis	When there is device error, you can communicate with the camera through diagnostic tool to get the details and analyze the reason.
Forward compatibility during login	Login safe mode and compatibility mode.
Auto registration	Added auto registration function.
Deleted Persian	Deleted Persian in the software,

## FR Model

Feature	Description
Security baseline 2.1	Security baseline 2.1.
Face recognition	<ul style="list-style-type: none"> <li>• Face recognition and liveness filter.</li> <li>• Error prompt for the failed registration of face library</li> <li>• Requirement for face images to be put into the face database (Size of single picture, and remaining capacity of the face database).</li> <li>• Quality control for face images to be put into the face library (Limit the parameter through CGI command).</li> <li>• Face image and information encryption.</li> <li>• Feature dialyzing with full resolution.</li> </ul>

	<ul style="list-style-type: none"> <li>● Duplicate faces removing.</li> <li>● Configure event report and email linkage according to the face database.</li> <li>● Target box overlay.</li> </ul>
People counting	<ul style="list-style-type: none"> <li>● Supports counting people crossing multiple lines and in multiple areas.</li> <li>● Queue management.</li> <li>● Statistic search function.</li> </ul>
IVS	<ul style="list-style-type: none"> <li>● Detection functions: Tripwire intrusion abandoned object fast moving parking detection crowd gathering moving object loitering detection</li> <li>● Crossing fence detection</li> <li>● AI recognition (without recognition of people and non-motor vehicle.)</li> </ul>
Video metadata	<ul style="list-style-type: none"> <li>● Detection functions: People detection vehicle detection (ANPR function is for UAE (United Arab Emirates) only.) non-motor vehicle detection</li> <li>● Vehicle detection: Tripwire snapshot is supported.</li> <li>● Target box overlay.</li> </ul>
Privacy Protection	<ul style="list-style-type: none"> <li>● This function is supported by 4MP camera only.</li> <li>● On the video metadata interface, you can enable privacy protection function and select to protect face or human body.</li> </ul>
ANPR	<ul style="list-style-type: none"> <li>● ANPR function. (The baseline version supports UAE (United Arab Emirates) only, for other countries, the function can be customized.)</li> <li>● Target box overlay.</li> </ul>
Five streams	<ul style="list-style-type: none"> <li>● Five streams: Main stream sub stream 1 sub stream 2 sub stream 3 sub stream 4</li> <li>● CGI supports the five streams and the configuration for each stream at the same time</li> </ul>
High frame rate value	Without WDR, cameras with pixels lower than 4MP support high-value frame rate.
Low stream rate	<ul style="list-style-type: none"> <li>● Enable: Enable smart encoding function on the video stream interface.</li> </ul>

	<ul style="list-style-type: none"> <li>Improves stream compression rate, and saves record storage space.</li> </ul>
Face exposure 3.0 function	Improves face brightness in backlight scene (WDR is disabled.)
License verification	There will be error prompt when the license is not imported successfully.
Face detection diagnostic tool	<ul style="list-style-type: none"> <li>Verifies the intelligent function of face detection and face recognition.</li> <li>Face detection and verification of video metadata are not supported.</li> </ul>
Device error diagnosis	When there is device error, you can communicate with the camera through diagnostic tool to get the details and analyze the reason.
Forward compatibility during login	Login safe mode and compatibility mode.
Auto registration	Added auto registration function.
Deleted Persian	Deleted Persian in the software,

## 1.3 Fixed Bugs

The baseline version is updated.

## 1.4 Compatibility

### 1.4.1 Program

- For IPC-HF74(8)42X , IPC-HFW74(8)42X , IPC-HDBW74(8)42X ,IPC-HFX7442X-FR:  
2.6.01.05.10827:DH\_IPC-HX8XXX-Nobel\_MultiLang\_NP\_V2.800.0000000.2.R.190709.zip  
2.6.01.05.10829:DH\_IPC-HX8XXX-Nobel\_MultiLang\_PN\_V2.800.0000000.2.R.190709.zip
- For IPC-HDBW5842X, IPC-HFW5842X:  
2.6.01.05.13715:DH\_IPC-HX8XXX-Nobel\_MultiLang\_NP\_Stream3\_V2.800.0000000.3.R.190907.zip  
2.6.01.05.13716:DH\_IPC-HX8XXX-Nobel\_MultiLang\_PN\_Stream3\_V2.800.0000000.3.R.190907.zip

### 1.4.2 Browser

IE9\IE10\IE11\Firefox (Use Firefox under V66)\Google75

### 1.4.3 Third Party Access

- CGI testing tool version: V3.01.6
- ONVIF testing tool version: V19.06
- ONVIF: Supports ProfileG, ProfileT, ProfileS
- MILESTONE testing tool version: 2019 R3 milestone
- GENETEC testing tool version: Security Desk 5.7SR4



# 1.5 Software Environment

## FD Model

Matching Type	Matching Device Model	Software version
NVR	NVR5X-I	DH_NVR5XXX-I_MultiLang_NP_V4.000.0000000.1.R.20190809.zip
	NVR5XX-4kS2	DH_NVR5XXX-4KS2_MultiLang_V4.000.0000001.3.R.20191129.zip
	NVR4X-I (Only for ANPR)	DH_NVR4XXX-I_MultiLang_NP_V4.000.0000000.1.R.20190809.zip
	NVR5X-I (Only for ANPR)	DH_NVR5XXX-I_MultiLang_NP_V4.000.0000000.1.R.20190809.zip
	NVR5XX-4kS2 (Only for Privacy Protection)	Customer_NVR5XXX-4KS2_MultiLang_DH_V4.000.0000000.0.R.20191223.zip
IVSS	ivss7x	DH_IVSS7XX_Eng_V2.000.0000002.0.R.191206.BIN
Client	SmartPSS	DH_SMARTPSS-Win32_ChnEng_IS_V2.003.0000001.0.R.191028.zip
IVS	F7500-P-S2	General_IVS-F7500-P-S2_ChnEng_Base_V1.002.9995001.0.R.190603.tar.gz
	IVS-VS8000-A	General_IVS-IP8000-A_ChnEng_MD5-506a_V3.000.0000000.6.R.191230.tar.gz
Tool	Player	General_SmartPlayer-Win32_Eng_IS_V4.000.0000001.4.R.191009.zip
	ConfigTool	General_ConfigTool_ChnEng_V4.011.0000003.5.R.20190722.zip
	PlaySDK	General_PlaySDK_Eng_Windows64_IS_V3.042.0000001.2.R.191225.zip
		General_PlaySDK_Eng_Windows32_IS_V3.042.0000001.2.R.191225.zip
NetSDK	General_NetSDK_Eng_Win64_IS_V3.051.0000006.1.R.191126.7z	
	General_NetSDK_Eng_Win32_IS_V3.051.0000006.1.R.191126.7z	
DSS	DSS pro	General_DSS-PRO_Win64_IS_V7.002.0000005.0.R.20200414.exe
		General_DSS-PRO_Win32_IS_V7.002.0000005.0.R.20200414.exe
	DSS-C9100	General_DSSC9100_MultiLang_V3.000.0000009.3.R.190927.tar.gz

## FR Model

Matching Type	Matching Device Model	Software version
NVR	NVR5X-I	DH_NVR5XXX-I_MultiLang_NP_V4.000.0000000.1.R.20190809.zip
	NVR5XX-4kS2	DH_NVR5XXX-4KS2_MultiLang_V4.000.0000001.3.R.2019

		1129.zip
	NVR5XX-4kS2 (Only for ANPR)	Customer_NVR5XXX-4KS2_MultiLang_DH_V4.000.000000 0.0.R.20191223.zip
IVSS	ivss7x	DH_IVSS7XX_Eng_V2.000.0000002.0.R.191206.BIN
Client	SmartPSS	DH_SMARTPSS-Win32_ChnEng_IS_V2.003.0000001.0.R.1 91028.zip
Tool	Player	General_SmartPlayer-Win32_Chn_IS_V4.000.0000001.4.R. 191009.zip
	ConfigTool	General_ConfigTool_ChnEng_V4.011.0000003.5.R.201907 22.zip
	PlaySDK	General_PlaySDK_Eng_Windows64_IS_V3.042.0000001.2. R.191225.zip General_PlaySDK_Eng_Windows32_IS_V3.042.0000001.2. R.191225.zip
	NetSDK	General_NetSDK_Chn_Win64_IS_V3.051.0000006.1.R.191 126.7z General_NetSDK_Chn_Win32_IS_V3.051.0000006.1.R.191 126.7z
DSS	DSS pro	General_DSS-PRO_Win64_IS_V7.002.0000005.0.R.202004 14.exe General_DSS-PRO_Win32_IS_V7.002.0000005.0.R.202004 14.exe
	DSS EXPRESS	General_DSS-Express_win32_IS_V1.000.0000003.1.R.201 90817.exe

## 1.6 Pending Issues

No.	Issue description	Possible result	How to fix
1	For face recognition function, when registering face in batches, the faces that are modeled successfully is more than that displayed on the web interface.	The successfully modeled faces are not displayed correctly on the web interface, but the camera can work normally.	—
2	For face recognition function, some face images cannot be modeled correctly (display no face or multiple faces).	Occasionally, some front face images cannot be modeled.	—
3	When the camera is installed outdoors, and the lens is to the indoor environment, set the exposure [ <b>Shutter Priority</b> (0-10 ms)], and backlight from <b>Off</b> to <b>SSA</b> , and then enable face detection, the image brightness is low.	When set backlight from <b>Off</b> to <b>SSA</b> self-adaption, but the camera state is still off, the image brightness will be low.	<ul style="list-style-type: none"> <li>● Set exposure mode to manual, Gain 100–100, and then recover the former configuration of exposure. If the color or saturation is not recovered, set the exposure mode to manual again, and try other values for Gain, and then recover the former configuration of exposure.</li> <li>● Cover the lens (Do not dirty the lens), try to change the environment.</li> <li>● Set backlight from <b>Off</b> to <b>SSA</b> several times.</li> </ul>

## 1.7 Update Guide

None.

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