



DH3.RD000231\_DVR\_X86 Baseline Project  
(V3.218.0000.0)  
Release Note

Zhejiang Dahua Vision Technology Co.,Ltd

# Important Safeguards and Warnings

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## Before Start

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### Update and revision

- This user's manual for reference only. Slight difference may be found in the user interface.
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# Release Note

## 1 Version Basic Info

<b>Product Name</b>	DVRX86 baseline project
<b>Version No.</b>	V3.218.0000.0
<b>Software Package Info</b>	DH_HCVR8xxx_Eng_P_V3.218.0000.0.R.20170613.zip DH_HCVR8xxx_EngSpnFrn_NP_V3.218.0000.0.R.20170613.zip
<b>Model</b>	DHI-HCVR8204A-S3, DHI-HCVR8208A-S3, DHI-HCVR8216A-S3, DHI-HCVR8404L-S3, DHI-HCVR8408L-S3, DHI-HCVR8416L-S3, DHI-HCVR8804S-S3, DHI-HCVR8808S-S3, DHI-HCVR8816S-S3, DHI-HCVR8808S-URH-S3, DHI-HCVR8816S-URH-S3, DHI-XVR8808S, DHI-XVR8816S
<b>OS</b>	N/A
<b>Release Date</b>	2017-6-20

## 2 Product Basic Functions and Applications

This baseline integrates some project features, develops some new functions.

1. Integrates some projects features

Device initialization, LeChange 2.0, security baseline, TLS encryption, network self-adaptive and etc.

2. New function development and integration

8MP CVI camera, 8M fisheye (180° ) connection and dewarp, PIR camera, format HDD without rebooting and etc.

## 3 Newly Added or Enhanced Functions

Function Name	Function Description
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Device initialization and reset password	<p>Device needs to be initialized if it is the first time to use or after the default operation. The default setup has no account. Please initialize first and then use.</p> <p>Device supports reset password function via email and security questions.</p>
Security baseline	<p>Device supports the following network security functions:</p> <ol style="list-style-type: none"> <li>1. ID security.</li> <li>2. Access control.</li> <li>3. Dialogue security.</li> <li>4. Data security.</li> <li>5. Protocol security.</li> <li>6. Security audit.</li> <li>7. Special items security.</li> </ol>
TLS encryption function integration	<p>Support the 2<sup>nd</sup> protocol video data stream TLS encryption.</p> <p>Three login modes: force non-encryption mode, self-adaptive mode, force encryption mode.</p> <ul style="list-style-type: none"> <li>● For the force encryption mode, if the device does not support TLS encryption, the device returns failure.</li> <li>● For the self-adaptive mode, if the device does not support TLS, then login via the non-encryption mode.</li> <li>● For the audio/video interlace sub-linkage, its encryption is the same as the main linkage.</li> </ul>
Network self-adaptive integration	<p>Network transmission adopts self-adaptive mode. It includes discard frame and bit stream policy.</p>
Matrix device supports CVI 8MP connection	<p>The matrix device supports CVI 8M @15fps connection. It includes preview, encode, playback, coaxial control and use coaxial cable to upgrade the connected online camera.</p> <p>The matrix device supports CVI 8M @15fps 180°fisheye connection, preview and dewarp during playback.</p>
PIR camera connection	<p>Enhance motion detection trigger accuracy and effectiveness. PIR integrates the motion detect alarm, it can filter the false alarm triggered by the falling leaves, small flies and etc.</p>
SmartH.265 decode	<p>The network camera supports smartH.265 bit streams decode function.</p>
IP channel remote preview function	<p>Support IP channel remote preview function. View the network camera video before adding the camera, it is suitable for user to confirm to connect or not.</p>
Switch network camera channel	<p>It is the channel setting function. Add organize videos on the Registration interface; there is move up/move down button. Support setting several channels at the same time.</p>
Support peripheral USB keyboard	<p>The embedded device supports peripheral keyboard connection. It support direction buttons and input method settings.</p>
WEB supports coaxial alarm settings	<p>The N8 platform WEB supports HDCVI alarm settings.</p>
WEB supports passengers flow statistics	<p>WEB supports report sheet. There is no need to use VGA to view.</p>

Optimize account lock	Lock user name +IP at the same time instead of the user name only. Lock by the user name and the IP instead of the user name only.
Optimize Add/cancel IP channel function on the channel type interface.	The analog/digital channel switch and the Add IP channel function can be set and save at the same time.
The aux screen supports hot swap	There is no need for the user to select to enable. Device can auto detect there is aux screen or not. It can fully use device performance.
Do not reboot after formatting HDD	Do not reboot after format or change HDD properties (read-only, redundant, read-write, backup and etc.)
Support 2T or higher flash disk, eSATA HDD	When format backup HDD, or portable HDD, flash disk, eSATA HDD, it can format to several 1T partition (FAT32 max supports 2T.) When eSATA HDD (several partitions) becomes the storage disk, several partitions will be formatted at the same time.
Optimize super decode capability	Just playback I frames only when the playback has exceeded the decode capability. If it has exceeded I frame playback capability, display "Exceeded decode capability" on the screen to remind the user. The preview does not support I frame or display "Exceeded decode capability" on the screen, just show the black screen. Device allocated the decode capability to the playback and preview function according to its enabled sequence.

## 4 About Fixed Bugs (For R&D Only)

Fixed bug	Details
The matrix device support 4MP self-adaptive function in auto mode.	There is no output when connection to CVI 4MP/8MP camera in the auto mode. If the type is CVI, the AD switches to the CVI chip. If the type is non-CVI, switches to the CVI chip output.

## 5 About Fixed Bugs (For Market Only)

Fixed bug	Details
N/A	

## 6 Compatible Software Version Info

Current version is V3.218.0000.0, Compatible with previous version V3.216.0000.4、V3.216.0000.3、V3.216.0000.2、V3.216.0000.1、V3.216.0000.00.

## 7 Baseline Corresponding Software Info

### 1. Baseline corresponding software

SmartPss: General\_SmartPSS\_ChngEng\_IS\_V2.00.1.R.20170225.zip

NKB3000: General\_NETKB3000\_Chng\_P\_V2.610.0000.5.R.20160118.zip

NKB1000: General\_NETKB1000\_Chng\_V2.610.0000.4.R.20161024.zip

DSS7016: General\_DSS\_Eng\_Basic\_V6.07.000.R.20170213.tar.gz

NetSDK: General\_NetSDK\_Eng\_Win32\_IS\_V3.46.0.R.160926.7z

ConfigTool: General\_ConfigTool\_ChngEng\_V4.07.0.R.20170415.zip

### 2. Decoder:

General\_NVSO904DH\_Eng\_P\_V3.200.0002.0.R.20170324.zip

### 3. SmartPlayer:

General\_Player\_Eng\_WIN32\_V3.41.0.R.161031.zip

### 4. HDD manager

General\_DiskManager\_Eng\_WIN32\_V2.01.0.R.161124.7z

General\_Player\_Chng\_WIN32\_V3.41.0.R.161031.zip

### 5. Cell phone

Android:

General\_DMSS-Android-Phone-Lite-Device\_Internal\_Basic\_IS\_V3.46.000.R.170330.apk

iPhone:

General\_DMSS-IOS-Phone-Pad-Plus-Device\_Internal\_Basic\_IS\_V3.46.000.R.170330.ipa

iPad:

General\_DMSSHD-IOS-Pad-Plus-Device\_Internal\_Basic\_IS\_V3.32.003.R.161201.ipa

## 8 Pending Bugs (For R&D Only)

SN	Bug	Description	How to fix
1	N/A		

## 9 Pending Bugs (For Market Only)

SN	Bug	Description	How to fix
1	【GDMSS】 Client cannot get the alarm push when the scene is	DMSS V3.46.000.R.170330 has updated the intelligent protocol. It cannot receive the push now.	Use the previous GDMSS version.

	changing		
2	<b>【 Local 】</b> Using 75-5 coaxial 500M cable to connect the 4K camera, there are color stripes in multiple-window mode.	When using 300M 75-5 or 200M 75-3 to connect to the 4K camera, there are some slightly color stripes. There are no stripes when encoding.	Once the bug appears, please connect CVI camera to these 4 channels. For example: If the channel 1 has connected to the CVI 4MP camera, then connect the CVI 4MP camera to the channel 2, channel, 3 and channel 4. Then there is no disturbance.
3	<b>【 MAC OS 】</b> Use safari to login the WEB. MIC OUT is not fluent after enable bidirectional talk function.	For the 1U series product, when enable bidirectional talk from MAC to device, the audio is not fluent. Right now, this bug is on the MAC OS only. The risk is low.	Please use non-MAC system to enable bidirectional talk function when it is the 1U series product.
4	<b>【 Local/WEB 】</b> There is no human face image when using the device intelligent function (digital channel) to trigger human detect alarm.	The event just lasts for 3 seconds. The digital channel intelligent event cannot trigger snapshot.	Trigger record instead of the snapshot. Or use the analog channel to trigger the snapshot.
5	<b>【 4K display and output 】</b>	When in 4K mode, once the POS information is too much (more than 10 lines), the output is not fluent.	Do not use 4K output or make sure the output information is less than 10 lines.
6	<b>【 Local 】</b> For HD analog channel, right click mouse to select color menu. Click EQ reset button, user can drag the slide bar but cannot save the settings.	Can drag EQ slide bar, but cannot save the settings.	Use button “+” or “-” to set.
7	<b>【 Occasionally 】</b> <b>【 WEB 】</b> When change analog channel to the digital channel, reboot the device	Device cannot boot up properly.	Restore factory default setup.



	and then input "ii", the device is down.		
8	【 Stability 】 For 171.5.4.109 device, lock the key frame record file, once overwrite the record, there is no file but the date is still highlighted.	WEB displays highlighted date state is not right. The date is highlighted but there is no record.	Please search on the local and then unlock to fix.
9	【 Local 】 In 4K display output, after some operations , the week displayed at the top right corner displays as ...	In 4K resolution, time format use 12H and select separator as "." or the "/", and then change date separator as "-". The date is displayed properly.	Change time format or separator, or disable/enable week again to fix.
10	【 Corresponding project features 】 【 WEB 】 【 the requirements are not the same 】 HTTPS server certificate is 1024bits, the right setting shall be 2048bits or higher.	The encryption level is generally low.	Please use the certificate of high encryption level.
11	【Local】 Add IVS rule on the analog channel, sometimes the IVS rule line disappears. WEB display is OK	After enable IVS function, when the device load is full (all IVS functions are enabled at the same time), the IVS rule line or the alarm may become error.	Disable/enable IVS rule to fix.
12	【 Local/WEB 】 Connect DVR to the DVR, for the channel more than 16, cannot change channel name.	Connect DVR to the DVR, for the channel more than 16, cannot change channel name.	Login the connected DVR WEB to change.
13	【 smartPLayer 】 For the 4K intelligent encode with the audio, for each intelligent I frame, the audio is	When using the corresponding software playback the 4K audio/video, it is not fluent. The local and the WEB are OK.	Use Local or the WEB to playback.

	not fluent.		
14	【WEB】 There is no alarm name when the HDCVI alarm triggers the SMS.	There is no alarm name when HDCVI alarm triggers SMS.	This function is to be developed.
15	【WEB】 The POS search time is 10 seconds earlier than the specified time. It cannot go to the next POS file, nor stop playback.	The local is OK. The first POS file of the WEB is OK, but it cannot go to the next POS file nor stop playback.	Please use local interface to play.
16	【 Local 】 In 4K resolution, there is 1 second delay when use local menu to preview 400MP/4K fisheye dewarp.	4K fisheye dewarp delay time is about 1 second.	This is the inherent defect.
17	【 Local 】 Analog 720P/60fps the backward playback on splice playback is error.	50/60f camera, the I interval is 2 seconds. The backward play is abnormal.	Please set I frame interval as 1 second.

## 10 Upgrade

1. The upgrade mode includes configtool, web, USB device. Please refer to the upgrade manual for detailed information.
2. During the upgrade process, the functions such as record, network preview is null. After upgrade and reboot process, the device becomes OK.
3. The previous device settings remain the same.
4. During the upgrade process, do not shut down the device or unplug the power cord. Otherwise, the device may become malfunction and cannot boot up.

