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| NVR2XXX-4KS2\_V4.000.0000000.1 |
| Release Notes |
| **ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.** |

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Table of Contents

[Legal Information I](#_Toc16177979)

[Release Notes 1](#_Toc16177980)

[1.1 Overview 1](#_Toc16177981)

[1.2 New Features 1](#_Toc16177982)

[1.3 Fixed Bugs 4](#_Toc16177983)

[1.4 Instructions for New Features 4](#_Toc16177984)

[1.4.1. New NVR 4.0 UI 4](#_Toc16177985)

[1.4.2. Web browser display normally without plug-in 7](#_Toc16177986)

[1.4.3. HDD Health Detection 7](#_Toc16177987)

[1.4.4. Dual-sensor People Counting 9](#_Toc16177988)

[1.4.5. Internationalization 11](#_Toc16177989)

[1.4.6. Switching to H.265 Automatically 12](#_Toc16177990)

[1.4.7. Thermal Imaging Camera 12](#_Toc16177991)

[1.4.8. Panoramic + PTZ Network Camera 13](#_Toc16177992)

[1.4.9. AI Fisheye Camera 16](#_Toc16177993)

[1.5 Compatibility 18](#_Toc16177994)

[1.6 Software Environment 19](#_Toc16177995)

[1.7 Pending Issues 24](#_Toc16177996)

[1.8 Update Guide 24](#_Toc16177997)

# Release Notes

## Overview

| Item | Description |
| --- | --- |
| Product model | NVR2XXX-4KS2 Series |
| Version | V4.000.0000000.1, |
| Software package information | DH\_NVR2XXX-4KS2\_MulitLang\_V4.000.0000000.1.R.20190809.zip |
| Onvif Version | 2.4.1 |
| OS requirement | None |
| Release date | 8/16/2019 |

## New Features

|  |  |
| --- | --- |
| Function name | Functional Description |
| **NVR4.0 new UI** | 1. It is to realize NVR interface based on the 4.0 interface style. The same functions are basically the same, and the market requires to retain the existing functions of the NVR. 2. Adjust the main menu. AI setting and AI search are put together with a separate AI menu items, other events are in the alarm item, and the main and auxiliary screens are set to the right-click menu. 3. Supports vector font. 4. Web interface style is consistent with the local menu. |
| **Network Security Baseline V2.0** | 1. Supports system firmware encryption. 2. The device supports 802.1x access authentication. 3. TFTP upgrade: The trusted upgrade and secure boot by Uboot. 4. Supports network security requirements such as firewall. |
| **Support web no plugin** | 1. Version requirements: For chrome version number lower than 42, Firefox version lower than 52, there is a plug-in. For the browser higher than the above versions, there is no plug-in. 2. Supported contents are mainly based on video. |
| **ONVIF optimization** | 1. Supports ONVIF18.06 tool. 2. Supports profile G. |
| **International requirements** | 1. Adds **Shut down** button before initialization. 2. Adds the country, language, and format settings. 3. Supports synchronizing audio, format, and time zone to the front-end device when connecting to it. |
| **Automatic H265** | 1. Automatic setting front-end adopts H.265 encoding when registering remote device to the NVR. |
| **Email optimization** | 1. Adds IPC channel name in the body contents of the alarm email. 2. Standardizes intelligent event email format. |
| **Auto registration** | 1. The whole series supports the auto registration function suitable to connect to all platforms. 2. Auto registration through domain name. |
| **Alarm Center Dual IP** | 1. Supports server of dual-IP. 2. Supports to upload alarm information to 2 server addresses at the same time. |
| **Hard disk health plan** | 1. Supports hard disk health detection. 2. Supports manual detection refresh. 3. Supports to display detection details report. 4. Supports alarm prompt for detected errors. Right now it supports hard disk temperature too high, linkage abnormality, imminent error, vibration, etc. |
| **Hard disk estimation** | 1. Adds hard disk estimation function. 2. Supports the hard disk storage capacity estimation based on the resolution stream of the current access channel. |
| **Hard disk migration** | 1. Hard disk migration formatting strategy, adding "unformatted" status. |
| **FTP experience optimization** | 1. Supports FTP storage pictures based on channels. |
| **Hard disk light** | 1. When the hard disk is abnormal, the indicator light is on. When it is normal, the indicator light is off. 2. The HDD abnormal event does not affect hard disk light. |
| **Password resetting** | 1. Adjust reserved mailbox item: From the admin user configuration interface to Reset Password page of the security center. 2. At the same time, security question and reserved mailbox item are merged onto the Reset Password interface. |
| **Recover password** | 1. Adjust the QR code of the device's local GUI, and the QR marks as local GUI. 2. For the storage device, user can only scan the local QR code to reset password. Delete scanning QR code on Web to reset password. Do not support resetting password by Configtool. Supports resetting password by DMSS. 3. Log: password reset operation log type is security management. |
| **MAC address binding** | 1. Supports setting the MAC address for newly added users, and only allows access to users through specific MAC devices. |

## Fixed Bugs

The fixed bugs are included in the chapter 1.2 New Features.

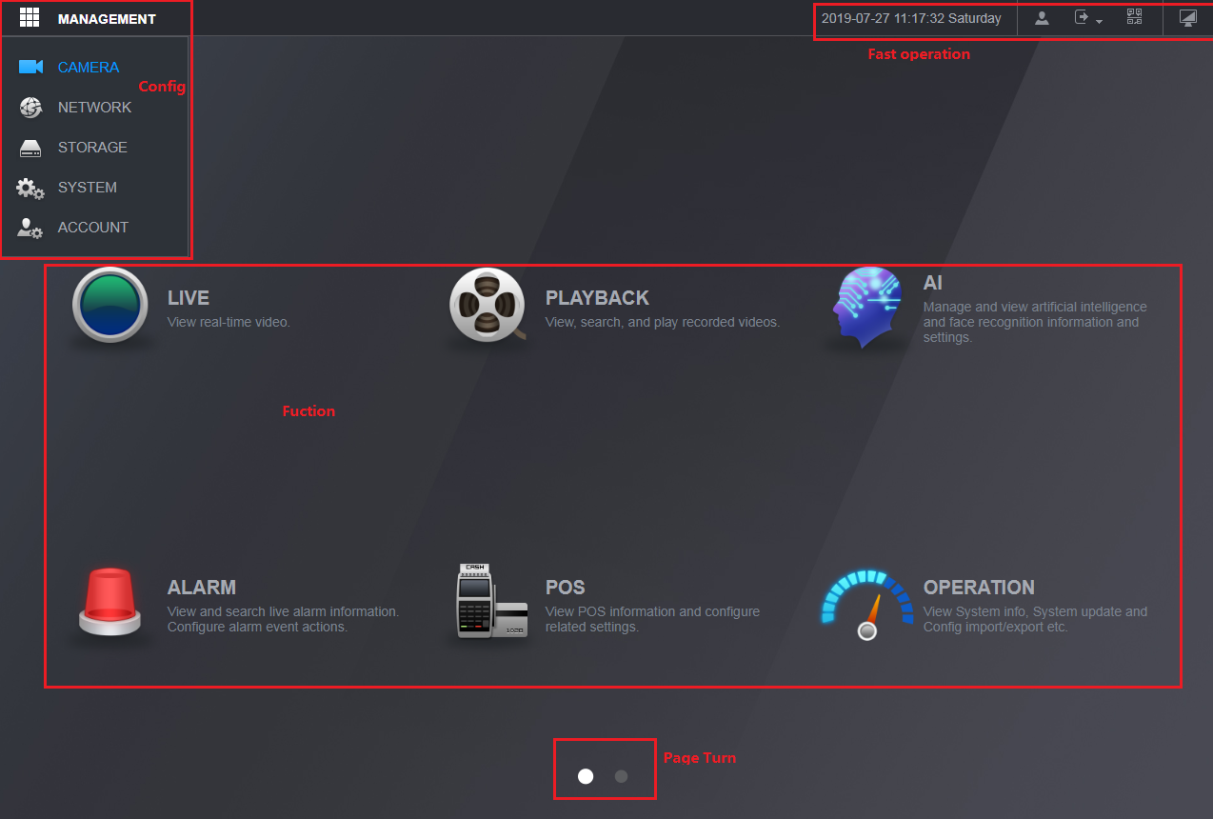
## Instructions for New Features

### New NVR 4.0 UI

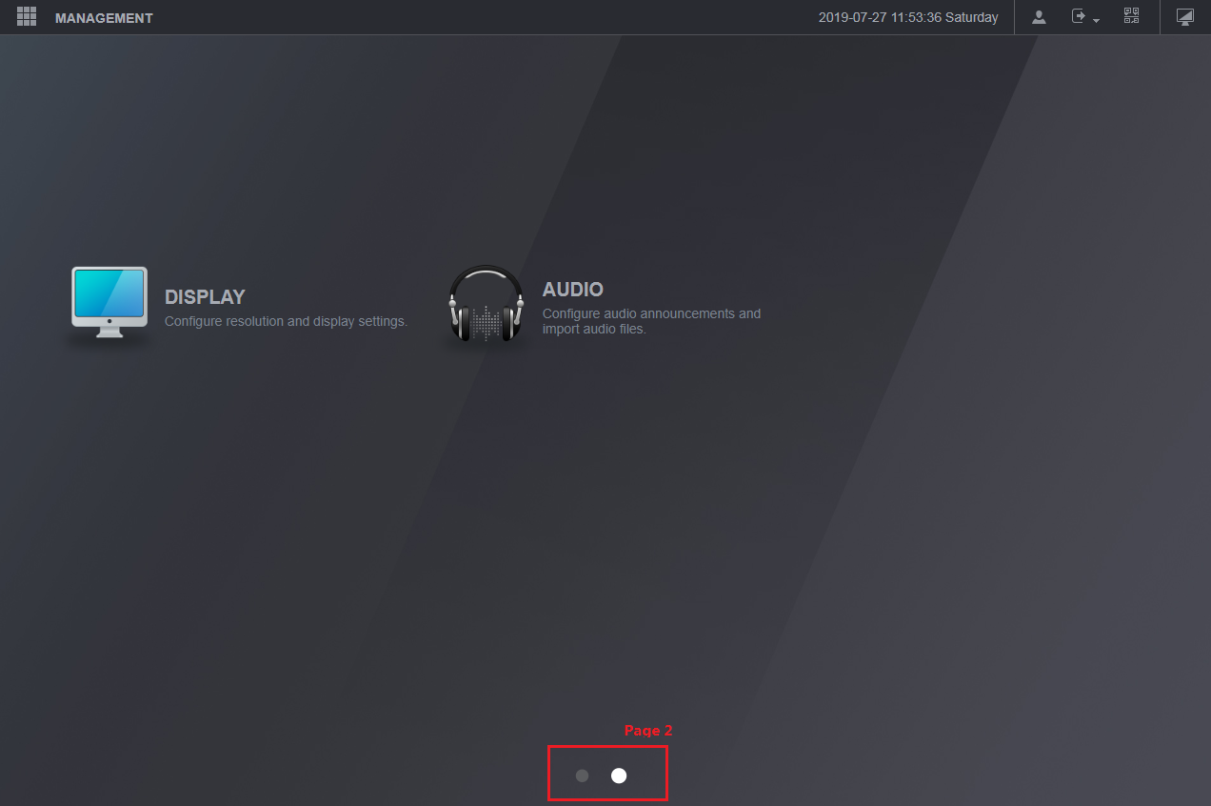
* + 1. **Interface Style**

The new UI uses flat design which is more consistent with users’ habits. It’s divided into configuration area, function area, fast operation area and page turning area. You can turn pages to display more functions supported by the device.

New UI (1)



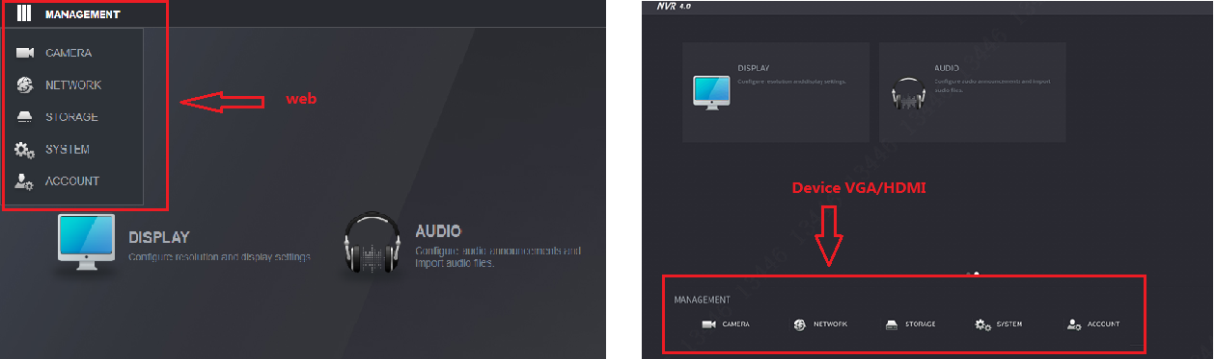
New UI (2)



* + 1. **Interface Display**

The interfaces of local configuration and Web are almost identical. There are slight differences in operating on two interfaces.

Difference between two interfaces

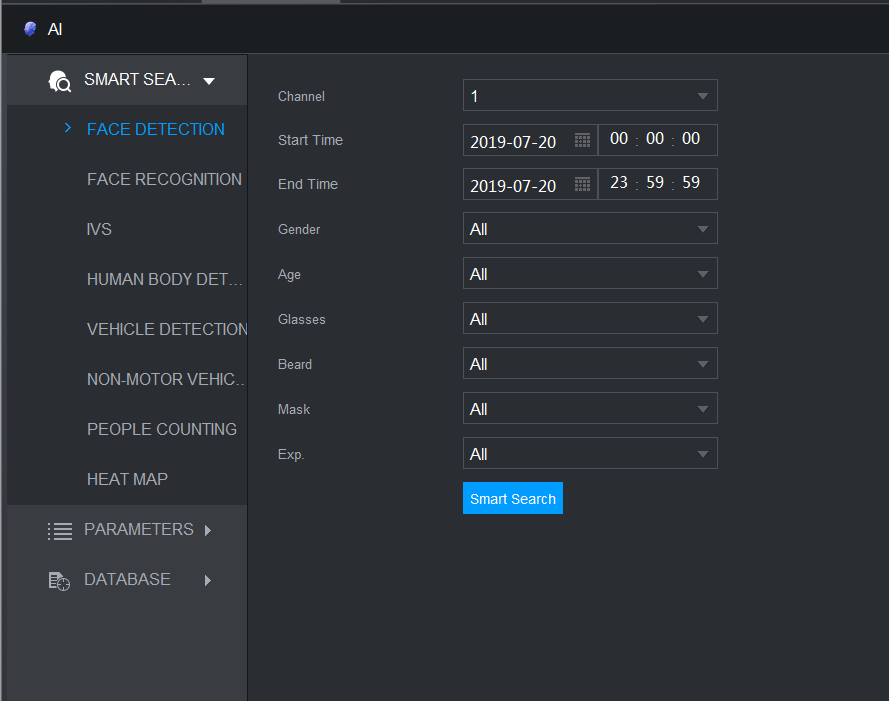


* + 1. **Menu Integration**

Related functions are centralized and categorized.

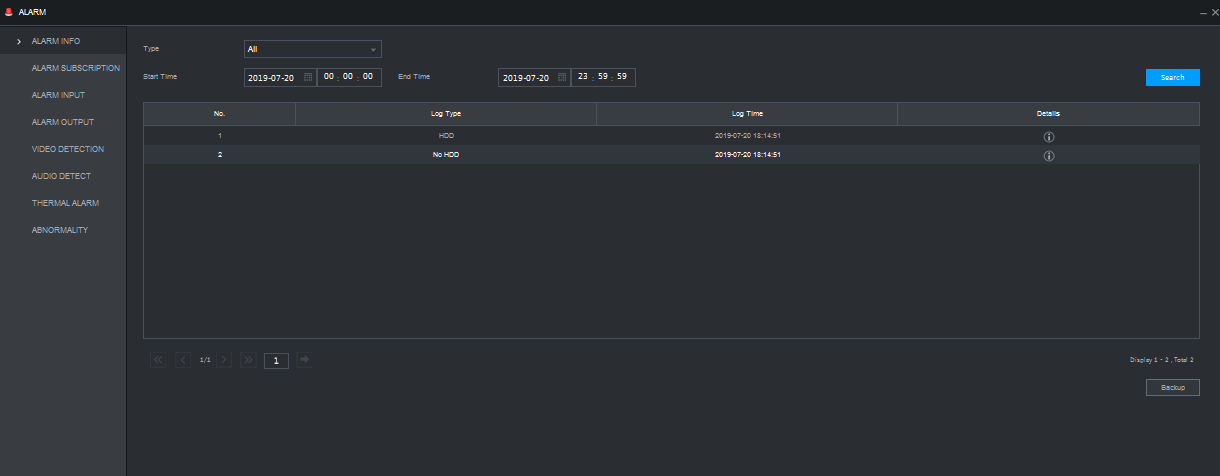
* All AI related functions are concentrated on AI interface: Including AI query, AI configuration, AI database and so on.

AI interface

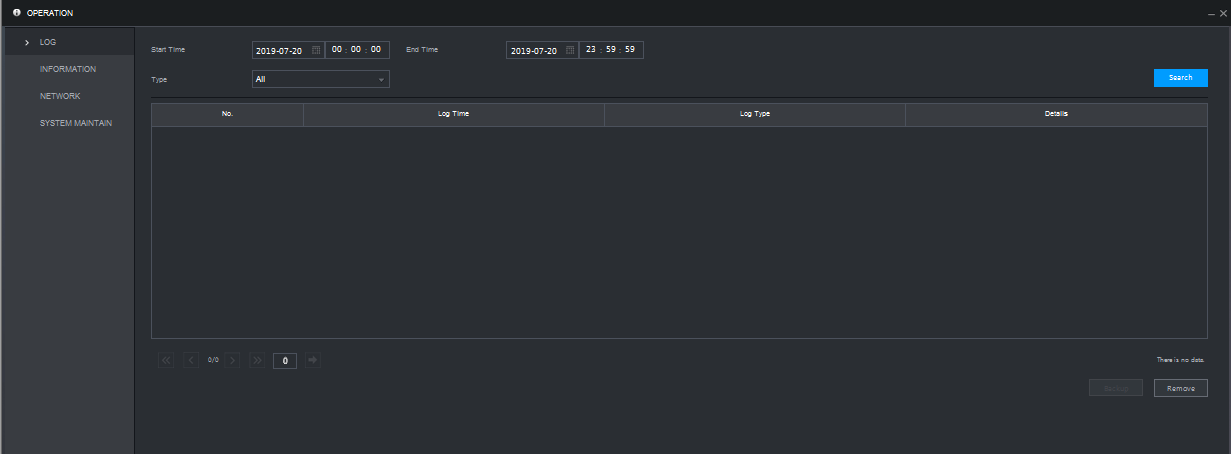


* Logs are classified on the basis of functions. Event logs are centralized in **Alarm** interface and system logs are centralized in **Operation** interface.

Alarm



Operation



### Plug-in Free Version of Web Browsers

1. **Versions of web browsers**

| **Web Browser** | **Plug-in version** | **Plug-in free version** |
| --- | --- | --- |
| Chrome | Version number < 42 | Version number >= 42 |
| Firefox | Version number < 52 | Version number >= 52 |
| Internet Explorer | All Versions | / |
| Edge | / | All Versions |

1. **Differences between plug-in version and plug-in free version**

| **Difference** | **Plug-in version of web browser** | **Plug-in free version of web browser** |
| --- | --- | --- |
| Channel navigation bar button | Included. | Not included. |
| Video overlay text | Included. | Not included. |
| Install plug-in to view channel video | Included. | Not included. |

1. **Functions supported by plug-in free version**

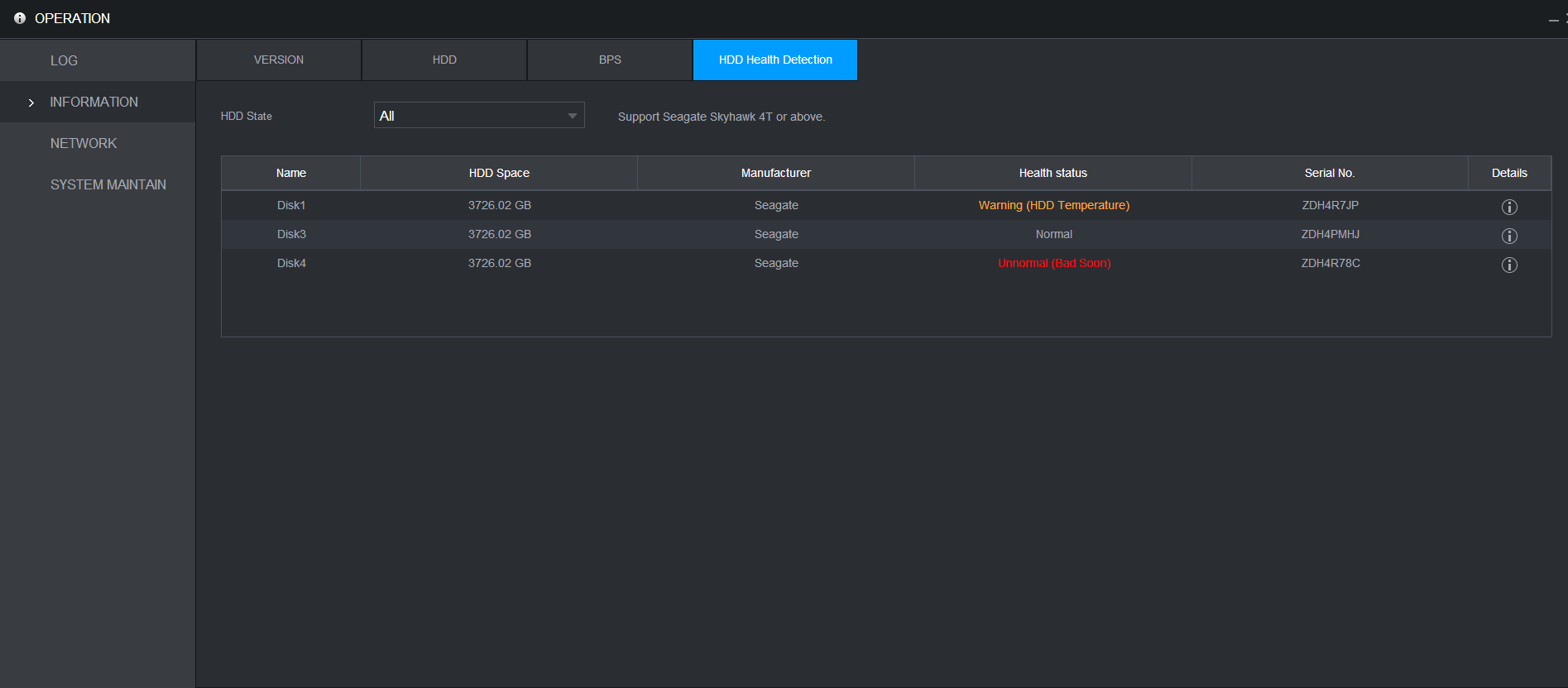
| **Function** | **Description** |
| --- | --- |
| Surveillance screen | Real-time surveillance（main stream, sub stream） |
| Full screen |
| Window split |
| Playback | Video playback |
| Full screen playback |
| Time bar |
| Record query |
| Remote device | Importing and exporting of remote devices |
| Configuration | Camera |
| OSD overlay |
| POS setup - POS position setting |
| Motion detection area setting |

### HDD Health Detection

1. **HDD Health Detection**

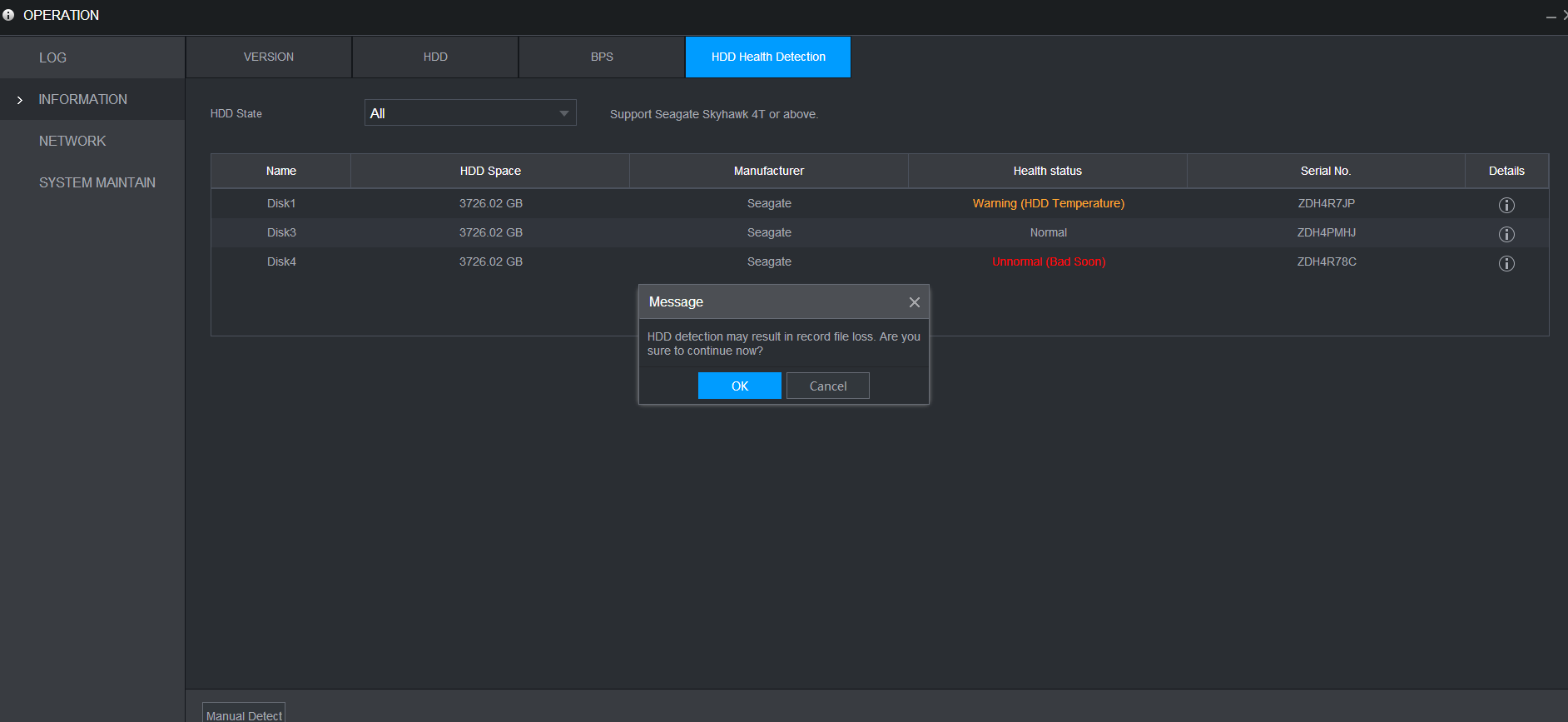
Supports displaying HDD health status of Seagate SKYHAWK series.

* HDDs are listed on the interface with information such as HDD space, manufacturer, serial number and health status.
* HDD health status: **Normal** (normal font), **Warning** (orange font), **Unnormal** (red font). Reasons for warnings and errors are displayed in **Health status** column.
* When a 20X error occurs, **Bad Soon** will be displayed in **Health status** column.



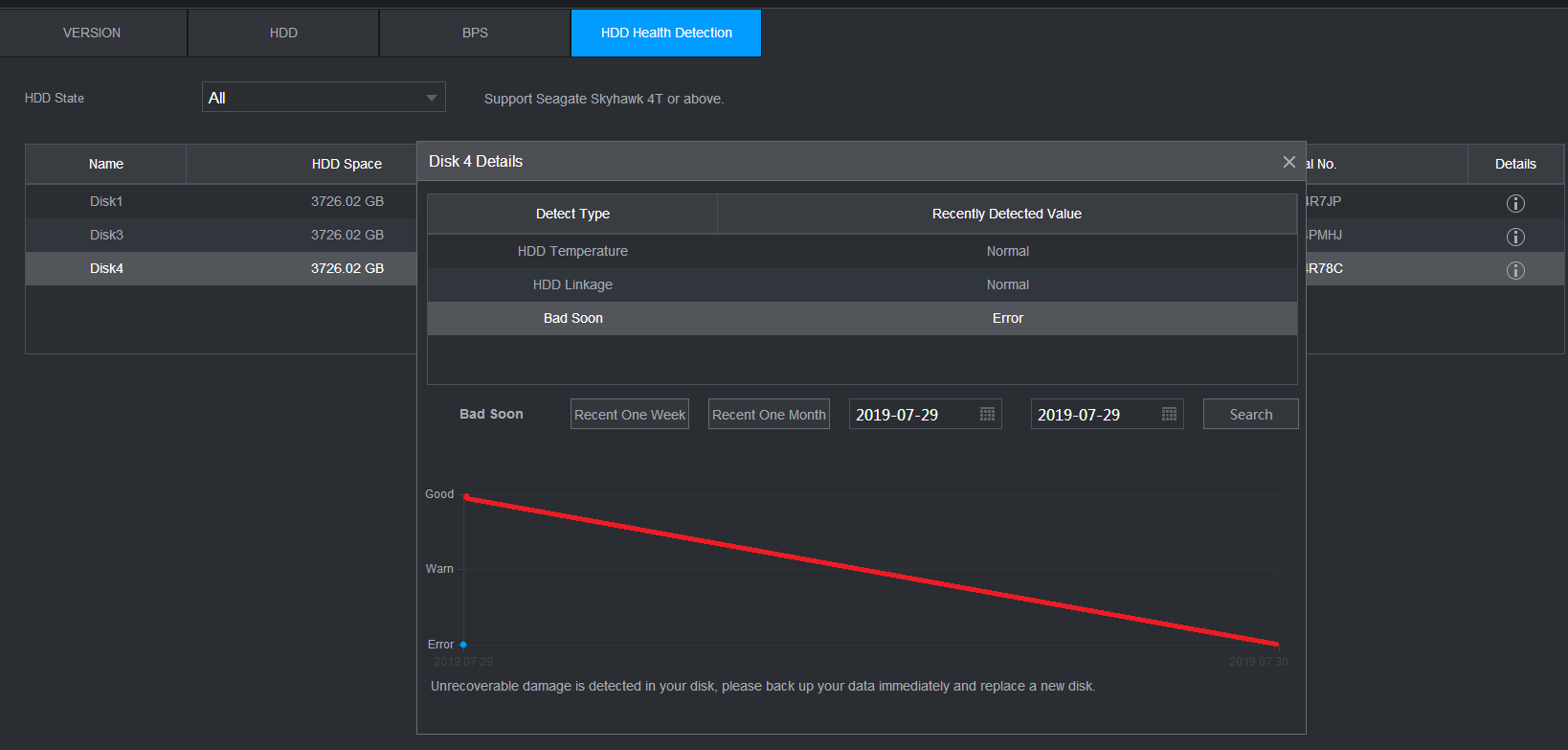
1. **Refreshing Health Status Manually**

Click **Manual Detect** at the lower-left corner of the interface to refresh health status detection.



1. **Disk Details**

* Double-click a HDD in the list to show detection diagram.
* In the details dialog box, you can find a table with **Detect Type** and **Recently Detected Value**. Select a row to show details of the corresponding parameter in a line chart below. You can click **Recent One Week**, **Recent One Month** or define a time frame (at most 1 year) to get details of the parameter in a specified period. The default period of time is one week.

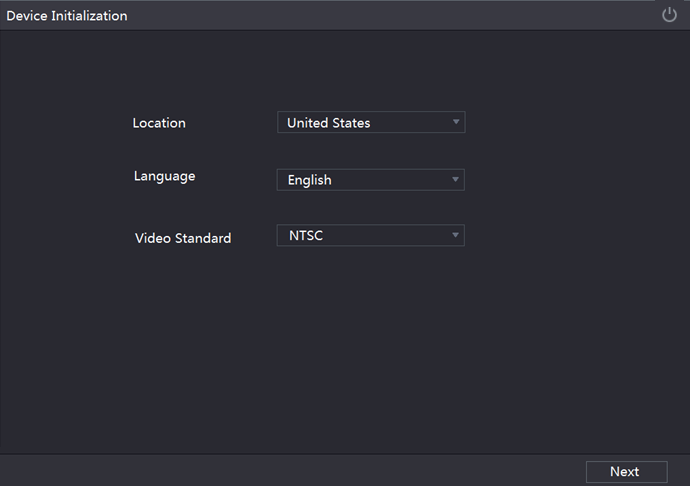


### Internationalization

Internationalization means that you can select location during the initialization of a device, and language and video standard will be matched automatically. Configurations such as language, video standard and system zone will be synchronized when connecting to front-end. The access to local GUI configuration is as follows:

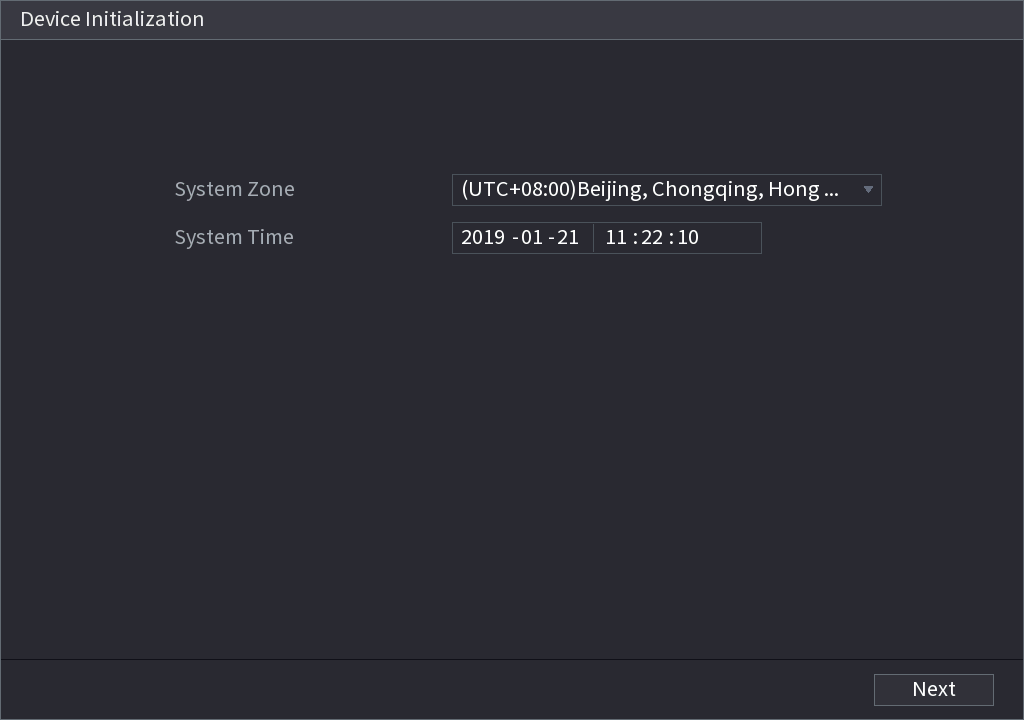
1. The device initialization process will start at the first boot, and you can select **Location** and **Video Standard** on the following interface.

Device initialization (1)



1. Select **System Zone** and **System** Time on the following interface.

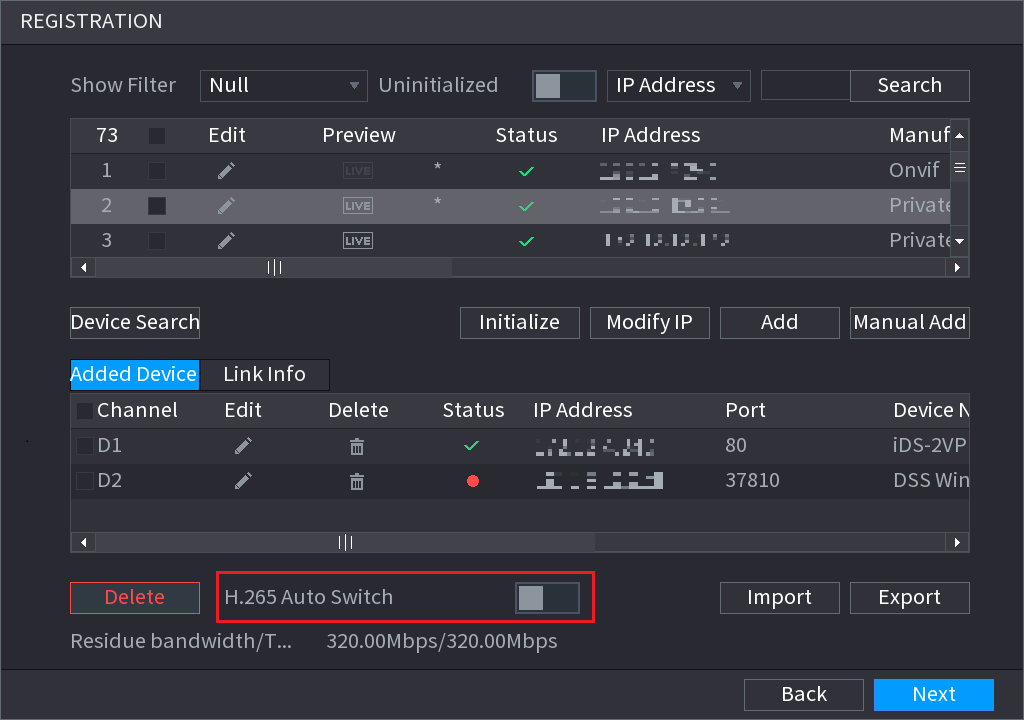
Device initialization (2)



### Switching to H.265 Automatically

After **H.265 Auto Switch** is enabled, remote devices supporting H.265 will be adjusted to H.265 encoding format automatically. You can enable **H.265 Auto Switch** on the following local GUI interface.

Registration



## Compatibility

After updating to latest new baseline version 4.0, user cannot update back to versions lower than version 4.0

## Software Environment

| Model | Version |
| --- | --- |
| DH-IPC-HFW2130M-AS-I1-0360B | 2.6.01.05.08450 DH\_IPC-HX2XXX-Eos4\_Chn\_PN\_V2.680.0000000.2.R.190410.zip |
| DH-IPC-HFW2230M-AS-I1-0360B-V2 | 2.6.01.05.08988 DH\_IPC-HX2XXX-Eris\_Chn\_PN\_V2.622.0000000.8.R.190420.zip |
| DH-IPC-HFW2220F-VFAS-2808 | 2.1.02.01.18067 DH\_IPC-HFW2XXX-Alps\_Chn\_PN\_V2.622.0000000.31.R.171229.zip |
| DH-IPC-HFW2433M-AS-I1-0360B | 2.6.01.05.08992 DH\_IPC-HX2XXX-Eris2\_Chn\_PN\_V2.622.0000000.8.R.190420.zip |
| DH-IPC-HDBW1230EP-0280B-S2 | 2.6.01.05.08459 DH\_IPC-HX1XXX-Eos4\_Eng\_P\_V2.680.0000000.2.R.190410.zip |
| DH-IPC-HFW2231TP-VFS-27135 | 2.6.01.05.07530 DH\_IPC-HX2X3X-Rhea\_MultiLang\_PN\_Stream2\_V2.800.0000005.0.R.190325.zip |
| DH-IPC-HFW2831TP-ZS-3711 | 2.6.01.05.06114 DH\_IPC-HX2(1)XXX-Sag\_EngSpnFrn\_NP\_V2.622.0000000.18.R.190109.zip |
| DH-SD6C82FB-GN DH-SD6C82E-GN | 2.6.02.05.00145 General\_SD6CXXX-GN-BM\_MCU\_V2.301.0000000.9.R.180814.zip |
| DH-SD6CE230U-HNI | 2.6.01.05.06726 DH\_SD-Eos\_MultiLang\_PN\_Stream3\_V2.623.0000000.17.R.190119.zip |
| DHI-DSS7016D-S2 | General\_OverseasDSS7016S2\_Eng\_Basic\_V1.000.0000000.0.R.20181130.tar.gz |
| DSS7016D-S2-I | During development. |
| DSSC9100/C9505 | During development. |
| IBSP-PRO | 2.7.01.07.00243 General\_iBSP\_Chn\_Oracle\_IS\_V4.000.0000001.0.R.20190122.tar.gz |
| H8900 | 2.7.01.08.00410 General\_DSS-H8900\_Chn\_Basic\_V3.001.0000001.7.R.20190131.tar.gz |
| NKB1000 | General\_NETKB1000\_Chn\_V2.610.0000.4.R.20161024.zip |
| NKB5000 | DH\_NKB5000\_Chn\_V3.210.0003.0.R.170930.BIN |
| NVD0405DH-4K | General\_NVD0405DH-4K\_Chn\_P\_V3.200.0002.00.R.20170713.zip |
| NVD0905DH-4I-4K | General\_NVD0905DH-4K\_Chn\_V3.200.0003.0.R.170509.BIN |
| SmartPSS | DH\_SmartPSS\_ChnEng\_Win32\_IS\_V2.02.0.R.171124.zip |
| DMSS | 2.1.02.01.10709 General\_DMSS-IOS-Phone-Lite-Device\_Internel\_Basic\_IS\_V3.24.000.R.140928.ipa |
| Player | General\_Player\_Chn\_WIN32\_V3.44.0.R.170421.zip |
| ConfigTool | General\_ConfigTool\_ChnEng\_V4.011.0000001.4.R.20190305.zip |
| NetSDK | General\_NetSDK\_Chn\_Win64\_IS\_V3.050.0000005.3.R.190225.7z |
| DiskManager |  |

## Pending Issues

None.

## Update Guide

None.

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