

Aug. 2023



# Technical Newsletter

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### Technical Information

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### Latest F/W Information

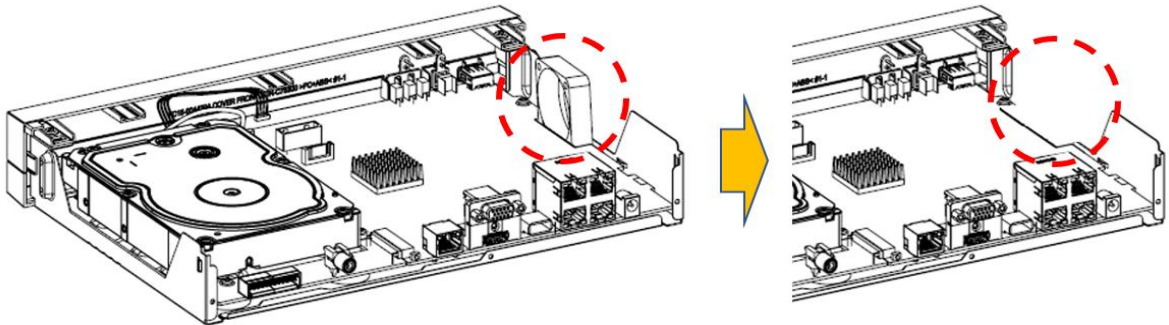
## Removing fan from one HDD NVR

Info. Type

☐ Quality ☐ Settings ☒ Repair ☐ S/W ☐ Etc

### 1. Changed feature

- To eliminate fan noise and A/S claims regarding the fan, the fan is removed from one HDD NVRs



[ Before : Fan embedded on the left side ]

[ After : Fan removed ]

### 2. Applied model

Series	Model	FW for Fanless
X Series	XRN-420S	XRN-420S_5.01.52_230626172530 or later
Q Series	QRN-830S, 430S	QRN-1630S_5.06.52_230626173233 or later
A Series	ARN-810S, 410S	ARN-1610S_5.31.42_230626174111 or later
Pentabrid	HRX-434	HRX-435_4.52.32_230626172548 or later

### 3. Repair guide

- Without fan

#### 1) Reported for fan defect

##### (1) Remove fan and update F/W(MUST!)

: Functions remain the same but only removed fan alarm feature

##### (2) Able to replace the fan : Recommended to update the F/W

#### 2) When replacing mainboard

##### (1) Remove fan and update F/W(MUST!)

. Fan connector is removed from new mainboard

##### (2) Not able to add fan

- Fanless : Not able to add fan

## Lens moisture at 1st installation of NW camera

Info. Type

☐ Quality ☐ Settings ☐ Repair ☐ S/W ☒ Etc

### 1. Applied model


- Network cameras(PTZ Camera , Bullet Camera , Dome/Vandal Camera)

### 2. Guide for initial installation

- Moisture on the lens surface may be observed right after initial installation of network cameras with power supplied
- Desiccant adsorbs the internal moisture and releases back when device temperature is increased due to power supply. the moisture on the lens surface would be dried-out in 2~3days.
- This moisture can be observed to gore vent applied product as well, and it is not a defect symptom

### 3. New desiccant(DesiKhan)

- Granule type made of natural mineral combination, service time extended more than 3times
- Replace desiccant once a year during storage, replace desiccant at installation if saturated

	Image	Remark
New desiccant		<ul style="list-style-type: none"> <li>. Moisture is solidified through a chemical reaction during moisture absorption to minimize re-discharge during drying out</li> <li>. Absorbs moisture about 80~110% of its own weight and releases about 20~30% of the absorbed moisture back to outside</li> <li>. Needs to be replaced if device was remained in stock for more than 12 month</li> </ul>
Part #	<b>DesiKhan 2.5g</b> (PM02-006317A 2ea packing, PM02-006172A 50ea packing) <b>DesiKhan 5g</b> (PM02-006316A 2ea packing, PM02-006173A 50ea packing)	

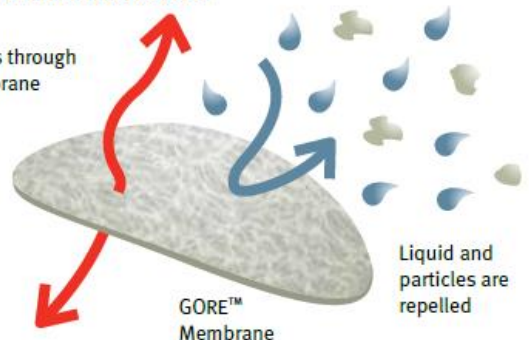
### 3. Gore Vent applied models

- By applying Gore Vent, product air permeability is increased to maintain internal and external pressure balance, prevent penetration of contaminated particles, and minimize condensation. Do not attach decicans to products applied with Gore Vent



#### Breathable Barrier Protection

Air passes through the membrane



## Device Certificate HTTP 80 port setting

Info. Type

☐ Quality ☒ Settings ☐ Repair ☐ S/W ☐ Etc

### 1. Applied model

- Models that are applicable for device certificate via Device Certificate Agent S/W

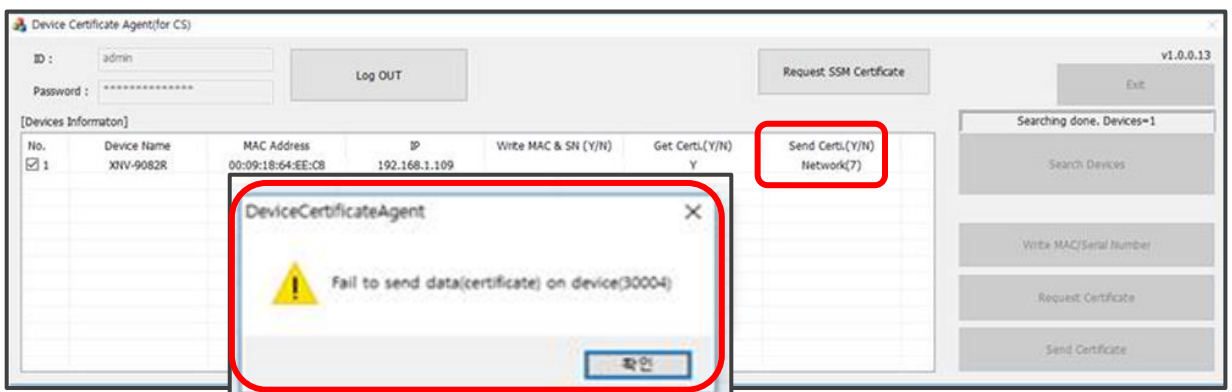
### 2. Device Certificate HTTP 80prot setting

- Reason for HTTP 80 port setting
- . Device Certificate Agent S/W is developed as to work at HTTP "80 port"
  - When inserting device certificate, it links to its HTTP port by using SUNAPI protocol
- Setting guide
- . Check if the device's HTTP port setting is '80 port'
- . If HTTP port is different than 80, it needs to be changed as 80



### 3. Network(7) error occurs if HTTP is not 80 port

- . Network(7) error occurs with "Fail to send data(certificate) on device(30004)" message pop-up



## DVR

Model	Filename	Date	Version	Release Note
HRX-420/421	HRX-421_3.05.42_220222110611	2022/03/07	3.05.42	- Fixed an issue where the wait icon was displayed intermittently for a long time when entering the playback screen
HRX-820/821 HRX-1620/1621	HRX-1621_3.05.42_220222110713			
HRX-434/435	HRX-435_4.52.22_230206120433	2023/02/28	4.52.22	- HDD performance improved
HRX-1632 HRX-835	HRX-1632_4.52.22_230210101358			
HRX-1634/1635 HRX-835A	HRX-1635_5.31.22_230525155530	2023/06/13	5.31.22	- Addressed an issue where DDNS ID was occasionally not issued

## NVR

Model	Filename	Date	Version	Release Note
XRN-820S XRN-1620SB1/B2 XRN-3210B2/RB2/B4 XRN-6410B2/RB2 XRN-6410B4/DB4 PRN-1600B2 PRN-3200B2/B4 PRN-6400B4/DB4	PRN-6400DB4_5.30.52_230525155339	2023/06/13	5.30.52	- Addressed an issue where DDNS ID was occasionally not issued
QRN-430S XRN-420S	XRN-420S_5.01.42_230525153459	2023/06/13	5.01.42	
QRN-830S QRN-1630S XRN-815S	QRN-1630S_5.06.42_230525162641	2023/06/13	5.06.42	
LRN-1610S	LRN-1610S_3.06.22_220318102605	2022-04-04	3.06.22	<ul style="list-style-type: none"> <li>- Fixed an issue where an IP assignment error occurs from time to time when using the DHCP client mode.</li> <li>- Fixed an issue where recording device is being booted when some cameras are connected via ONVIF.</li> <li>- Fixed an issue where a video cannot be received when some cameras are connected via ONVIF.</li> </ul>
QRN-1620S	QRN-1620S_3.06.22_220318102444			
QRN-420S/820S	QRN-820S_3.07.22_220318111808		3.07.22	
XRN-1610/A XRN-1610S/SA	xrn-1610s-pkg_v2.48_210621173533	2021/06/30	2.48	- Added USB device format on backup menu
XRN-2010/A XRN-2011A	xrn-2010-pkg_v2.46_210315134145	2021/06/14	2.46	<ul style="list-style-type: none"> <li>- Decoding improvements on WN7 camera H.265</li> <li>- Improved ONVIF third-party camera reboot</li> <li>- Fixed Web server responding issues</li> <li>- Fixed HDD No. to be logged in the event of HDD problems</li> </ul>
XRN-3010A	xrn-3010-pkg_v2.46_210315134112	2021/06/14	2.46	
XRN-410S/810S	XRN-X10X-PKG_v2.46_210204185920	2021/02/26	2.46	- Fixed the issue where some of the H.265 video resolutions transmitted from Wisenet 7 camera were unable to be decoded

## Network Camera

Model	Filename	Date	Version	Release Note
LND/O/V-6012R/6022R/6072R LND-6032R	LNO-6072R_1.41.12_20230426_R149	2023/05/09	1.41.12	<ul style="list-style-type: none"> <li>- Fixed a problem that the NTP server time was not reset to match the changed NTP server when the NTP server address setting was changed</li> <li>- Added option to grant user permission to access and set settings on [Video profile], [Camera setup], and [Video and focus setup] ([Video setup] for models that do not support focus function) pages</li> </ul>
PNM-12082RVD	PNM-12082RVD_2.21.00_20220420_R134	2022-05-20	2.21.00	<ul style="list-style-type: none"> <li>- Improved initial focus</li> </ul>
PNM-7082RVD	PNM-7082RVD_2.21.00_20220414_R104	2022-05-20	2.21.00	
PNM-8082VT	PNM-8082VT_2.01.01_20210324_R175	2021/05/12	2.01.01	<ul style="list-style-type: none"> <li>- Improved the issue of camera time failing to periodically sync with that of the NTP server</li> </ul>
PNM-9002VQ	PNM-9002VQ_2.22.00_20230418_R77	2023/05/01	2.22.00	<ul style="list-style-type: none"> <li>- When setting the H.264/H.265 codec, you can set 10 kbps as the minimum bitrate.</li> </ul>
PNM-9084QZ(RQZ)/1 PNM-9085RQZ/1	PNM-9084QZ_2.22.00_20230418_R371	2023/05/01	2.22.00	<ul style="list-style-type: none"> <li>- Displays the company name as Hanwha Vision in the web viewer</li> <li>- Added a function to configure the MTU (Maximum Transmission Unit) size between 1,280 and 1,500 in [Setup] &gt; [Basic] &gt; [IP &amp; Port] &gt; [IP address]</li> <li>- Fixed an issue where video streaming was interrupted for the live and recording in the camera registered to NVR or Genetec</li> <li>- Fixed an issue where firmware issued after 2022 did not upgrade properly</li> <li>- Fixed a problem where the certificate was not used normally when uploading a certificate with a '+' sign</li> <li>- Fixed an error where commands operate with a modified packet</li> <li>- Fixed an error where ONVIF discovery communication was not available between a camera and Wisenet Device Manager in a certain circumstance</li> </ul>
PNM-9322VQP	PNM-9322VQP_2.22.00_20230418_R151	2023/05/01	2.22.00	
PNM-9022V	PNM-9022V_2.01.02_20230404_R149	2023/05/11	2.01.02	<ul style="list-style-type: none"> <li>- When setting the H.264/H.265 codec, you can set 10 kbps as the minimum bitrate.</li> </ul>
PNM-9031RV	PNM-9031RV_2.22.00_20230418_R534	2023/04/26	2.22.00	<ul style="list-style-type: none"> <li>- Improved functionality to obtain TTA security certification</li> <li>- Fixed an issue where Pan and Tilt operate beyond the maximum Pan/Tilt movement range set in the [PT Limit] menu</li> <li>- Fixed an issue where [Loitering] event was continuously sent to the NVR even though the loitering event had ended</li> </ul>
PND-A6081RV/RF PNO/V-A6081R	PNO-A6081R_2.11.03_20220519_R216	2022/06/09	2.11.03	<ul style="list-style-type: none"> <li>- Fixed timestamp errors</li> </ul>
PND-A9081RV /RF PNO/V-A9081R	PNO-A9081R_2.11.10_20220519_R614	2022/06/09	2.11.10	
QNF-8010	QNF-8010_2.10.02_20220401_R411	2022/04/20	2.10.02	<ul style="list-style-type: none"> <li>- Added certificate management function</li> </ul>
QNF-9010	QNF-9010_2.11.02_20220412_R437_1	2023/06/20	2.11.02	<ul style="list-style-type: none"> <li>- Added an option to choose a TLS version</li> <li>- Enhanced security feature</li> </ul>
QND/O/V-6012R1/6022R1/6072R1/6082R1	QNO-6082R1_1.41.05_20230426_R32	2023/05/09	1.41.05	<ul style="list-style-type: none"> <li>- Fixed a problem that the NTP server time was not reset to match the changed NTP server when the NTP server address setting was changed</li> <li>- Added option to grant user permission to access and set settings on [Video profile], [Camera setup], and [Video and focus setup] ([Video setup] for models that do not support focus function) Pages</li> <li>- Fixed an error where [Tampering detection] function did not operate after a certain time</li> <li>- Added the ability to set the minimum bitrate of a profile to 10 kbps</li> </ul>
QNP-6250(H) QNP-6320(H/R)	QNP-6320H_2.21.02_20220809_R199	2022/09/05	2.21.02	<ul style="list-style-type: none"> <li>- Added auto tracking function</li> <li>- When you set the privacy zone, the privacy zone now becomes transparent while setting the zoom threshold</li> </ul>



## Network Camera

Model	Filename	Date	Version	Release Note
QND-6011/6021 QNO-6032R QND/O/V-6012R/6022R/ 6072R/6082R	QNO-6082R_1.41.15 _20230623_R379	2023/07/06	1.41.15	-Added options to c onfigure GOV, dynamic GOV, and dynamic FPS settings of the recording. In case of configuration, however, the video may not be recorded properly.
QND/O/V- 8010R/8020R/8080R QND-8011/8021 QNE-8011R/8021R	QNO-8080R_1.41.06 _20230623_R343	2023/07/06	1.41.06	- Fixed an issue where the camera failed to reconnect to a NAS device after disconnecting from it. It now tries to reconnect every 30 seconds for 10 minutes and every 10 minutes thereafter.
QND/O/V- 7012R/7022R/7032R/7082R	QNO-7082R_1.41.06 _20230623_R143	2023/07/06	1.41.06	
XNB-6001	XNB-6001_2.10.04 _20230516_R574	2023/06/02	2.10.04	- When setting the H.264/H.265 codec, you can set 10 kbps as the minimum bitrate.
XNO-6080R/XNB-6000	XNB-6000_2.10.05 _20230516_R685	2023-06-02	2.10.05	
XNO-8080R/XNB-8000	XNB-8000_2.10.03 _20220822_R704	2022/09/15	2.10.03	
XNV-6080(R/RSA) XND-6080 (R/V/RV)	XND-6080_2.10.04 _20230516_R578	2023/06/02	2.10.04	
XNO/V-6120R	XNO-6120R_2.10.04 _20230516_R562	2023/06/02	2.10.04	
XND/V-6020R	XND-6020R_2.10.02 _20220401_R596	2022/04/20	2.10.02	- Added certificate management function - Added [Exclusive PTZ control] function to give priority to PTZ control to a specific user and restrict control commands of other users - Added new options such as [Query string] and [TCP message], etc for [Handover] settings - Added the option to use the Internet Control Message Protocol (ICMP) timestamp request message - Fixed to move the location of the overlay image using the cursor - Adjusted the RTP Payload buffer to improve compatibility with specific NVRs - Improved Web UI for selecting TLS protocol version to use for encrypted communication
XNO-6085R/XNB-6005	XNB-6005_2.10.02 _20220329_R589	2022/04/20	2.10.02	
XND/O/V-L6080(V/R)	XNV-L6080R_2.10.02 _20220401_R578	2022/04/20	2.10.02	
XND-6081V(RV/RF) XNV-6081R	XND-6081RV_2.10.02 _20220329_R469	2022/04/20	2.10.02	
XND-8020R/8030R/8040R XNV-8020R/8030R	XND-8020R_2.10.02 _20220401_R599	2022/04/20	2.10.02	
XND-8080R(RV) XNV-8080R(RSA)	XND-8080R_2.10.02 _20220401_R615	2022/04/20	2.10.02	
XNP-6120H	XNP-6120H_2.10.02 _20220324_R696	2022/03/24	2.10.02	
XNV-6011(W)	XNV-6011_2.10.02 _20220117_R573	2022/01/17	2.10.02	
XND/O/V-6083R(RV)	XND-6083RV_2.22.03 _20230711_R319	2023/07/21	2.22.03	
XND/O/V-8082/9082(R/RV/RF)	XNV-9082R_2.22.02 _20230623_R464	2023/07/04	2.22.02	- Fixed an issue where the web page was not opened after a virtual channel was added to it - Fixed an issue with non fixed index values - Fixed an issue where the IP Wisenet speaker was not connected to the camera - Fixed an issue where Wise stream did not work in the record profile
XND/O/V- 8083R(RV)/9083R(RV)	XND-9083RV_2.22.03 _20230711_R331	2023/07/21	2.22.03	
XND-C6083RV/C7083RV XNV/O-C6083R/C7083R	XND-C7083RV_2.22.02 _20230623_R400	2023/07/04	2.22.02	
XND-C8083RV/C9083RV XNV/O-C8083R/C9083R	XND-C9083RV_2.22.02 _20230623_R415	2023/07/04	2.22.02	
XNF-9010RV/RS/RVM	XNF-9010RV_2.22.02 _20230623_R441	2023/07/04	2.22.02	
XNF-8010R(RV/RW/RVM)	XNF-8010R_2.10.04 _20230328_R640	2023/05/11	2.10.04	- When setting the H.264/H.265 codec, you can set 10 kbps as the minimum bitrate.
XNP-6400(R)/ 8250(R)/9250(R)	XNP-9250R_2.22.00 _20230418_R330	2023/04/26	2.22.00	- Improved functionality to obtain TTA security certification - Fixed an issue where Pan and Tilt operate beyond the maximum Pan/Tilt movement range set in the [PT Limit] menu - Fixed an issue where [Loitering] event was continuously sent to the NVR even though the loitering event had ended

## Encoder / Decoder

Model	Filename	Date	Version	Release Note
SPD-150	SPD-150-PKG_v1.06 _210504171045	2021/05/11	1.06	- Fixed an issue where the profile of Live4NVR is created by default every time the camera is registered, causing the user's profile settings to reset.
SPD-151	SPD-151-PKG_v1.04 _210114190022	2021/02/01	1.04	- Fixed an issue where some H.265 resolutions could not be decoded in Wisenet 7 cameras.
SPD-1660R	SPD-1660R-PKG_v2.12 _210114194116	2021/02/01	2.12	- Fixed an issue where video is not displayed once in a while when switched to layout after connecting to SSM.
SPD-152	SPD-152_5.10.32 _230508130731	2023/05/10	5.10.32	- Deleted the function of synchronizing a decoder SPD-152 with a camera audio - Enable the sequence to operate in the latest layout configuration when the decode restarts after it reboots in operation of layout sequence functions - Increased the maximum number of layouts from 10 to 20 for layout configuration and operation of layout sequence
SPE-110	SPE110_1.31 _200310_1700	2020/03/25	1.31	- Supports video output setup
SPE-1610	SPE1610_1.31 _200310_1706	2020/03/25	1.31	- Provides the notification message "Live video cannot be played" on maximum streaming
SPE-1620	SPE-1620_2.21.01 _20230712_R194	2023/07/24	2.21.01	- Added a time-OSD feature that displays "mm-dd-yy h:m." Using this feature, however, halves the maximum encoding specification limits. (MJPEG not supported) - Addressed the vulnerability of DoS of WS Discovery and Hanwha proprietary discovery services where the discovery function may be disabled after EMPTY packets are injected into the 3702 / 7701 ports used for device discovery of ONVIF/Device Manager. (Issued CVE-2023-31994) - Fixed an issue where the camera did not stop moving even after you stopped manipulating the joystick while moving an analog PTZ camera with the joystick connected to an NVR
SPE-1630	SPE-1630_2.21.01 _20230309_R149	2023/03/24	2.21.01	- Added a function to display the time in "Month-Day-Year Hour:Minute" format if H.264 or H.265 codec is applied - Fixed an error where ONVIF discovery communication was not available between a camera and Wisenet Device Manager in a certain circumstance
SPE-410	spe410_1.31 _200310_1655	2020/03/25	1.31	- Added a function to display the time in "Month-Day-Year Hour:Minute" format if H.264 or H.265 codec is applied - Fixed an error where ONVIF discovery communication was not available between a camera and Wisenet Device Manager in a certain circumstance
SPE-420	SPE-420_2.11.03 _20220426_R142	2022/05/18	2.11.03	- Fix the problem that when you change the external PTZ connection port to COAX for all channels, the external PTZ settings item disappears in the webviewer

## Software

Model	Filename	Date	Version
Wisenet SSM	2.13.01	2023/06/08	- Bug fixes and functional improvements
Wisenet Viewer	1.04.00	2023/02/23	- Bug fixes and functional improvements
Smart Viewer	4.9.13	2022/05/18	- Bug fixes and functional improvements
Wisenet mobile	2.06.01	2023/06/23	- Bug fixes and functional improvements

## HDD Compatibility List

Revision 11.15

Release date : 2023.07.05

[Hanwhavision.com](http://Hanwhavision.com) > Support > Data Center > HDD Compatibility

☐ Major change

1. XRP-4310DB4, XRP-4210B4 HDD 호환성 모델 추가

-> ST6000NM019B , HUS728T8TALE6L4, ST16000NM000J