

May 2023



# Technical Newsletter

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### Technical Information

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- Fisheye cameras mounting mode setup(NVR/SSM)
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### Latest F/W Information

## Introducing of new desiccant part

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Info. Type

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

1. **Model** : All devices applied with desiccant

### 2. Comparison of desiccants

- Before: 'DESI PAK'(Clay texture bentonite) → New: DesiKhan(Compound of special polymer)

	Before: DESI PAK	New: DesiKhan
Image		
Property	<ul style="list-style-type: none"> <li>. Made from a natural clay mineral bentonite(Expandable minerals consisting of silica and aluminum)</li> <li>. Absorbed moisture is slowly released back to outside when drying out</li> <li>. Absorbs moisture about 20~30% of its own weight and releases about 50% of the absorbed moisture back to outside</li> </ul>	<ul style="list-style-type: none"> <li>. Granule type made of natural mineral combination such as bentonite, calcium and etc.</li> <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> </ul>
Replacement	Needs to be replaced if device was remained in stock for more than 6 month	Needs to be replaced if device was remained in stock for more than 6 month

### 3. Part information of new desiccant

- **Part code : PM02-006316A**

- Name : DESIKHAN-HM-5G-2EA-PACKING

- Spec : 5G(PM02-006173A) X 2EA

- Packaging : Vacuum packaging 5g DesiKhan 2EA



#### ※ Bulk packaging(50pcs)

- Check the color of 'HUMIDITY INDICATING': Green(Good to use), Purple(Needs to be disposed)
- Store DesiKhan in airtight container after opening the packaging (Dispose after 24hrs)



## Fisheye cameras mounting mode setup

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Info. Type



Quality



Settings



Repair



S/W



Etc

1. **Model** : Fisheye cameras

2. **Purpose** : Installation guide for fisheye camera's mounting mode when registered on NVR to SSM

### 3. Applied case

- Fisheye camera is registered on NVR, and the NVR is registered on a separate SSM PC

※ Notice : Does not apply to a case when Fisheye camera is registered directly on SSM PC or appliance device

### 4. How to set mounting mode

- Configuration → Device → Registration → NVR registered camera → Camera info → general

Camera type	Fisheye dewarp	Camera type	Fisheye dewarp
Mounting mode	Wall	Mounting mode	Wall
Shortcut		Shortcut	Wall
Description		Description	Ceiling
			Ground

### 5. Check point

- Fisheye camera's default mounting mode is 'Wall'
- Mounting mode should be adjusted to fit to installation environment
- If not adjusted properly, dewarping view can be displayed as below scene



## x86 NVR Firmware update

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Info. Type

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

### 1. Model

Model	Previous	New
PRN-6410DB4, PRN-6400DB4, PRN-6405DB4, PRN-6410B4, PRN-6400B4, PRN-6405B4, PRN-3210B4, PRN-3200B4, PRN-3205B4, PRN-3210B2, PRN-3200B2, PRN-3205B2, PRN-1610B2, PRN-1600B2, PRN-1605B2  XRN-6410DB4, XRN-6410B4, XRN-3210B4 XRN-6410RB2, XRN-3210RB2, XRN-6410B2, XRN-3210B2 XRN-1620B2, XRN-1620SB1, XRN-820S	v 5.30.32	<b>v 5.30.42</b>

#### - Notice : Must use bridge FW for below case

- . 4.02.00(or lower) version firmware: Update to bridge FW(v4.05.12) -> to latest  
E.g.) v4.02.00(or lower) firmware → update in order Bridge v4.05.12 → v5.30.42

### 2. Release schedule : Apr 2023

### 3. Contents (Refer to release note for detail)

	Contents
Error fix	<ul style="list-style-type: none"> <li>- <b>Fixed intermittent mouse click-free issues in live full mode</b></li> <li>- Fixed an error with the event time output when searching for SSM POS</li> <li>- Improved error that camera HTTPS image was unable to receive</li> <li>- Fix image reception error when registering RTSP UDP multicast URL</li> <li>- Fixed an error that "image loss" was displayed during sequence operation</li> </ul>
Improvement /Etc	<ul style="list-style-type: none"> <li>- <b>When experiencing "HDD error " or "HDD check required," leave log with faulty HDD number</b></li> <li>- Changed company name to Hanwha Vision for ONVIF</li> </ul>

## Latest F/W Information

### DVR

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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_5.31.11_230328135226	2023/04/13	5.31.11	- Added new features and bug fixed, find release note for detail

### 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_5.30.32_230222124325	2023/02/28	5.30.32	- Added a function to turn on the alarm LED when an HDD error, recording error, or alarm input (storage device) event occurs  - Fixed an error where dual recording is missing when formatting HDD through the installation wizard
QRN-430S XRN-420S	XRN-420S_5.01.32_230206102106	2023/02/28	5.01.32	- HDD performance improved
QRN-830S QRN-1630S XRN-815S	QRN-1630S_5.06.32_230206123427	2023/03/28	5.06.32	- HDD performance improved
LRN-1610S	LRN-1610S_3.06.22_220318102605	2022-04-04	3.06.22	- Fixed an issue where an IP assignment error occurs from time to time when using the DHCP client mode. - Fixed an issue where recording device is being booted when some cameras are connected via ONVIF. - Fixed an issue where a video cannot be received when some cameras are connected via ONVIF.
LRN-410S/810S	LRN-810S_3.06.22_220318111208			
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	- Decoding improvements on WN7 camera H.265 - Improved ONVIF third-party camera reboot
XRN-3010A	xrn-3010-pkg_v2.46_210315134112	2021/06/14	2.46	- Fixed Web server responding issues - Fixed HDD No. to be logged in the event of HDD problems
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

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Model	Filename	Date	Version	Release Note
LND/O/V-6012R/6022R/6072R LND-6032R	LNO-6072R_1.41.11 _20220114_R134	2022/02/07	1.41.11	- After a factory reset, the motion detection setting is enabled by default
PNM-12082RVD	PNM-12082RVD_2.21.00 _20220420_R134	2022/05/20	2.21.00	- Improved initial focus
PNM-7002VD	PNM-7002VD_1.33.01 _20220419_R51	2022/04/22	1.33.01	- Improved manufacturing and process efficiency
PNM-7082RVD	PNM-7082RVD_2.21.00 _20220414_R104	2022-05-20	2.21.00	- Improved initial focus
PNM-8082VT	PNM-8082VT_2.01.01 _20210324_R175	2021/05/12	2.01.01	- Improved the issue of camera time failing to periodically sync with that of the NTP server
PNM-9000VD	PNM-9000VD_1.32.01 _20200825_R198	2020/10/26	1.32.01	- Reboot all channels when changing Hallway view setting
PNM-9002VQ	PNM-9002VQ_1.33.01 _20220419_R49	2022/04/22	1.33.01	- Improved manufacturing and process efficiency
PNM-9022V	PNM-9022V_2.01.01 _20210324_R143	2021/05/12	2.01.01	- Improved the issue of camera time failing to periodically sync with that of the NTP server
PNM-9031RV	PNM-9031RV_2.11.04 _20221115_R526.zip	2022/12/07	2.11.04	- Added the UI to adjust the video image position of each sensor in order to correct the alignment of the video images - Fixed timestamp errors
PNM-9084QZ(RQZ)/1 PNM-9085RQZ/1	PNM-9084QZ_1.31.12 _20220627_R348	2022/07/06	1.31.12	- Enhanced compatibility on ONVIF (based on ONVIF Device Test Tool v21.12)
PNM-9322VQP	PNM-9322VQP_1.33.03 _20220420_R128	2022/05/04	1.33.03	- Fixed the problem that the multicast was not working
PND-A6081RV/RF PNO/V-A6081R	PNO-A6081R_2.11.03 _20220519_R216	2022/06/09	2.11.03	- Fixed timestamp errors
PND-A9081RV PNO/V-A9081R	PNO-A9081R_2.11.10 _20220519_R614	2022/06/09	2.11.10	- Fixed timestamp errors
QND/O/V-7080R	QND7080R_Series_4.01_210706	2021/08/06	4.01	- Updated the unique certificate (expiration date: 2051-04-08)
QNF-8010	QNF-8010_2.10.02 _20220401_R411	2022/04/20	2.10.02	- Added certificate management function
QNF-9010	QNF-9010_2.11.02 _20220412_R437	2022/05/04	2.11.02	- Bug fixes and functional improvements
QND-6011/6021 QNO-6032R QND/O/V-6012R/6022R/ 6072R/6082R	QNO-6082R_1.41.14 _20230316_R358	2023/03/28	1.41.14	- Fixed language error in Japanese version - Fixed an error where [Tampering detection] function did not operate after a certain time - Added the ability to set the minimum bitrate of a profile to 10 kbps - Added the ability to use HTTP and HTTPS at the same time - Fixed an error where the SNMP port opens while SNMP does not operate - Fixed an error where commands operate with a modified packet - Fixed an error where ONVIF discovery communication was not available between a camera and Wisenet Device Manager in a certain circumstance - Removed unnecessary PHP scripts
QND/O/V-8010R/8020R/8080R QND-8011/8021 QNE-8011R/8021R	QNO-8080R_1.41.05 _20230316_R321	2023/03/28	1.41.05	- Fixed an error where commands operate with a modified packet - Fixed an error where ONVIF discovery communication was not available between a camera and Wisenet Device Manager in a certain circumstance - Removed unnecessary PHP scripts
QND/O/V-6012R1/6022R1/6072R1/6082R1	QNO-6082R1_1.41.01 _20211012_R19	2021/10/22	1.41.01	- Bug fixes and functional improvements
QND/O/V-7012R/7022R/7032R/7082R	QNO-7082R_1.41.03 _20220712_R112	2022/07/28	1.41.03	- 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
QNP-6250(H) QNP-6320H	QNP-6320H_2.21.02 _20220809_R199	2022/09/05	2.21.02	- Added auto tracking function



## Network Camera

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Model	Filename	Date	Version	Release Note
XNB-6001	XNB-6001_1.40.04_20210420_R394	2021/05/14	1.40.04	- Fixed an issue where the camera would not reboot when changing to a head-separated model lens
XNB-6000 XNO-6080R	XNB-6000_2.10.03_20220822_R676	2022/09/15	2.10.03	- Added setting option to enable or disable simple focus function after
XNB-8000 XNO-8080R	XNB-8000_2.10.03_20220822_R704	2022/09/15	2.10.03	
XND/V-6010	XND-6010_2.10.02_20220401_R609	2022/04/20	2.10.02	<ul style="list-style-type: none"> <li>- Added certificate management function</li> <li>- Added [Exclusive PTZ control] function to give priority to PTZ control to a specific user and restrict control commands of other users</li> <li>- Added new options such as [Query string] and [TCP message], etc. for [Handover] settings</li> <li>- Added the option to use the Internet Control Message Protocol (ICMP) timestamp request message</li> <li>- Fixed to move the location of the overlay image using the cursor</li> <li>- Adjusted the RTP Payload buffer to improve compatibility with specific NVRs</li> <li>- Improved Web UI for selecting TLS protocol version to use for encrypted communication</li> </ul>
XND-6020R XNV-6020R	XND-6020R_2.10.02_20220401_R596	2022/04/20	2.10.02	
XNV-6080(R/RSA) XND-6080 (R/V/RV)	XND-6080_2.10.02_20220117_R567	2022/02/07	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	
XNO/V-6120R	XNO-6120R_2.10.02_20220117_R551	2022/02/07	2.10.02	
XNP-6120H	XNP-6120H_2.10.02_20220324_R696	2022/03/24	2.10.02	
XNP-6040H	XNP-6040H_2.10.02_20220324_R611	2022/04/20	2.10.02	
XNP-6320(H/HS) XNP-6321H QNP-6230(H)	XNP-6320_2.10.02_20220324_R614	2022/04/20	2.10.02	
XNV-6011(W)	XNV-6011_2.10.02_20220117_R573	2022/01/17	2.10.02	
XND-C6083RV/C7083RV XNV/O-C6083R/C7083R	XND-C7083RV_2.22.00_20230228_R364	2023/03/15	2.22.00	<ul style="list-style-type: none"> <li>- Added an event rule function. You can register a trigger for each event rule and set an event action for the camera when an event occurs.</li> <li>- Added support for the ONVIF profile M function.</li> <li>- Added support for the MQTT protocol.</li> <li>- Added support for the CDP protocol used in CISCO switches.</li> <li>- Added support for Japanese in OSD.</li> <li>- If you select the edge record profile, you can select GOV length, dynamic GOV and entropy coding.</li> <li>- When setting the H.264/H.265 codec, you can set 10 kbps as the minimum bitrate.</li> <li>- Added an item to control camera functions by users since the user authority is enhanced.</li> </ul>
XND-C8083RV/C9083RV XNV/O-C8083R/C9083R	XND-C9083RV_2.22.00_20230228_R382	2023/03/15	2.22.00	
XNF-9010RV/RS/RVM	XNF-9010RV_2.22.00_20230228_R407	2023/03/15	2.22.00	
XNB-8002/9002 XND-8082RV/9082RV XNO/V-8082R/9082R	XNV-9082R_2.22.00_20230216_R418	2023/03/15	2.22.00	<ul style="list-style-type: none"> <li>- Added certificate management &amp; Exclusive PTZ control function</li> <li>- Added a function to add virtual channels to show the dewarped video of the fisheye camera</li> </ul>
XNF-8010R(RV/RW/RVM)	XNF-8010R_2.10.03_20221227_R634	2023/01/16	2.10.03	
XNP-6400(R)/ 8250R/9250R	XNP-9250R_2.01.07_20230323_R329	2023/04/18	2.01.07	<ul style="list-style-type: none"> <li>- Improved functionality to obtain TTA security certification</li> <li>- Fixed language error in Japanese version</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>
XNZ-L6320A	XNZ-L6320A_2.11.01_20220719_R85	2022/08/04	2.11.01	- Fixed timestamp errors

## Latest F/W Information

### Encoder / Decoder

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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_5.10.21 _230201102407	2023-02-09	5.10.21	- SPD-152 and SSM compatibility - Add [2x3] option among fixed layout options - Add [3 seconds] during layout sequence options - Add [Snapshot Preview] to the camera manual registration page in the SPD-152 Web Viewer
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	2.11.02_20220426	2022/04/26	2.11.02	- Improved Genetec compatibility
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	2.12.00	2023/02/03	- Bug fixes and functional improvements
Wisenet Viewer	1.03.00	2023/02/13	- Bug fixes and functional improvements
Smart Viewer	4.9.13	2022/05/18	- Bug fixes and functional improvements
WiseNet mobile	2.05.03(Android)	2022/11/17	- Bug fixes and functional improvements
	2.05.03(iOS)	2022/11/17	

### HDD Compatibility List

Revision 11.14

Release date : 2023.04.18

<https://www.hanwha-security.com/en/support/data-center/hdd-compatibility/>

☐ Major change

1. HRD-435FN 6TB support -> Does not support

2. HRX-1632 -> ARD-1610