



May 2023



Technical Newsletter

May Contents

Technical Information

- Introducing of new desiccant part
- Fisheye cameras mounting mode setup(NVR/SSM)
- x86 NVR Firmware update

Latest F/W Information

Technical Information

Introducing of new desiccant part

Technical Newsletter May 2023

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"> Made from a natural clay mineral bentonite(Expandable minerals consisting of silica and aluminum) Absorbed moisture is slowly released back to outside when drying out Absorbs moisture about 20~30% of its own weight and releases about 50% of the absorbed moisture back to outside | <ul style="list-style-type: none"> Granule type made of natural mineral combination such as bentonite, calcium and etc. Moisture is solidified through a chemical reaction during moisture absorption to minimize re-discharge during drying out Absorbs moisture about 80~110% of its own weight and releases about 20~30% of the absorbed moisture back to outside |
| 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)



Technical Information

Fisheye cameras mounting mode setup

Technical Newsletter May 2023

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



Technical Information

x86 NVR Firmware update

Technical Newsletter May 2023

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 | v 5.30.32 | v 5.30.42 |
| XRN-6410DB4, XRN-6410B4, XRN-3210B4 XRN-6410RB2, XRN-3210RB2, XRN-6410B2, XRN-3210B2 XRN-1620B2, XRN-1620SB1, XRN-820S | | |

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

Latest F/W Information

DVR

Technical Newsletter May 2023

| Model | Filename | Date | Version | Release Note |
|------------------------------|-----------------------------------|------------|---------|---|
| HRX-420/421 | HRX-421_3.05.42 _220222110611 | | | - 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 | 2022/03/07 | 3.05.42 | |
| HRX-434/435 | HRX-435_4.52.22 _230206120433 | | | |
| HRX-1632 HRX-835 | HRX-1632_4.52.22_2302101 01358 | 2023/02/28 | 4.52.22 | - HDD performance improved |
| 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 | <ul style="list-style-type: none"> - 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 | | | <ul style="list-style-type: none"> - Fixed an issue where an IP assignment error occurs from time to time when using the DHCP client mode. |
| LRN-410S/810S | LRN-810S_3.06.22 _220318111208 | | | <ul style="list-style-type: none"> - Fixed an issue where recording device is being booted when some cameras are connected via ONVIF. |
| QRN-1620S | QRN-1620S_3.06.22 _220318102444 | | | <ul style="list-style-type: none"> - Fixed an issue where a video cannot be received when some cameras are connected via ONVIF. |
| 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"> - 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 | <ul style="list-style-type: none"> - 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 |

Latest F/W Information

Network Camera

Technical Newsletter May 2023

| 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 a problem that the NTP server time was not reset to match the changed NTP server when the NTP server address setting was changed |
| QND/O/V-6012R1/6022R1/6072R1/6082R 1 | 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 | - Added auto tracking function |
| QNP-6250(H) QNP-6320H | QNP-6320H_2.21.02 _20220809_R199 | 2022/09/05 | 2.21.02 | - Added auto tracking function |

Latest F/W Information

Network Camera

Technical Newsletter May 2023

| 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 | |
| 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 | - 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 |
| 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 | - Fixed to move the location of the overlay image using the cursor - Adjusted the RTP Payload buffer to improve compatibility with specific NVRs |
| 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 | - 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. |
| XND-C8083RV/C9083RV XNV/O-C8083R/C9083R | XND-C9083RV_2.22.00_20230228_R382 | 2023/03/15 | 2.22.00 | - Added support for the ONVIF profile M function. - Added support for the MQTT protocol. |
| XNF-9010RV/RS/RVM | XNF-9010RV_2.22.00_20230228_R407 | 2023/03/15 | 2.22.00 | - Added support for the CDP protocol used in CISCO switches. - Added support for Japanese in OSD. - If you select the edge record profile, you can select GOV length, dynamic GOV and entropy coding. - When setting the H.264/H.265 codec, you can set 10 kbps as the minimum bitrate. - Added an item to control camera functions by users since the user authority is enhanced. |
| XNB-8002/9002 XND-8082RV/9082RV XNO/V-8082R/9082R | XNV-9082R_2.22.00_20230216_R418 | 2023/03/15 | 2.22.00 | |
| XNF-8010R(RV/RW/RVM) | XNF-8010R_2.10.03_20221227_R634 | 2023/01/16 | 2.10.03 | - Added certificate management & Exclusive PTZ control function - Added a function to add virtual channels to show the dewarped video of the fisheye camera |
| XNP-6400(R)/ 8250R/9250R | XNP-9250R_2.01.07_20230323_R329 | 2023/04/18 | 2.01.07 | - Improved functionality to obtain TTA security certification - Fixed language error in Japanese version - 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 |
| XNZ-L6320A | XNZ-L6320A_2.11.01_20220719_R85 | 2022/08/04 | 2.11.01 | - Fixed timestamp errors |

Latest F/W Information

Encoder / Decoder

Technical Newsletter May 2023

| 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