



Hanwha Vision

APR 2023



Technical Newsletter

APR Contents

Technical Information

- Network Board Manager v3.3 update
- SSD replacement for X86 NVR repair

Latest F/W Information

Network Board Manager v3.3 update

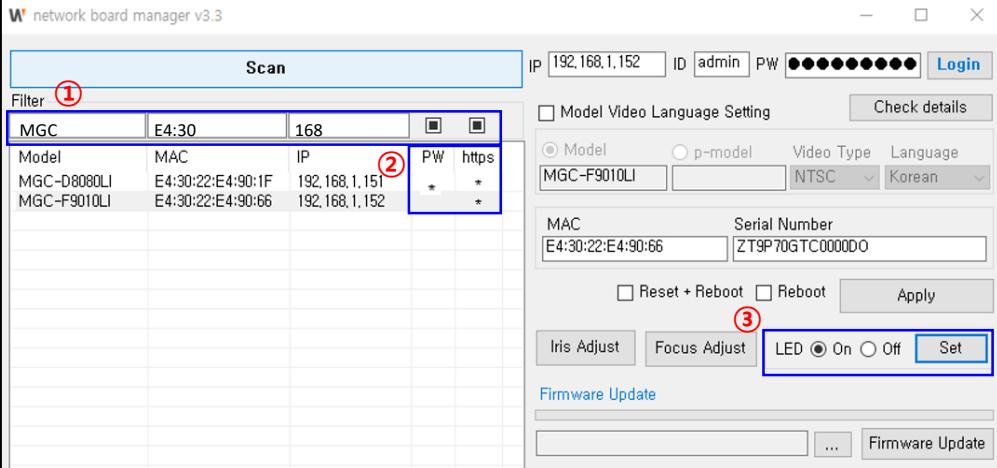
Info. Type Quality Settings Repair S/W Etc

1. Model : Software(Windows OS) for Network Camera repair

2. Purpose : To insert or change necessary camera information such as Mac. Add, Serial Number, Model Name and etc. after replacing camera's network board.

3. Version and release date : Ver. 3.2 → Ver.3.3, Apr. 3rd, 2023

4. Detail

| Category | Detail |
|----------|---|
| Feature |  <p>- New Feature</p> <p>① Filtering</p> <ul style="list-style-type: none"> . Model, MAC, IP, PW (Initial password Y/N), https (HTTPS supportive camera) <p>② When scanning, displays camera that has no initial password setup</p> <ul style="list-style-type: none"> . Displays " * " for PW : If the camera has no initial PW setup, camera PW setup is required on camera web page <p>③ Added LED Lamp on/off for Smart Parking Camera</p> <ul style="list-style-type: none"> . Camera lamp performance check up by LED On→Set / Off→Set after camera login <p>- Improved feature</p> <ul style="list-style-type: none"> . On scanned camera, mouse left double click->HTTP, mouse right double click->HTTPS . Double click on scanned camera to go to webpage(use CHROME/ Edge) |

※ According to the security protocol TLS 1.2 updates, use .Net Framework 4.7.2 version or above(Refer to newsletter 2022 Jun.)

※ Network Board Manager v3.3 is downloadable at the new portal "<https://login.salesforce.com>"

SSD replacement for X86 NVR repair

Info. Type Quality Settings Repair S/W Etc

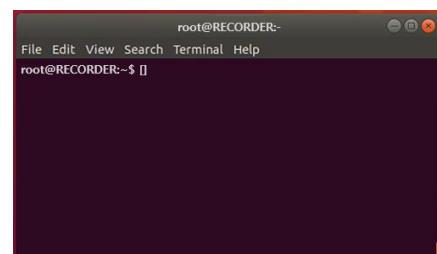
1. Model

| Service parts | Model | HIT S/W | S/N Tool |
|--------------------------|--|---------|--------------------------|
| AM10-002998A | PRN-6410DB4, PRN-6410B4, PRN-6400DB4, PRN-6400B4, PRN-6405DB4, PRN-6405B4, PRN-3210B4, PRN-3200B4, PRN-3205B4, XRN-6410DB4, XRN-6410B4, XRN-3210B4 | B4 | |
| A/S PART-PRN-6400DB4_SSD | PRN-3210B2, PRN-3200B2, PRN-3205B2, PRN-1610B2, PRN-1600B2, PRN-1605B2, PRN-6410B2 XRN-6410RB2, XRN-6410B2, XRN-3210RB2, XRN-3210B2 | B2 | CSTOOL |
| AM10-002997A | XRP-4310DB4, XRP-4210B4 | B4 | |
| AM10-002995A | XRP-4110B2, XRP-4010B2 | B2 | Windows-nvr-setting Tool |
| AM10-002996A | MGS-P4110B2 | | |



2. SSD replacement process

- (1) SSD part replacement for the models written above
- (2) HIT USB preparation : Autoupgrade_pba.zip – decompress the file in USB Root Folder
 - . B2 Model : Autoupgrade_pba_B2.zip
 - . B4 Model : Autoupgrade_pba_B4.zip
- (3) Insert USB to the port on the device front, and power on NVR
- (4) Beep sound alarms(Beep- beep- beep- beep-)
- (5) Remove USB after NVR power off
- (6) Insert NVR information(Serial number, MAC) via CSTool



[Process (4) completed] – able to power off NVR

3. Notice

- NVR will not boot if HIT(4cust Library : LI-202303160001) is not inserted
- All necessary information(Serial Number, MAC) of NVR must be inserted after replacing SSD
- . AM10-002998A : CSTOOL (4cust Library : refer to "LI-202210110003")
- . AM10-002995A~7A : XRP_windows-nvr-setting Tool (4cust Library refer to "LI-202210170001")

Latest F/W Information

DVR

| 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_5.09.22_2211081 92157 | 2022/11/14 | 5.09.22 | - Fixed Alarm In/Out error |

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_5.06.22 _220929180714 | 2022/10/07 | 5.06.22 | <ul style="list-style-type: none"> - Fixed an issue where audio was not output intermittently depending on IC or PCB or ambient temperature - Fixed intermittent disconnection when connecting the device to the viewers through P2P |
| LRN-1610S | LRN-1610S_3.06.22 _220318102605 | 2022-04-04 | 3.06.22 | <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. - Fixed an issue where recording device is being booted when some cameras are connected via ONVIF. |
| LRN-410S/810S | LRN-810S_3.06.22 _220318111208 | | | <ul style="list-style-type: none"> - Fixed an issue where a video cannot be received when some cameras are connected via ONVIF. |
| QRN-1620S | QRN-1620S_3.06.22 _220318102444 | | 3.07.22 | |
| QRN-420S/820S | QRN-820S_3.07.22 _220318111808 | | | |
| 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

| Model | Filename | Date | Version | Release Note |
|--|--------------------------------------|------------|---------|---|
| LND/OV-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-7002VD | PNM-7002VD_1.33.01_20220419_R51 | 2022/04/22 | 1.33.01 | - Improved manufacturing and process efficiency |
| 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/OV-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/OV-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/OV-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 ONVIF discovery communication was not available between a camera and Wisenet Device Manager in a certain circumstance - Removed unnecessary PHP scripts |
| QND/OV-6012R1/6022R1/6072R1/6082R1 | QNO-6082R1_1.41.01_20211012_R19 | 2021/10/22 | 1.41.01 | - Bug fixes and functional improvements |
| QND/OV-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 |

Latest F/W Information

Network Camera

| 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-6010 XNV-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 | |
| 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 | - 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 |
| XND-8080R(RV) XNV-8080R(RSA) | XND-8080R_2.10.02_20220401_R615 | 2022/04/20 | 2.10.02 | - Added the option to use the Internet Control Message Protocol (ICMP) timestamp request message |
| 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 |
| XNP-6120H | XNP-6120H_2.10.02_20220324_R696 | 2022/03/24 | 2.10.02 | - Adjusted the RTP Payload buffer to improve compatibility with specific NVRs |
| XNP-6320(H/HS) XNP-6321H QNP-6230(H) | XNP-6320_2.10.02_20220324_R614 | 2022/04/20 | 2.10.02 | - Improved Web UI for selecting TLS protocol version to use for encrypted communication |
| XNV-6011(W) | XNV-6011_2.10.02_20220117_R573 | 2022/01/17 | 2.10.02 | |
| XND-L6080V/L6080R XNV-L6080 XNO/O-L6080R | XNV-L6080R_2.10.02_20220401_R578 | 2022/04/01 | 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. - Added support for the ONVIF profile M function. - Added support for the MQTT protocol. - Added support for the CDP protocol used in CISCO switches. - Added support for Japanese in OSD. |
| XND-C8083RV/C9083RV XNV/O-C8083R/C9083R | XND-C9083RV_2.22.00_20230228_R382 | 2023/03/15 | 2.22.00 | - If you select the edge record profile, you can select GOV length, dynamic GOV and entropy coding. |
| XNF-9010RV | XNF-9010RV_2.22.00_20230228_R407 | 2023/03/15 | 2.22.00 | - 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) | 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_2.01.06_20221020_R324 | 2022/10/20 | 2.01.06 | - Renewed UL CAP - Improved PTZ response when controlling PTZ with ONVIF |
| XNZ-L6320A | XNZ-L6320A_2.11.01_20220719_R85 | 2022/08/04 | 2.11.01 | - Fixed timestamp errors |

Latest F/W Information

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_5.10.21 _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 11.12

Release date : 2023.03.24

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

1. ST8000VX010(ST8000VX009 OEM Model) added
2. HRD-443 : ST4000VX015 added