

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

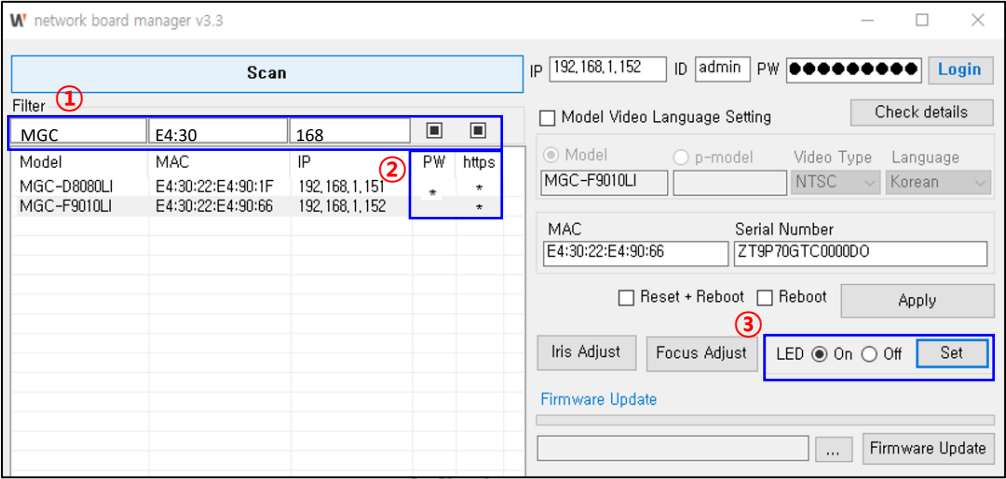
☐ Quality ☐ Settings ☒ Repair ☐ S/W ☐ Etc

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> <ul style="list-style-type: none"> ① Filtering <ul style="list-style-type: none"> . Model, MAC, IP, PW (Initial password Y/N), https (HTTPS supportive camera) ② When scanning, displays camera that has no initial password setup <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 ③ Added LED Lamp on/off for Smart Parking Camera <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

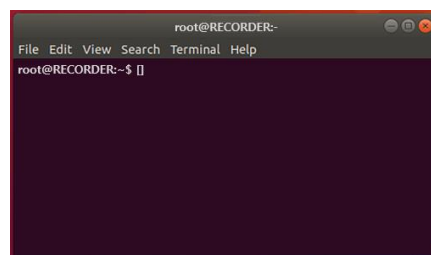
☐ Quality ☐ Settings ☒ Repair ☐ S/W ☐ Etc

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	CSTOOL
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	
AM10-002997A	XRP-4310DB4, XRP-4210B4	B4	Windows-nvr-setting Tool
AM10-002995A	XRP-4110B2, XRP-4010B2	B2	
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	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_5.09.22_221108192157	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	- 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	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	- 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			- Fixed an issue where recording device is being booted when some cameras are connected via ONVIF.
QRN-1620S	QRN-1620S_3.06.22_220318102444		3.07.22	- 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			
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

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-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/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
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 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

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	<ul style="list-style-type: none"> - 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
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-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-L6080V/L6080R XNV-L6080 XNV/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	<ul style="list-style-type: none"> - 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. - 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.
XND-C8083RV/C9083RV XNV/O-C8083R/C9083R	XND-C9083RV_2.22.00_20230228_R382	2023/03/15	2.22.00	
XNF-9010RV	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"> - Added certificate management & Exclusive PTZ control function - Added a function to add virtual channels to show the dewarped video of the fisheye camera
XNF-8010R(RV)	XNF-8010R_2.10.03_20221227_R634	2023/01/16	2.10.03	
XNP-6400(R)/8250R/9250R	XNP-9250R_2.01.06_20221020_R324	2022/10/20	2.01.06	<ul style="list-style-type: none"> - 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 - Provides the notification message "Live video cannot be played" on maximum streaming
SPE-1610	SPE1610_1.31 _200310_1706	2020/03/25	1.31	
SPE-1620	2.11.02_20220426	2022/04/26	2.11.02	
SPE-1630	SPE-1630_2.21.01 _20230309_R149	2023/03/24	2.21.01	- Improved Genetec compatibility - 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