

JAN 2023



Technical Newsletter

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Technical Information

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Latest F/W Information

Smart Security Manager Ver. 2.12.00

Info. Type

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

☐ SSM v2.12.00 Update

1. Models : SSM Server, SSM PC Console Client, SSM Virtual Matrix [v2.11.xx → **v2.12.00**]
2. Updates (Find release note for details)

구 분		내 용
Function & Spec	New	- Log download event added on log event report - Notification when WiseAI setup value is changed (VA/IV rule real-time update) - Bestshot rotation / Wisenet detector bestshot . Bestshot rotation : In the best shot of the Fisheye image, if a person or thing is displayed horizontally, it is modified to rotate and display it vertical direction . Wisenet Detector Bestshot : Added the ability to display bestshot images for user-defined objects defined by the Wisenet Detector - Hive Road AI solution integration (Event) - Wise Audio Management System integration . Support basic level only, device registration/event action will be supported in the future - [ANPR] Support open button for unregistered vehicle (Green), option mode
	Improvement	- Window 11 compatibility verification and manual update - PRP-50000,PRO-7510/7310 OS update compatibility - ANPR license registration function removal(For 3rd party ANPR camera)
	Change	- Request for P/W in order to perform NVR setting backup/restore - Record only I Frame when rebuilding
Error correction		- Typo error(Japanese) - PTZ control moves along with monitoring Tab-Tree node moving - Open source license issue: removed library that may violate policy (JPEG View Library, Java Service Wrapper) - Video – Meta data sync issue
Compatible new device		- Cameras with HiveRoadAI application: TNO-6081RLP, TNO-6070RHLP

☐ Download available on website <https://www.hanwha-security.com>

How to play video recorded on encrypted SD card

Info. Type

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

1. Model

- All cameras that support SD card encryption

2. Purpose

- To play video recorded on encrypted SD card via a commercial player

3. Description

- Enables video recording on encrypted SD card
- Video image can be kept securely even if SD card is lost
- Find Online Help for each camera's SD card encryption and decryption details

4. How to play

- Decrypt SD card through a particular SW¹⁾
- Insert the same encryption password created on camera web viewer to play the video
- The password MUST be converted to MD5 hash²⁾ value before inserting
- Insert the MD5 converted value to decrypt and to play a video on a commercial player

5. MD5 decrypted value

- Search "MD5 Hash" on internet browser, free converting tools are provided for use

The screenshot shows a Google search for "md5 hash generator". The search results include links to "MD5 Hash Generator" and "md5 Hash Generator - Miracle Salad". A diagram on the right illustrates the MD5 encryption process:

- A red arrow points from the text "1234" to the text "Encryption password created on camera web viewer".
- A red arrow points from the text "MD5 Hash : Converted value for decryption" to the MD5 hash value "81dc9bdb52d04dc20036dbd8313ed055".

The diagram also includes the text "<Example> MD5 ENCRYPTION" and a box containing the MD5 hash value: "MD5 HASH: 81dc9bdb52d04dc20036dbd8313ed055".

※ 1) SW : Free SW tools provided online

2) MD5 Hash : A widely used hash function producing a 128-bit hash value

x86&Novatek chipset NVR main board replacement

Info. Type



Quality



Settings



Repair



S/W



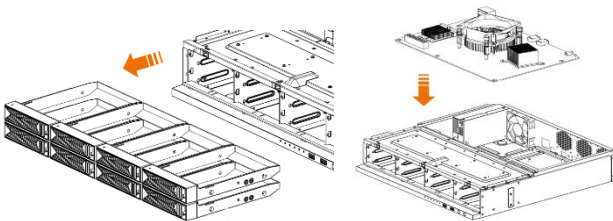
Etc

1. Applicable models : x86 & Novatek chipset NVR

Chipset	Model
X86 NVR	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
Novatek NVR	HRX-1635, HRX-1634, HRX-435, QRN-430S, XRN-420S, ARN-1610S, ARN-410S, ARN-810S, HRX-435FN, HRX-435L, HRX-835, HRX-835A, QRN-1630S, QRN-830S, XRN-425S-4T, XRN-815S

2. Purpose : Guide to replace NVR mainboard

3. Application : Detach all existing HDDs before replacing to new mainboard



Serial Number
ZPFQ0AQWESESWFH

UID
UIYUEYTXBZVXEQLOIUK

Mac
- Please Enter MAC ADDRESS !
- Warning: MAC change trial count is limited.
00091BE1A165

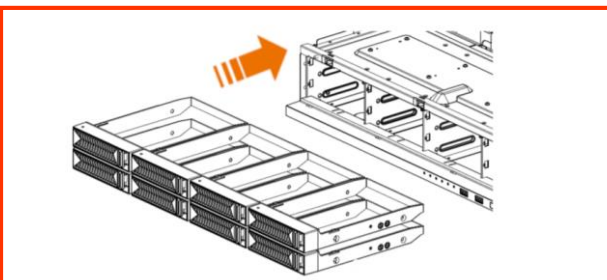
Apply View Close

Detach existing HDD

New board replacement
& booting

Installation wizard :
IP&PW setting

CS Tool :
Insert MAC, S/N info.



After rebooting :
Power-off/ HDD attach

Information synchronized
& repair completion

※ F/W will be updated by phase to enable the mainboard replacement repair without HDD detachment action

[Notice] Errors including FTP fail, e-mail sending fail and cemrea registration fail may occur if HDD is not detached prior to repair

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_4.09.00_210531170436	2021/06/21	4.09.00	- Bug fixes and functional improvements
HRX-1632 HRX-835	HRX-1632_4.09.00_210513232654			
HRX-1634 HRX-1635	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-3210B2(RB2) XRN-6410B2(RB2)	PRN-6400DB4_5.20.22_221107201432	2022-11-22	5.20.22	- Fixed the problem that the alarm input and alarm output set in the event rule malfunctioned
PRN-1600B2 PRN-3200B2(B4) PRN-6400B4(DB4)	PRN-6400DB4_5.20.22_221107201432	2022-11-14		
XRN-820S XRN-1620B2(SB1) XRN-3210B4 XRN-6410B4(DB4)				- Fixed the problem that the device restarted when the [Distributed mode] was selected in the installation wizard
QRN-430S XRN-420S	XRN-420S_5.01.22_221108180009	2022-11-14	5.01.22	- Fixed the problem that the alarm input and alarm output set in the event rule malfunctioned
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. - 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-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/O/V-6012R/6022R/6072R	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-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_2.11.03_20220418_R521	2022/04/22	2.11.03	- Added the UI to adjust the video image position of each sensor in order to correct the alignment of the video images
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 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-7010R QND/O/V-7020R	QND7010R_Series_4.01_210706	2021/08/06	4.01	- Updated the unique certificate (expiration date: 2051-04-08)
QND/O/V-7080R	QND7080R_Series_4.01_210706			
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 QND/O/V-6012R/6022R/6032R/6072R/6082R	QNO-6082R_1.41.12_20211026_R286	2021/11/15	1.41.12	- Fixed Timestamp error - Improved RTP block size issue - Added User authentication - Improved OpenApp installation issue
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/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
QND/O/V-8010R/8020R/8080R QND-8011/QNE-8011R QND-8021	QNO-8080R_1.41.04_20210823_R277	2021/09/15	1.41.04	- Logs are provided when changing presets in [Camera setup] - Improved compatibility with NVR
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-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	
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
XND-6010 XNV-6010	XND-6010_2.10.02_20220401_R609	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
XND-6020R XNV-6020R	XND-6020R_2.10.02_20220401_R596	2022/04/20	2.10.02	
XNV-6080(R) XND-6080 (R/V/RV)	XND-6080_2.10.02_20220117_R567	2022/02/07	2.10.02	
XND-6081V(RV) XNV-6081R	XND-6081RV_2.10.02_20220329_R469	2022/04/20	2.10.02	
XND-8020R XNV-8020R	XND-8020R_2.10.02_20220401_R599	2022/04/20	2.10.02	
XND-8080R(RV) XNV-8080R	XND-8080R_2.10.02_20220401_R615	2022/04/20	2.10.02	
XNO/V-6120(R)	XNO-6120R_2.10.02_20220117_R551	2022/02/07	2.10.02	
XNP-6120H	XNP-6120H_2.10.02_20220324_R696	2022/04/20	2.10.02	
XNP-6320H XNP-6321H QNP-6230(H)	XNP-6320_2.10.02_20220324_R614	2022/04/20	2.10.02	
XNV-6011	XNV-6011_2.10.02_20220117_R573	2022/02/07	2.10.02	
XND-L6080(V,R) XNO-L6080R XNV-L6080(R)	XNV-L6080R_2.10.02_20220401_R578	2022/04/20	2.10.02	
XND/O/V-8082R XND/O/V-9082R (RV)	XNV-9082R_2.10.03_20220421_R334	2022-07-27	2.10.03	- Improved Timestamp error
XND/V-C6083RV XNV-C7083R	XND-C7083RV_2.11.02_20220705_R250	2022/07/27	2.11.02	- Add the Detection Shot feature - Fixed an error when setting up WDR
XND/V-C8083RV XNV-C9083R	XND-C9083RV_2.11.02_20220705_R269	2022/07/27	2.11.02	
XNF-8010R(RV)	XNF-8010R_2.10.02_20220117_R624	2022/02/07	2.10.02	- Added a function to add virtual channels to show the dewarped video of the fisheye camera
XNF-9010RV	XNF-9010RV_2.10.03_20220421_R319	2022/07/27	2.10.03	- Fixed the problem that [Day/Night] mode did not work in some cameras depending on the camera settings after upgrading the firmware
XNP-6400(R) XNP-9250R	XNP-9250R_2.01.04_20220112_R301	2022/02/07	2.01.04	- Added a function to change the order where each privacy mask area is saved

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_5.10.12_221107171453	2022-11-22	5.10.12	- New FW
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-410	spe410_1.31_200310_1655	2020/03/25	1.31	
SPE-1610	SPE1610_1.31_200310_1706	2020/03/25	1.31	
SPE-420	SPE-420_2.11.03_20220426_R142	2022/05/18	2.11.03	- New FW
SPE-1620	SPE-1620_2.11.02_20220426_R175	2022/05/18	2.11.02	- Fixed the problem that the external PTZ setting item disappears from the web viewer when the external PTZ connection port is changed to COAX for all channels

Software

Model	Filename	Date	Version
Wisenet SSM	2.11.00	2022/09/02	- Bug fixes and functional improvements
Wisenet Viewer	1.02.01	2022/10/21	- 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 11.7

Date : 2022.09.07

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

☐ Remark

1. Addition

- XRN-811S : WD42PURZ-74B4YY0, WD63PURZ-74B4VY0
- QRN-1620S : ST2000VX017, ST3000VX015, ST4000vx016, ST6000VX009

2. Correction

- ST8000VX009 : Not support XRN-811S, QRN-1620S, ARN-1610S
- WD101PURA-64B5KY0 : Not support ARN-1610S
- WUS72101AKE6L4 : Support PRN-4011, XRN-6410B2