

Nov. 2023



Technical Newsletter

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Technical Information

- PTRZ feature of multi-channel cameras
- Q Core Series FW updates_AI feature added
- N/W camera rubber bushing accessory

Latest F/W Information

PTRZ feature of multi-channel cameras

Info. Type

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

☐ Purpose for PTRZ feature

- Support for remote control of each channel during device installation
- . Remote control : Pan, Tilt, Rotate, Zoom



☐ PTRZ Setup

- Webpage – Setup – PTZ – PTRZ setup
- ① Select channel for adjustment
- ② Lens Status : Lens position display
- ③ PTRZ setup : Pan, Tilt, Rotate, Zoom adjustment
- ④ Pan & Tilt, Zoom & Focus manual setup
- ⑤ Set preset : Save PTRZ setup as a preset



[Remote PTRZ setup provides user convenience]

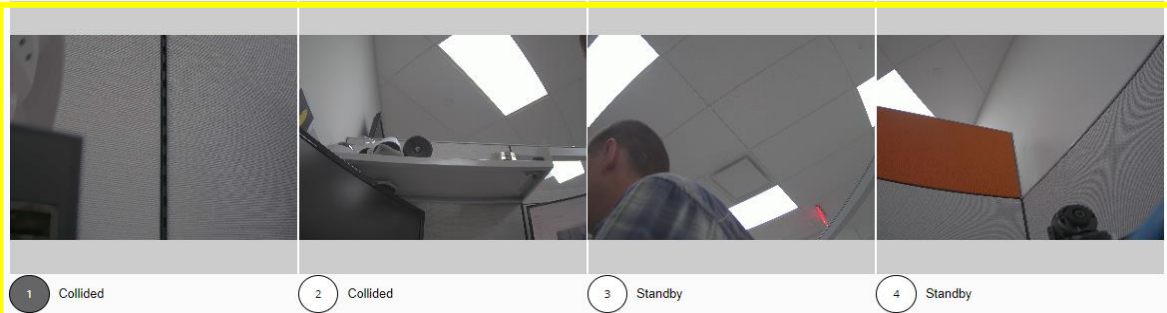
PTRZ setup

Select channel

CH 1 2 3 4 Multi

Initialize PTRZ

①



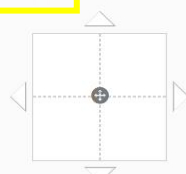
② Lens status



360

User preset

③ PTRZ setup



④ Pan & Tilt

< -30 -20 -10 10 20 30 >

~ -30 -20 -10 10 20 30 ^

Zoom & Focus Initialize focus

~ -100 -10 -1 1 10 100 ^

● -100 -10 -1 1 10 100 ●

Simple Focus

☐ Note

- This PTRZ is limited to 200 PTRZ tasks as a feature to support installation
- Regular use of the PTRZ for monitoring purposes may cause failure

Q Core Series FW updates_AI feature added

Info. Type ☐ Quality ☐ Settings ☐ Repair ☒ S/W ☐ Etc

1. Purpose

- Introducing Q Core Series AI feature added FW release

2. Models and FW version

Resolution	Model	AS IS	Updated FW version
4K	QNV-C9083R, QNO-C9083R	2.21.01_20230511_R281	2.21.10_20230908_R390
	QNV-C9011R	2.21.00_20230510_R95	2.21.10_20230908_R182
5M	QNV-C8083R, QNO-C8083R	2.21.01_20230511_R225	2.21.10_20230908_R311
	QNV-C8011R	2.21.00_20230510_R93	2.21.10_20230908_R167
	QNV-C8012	2.21.00_20230510_R30	2.21.10_20230908_R122

3. Features

Category		Contents
IVA feature	People counting	Count number of in/out people based on virtual line
	Heatmap	Provides information on popular/unattractive products
	Queue management	Manages the queues in an efficient way, reducing customer complaints
	Vehicle counting	Count number of in/out vehicle based on virtual line
WiseStream III		AI-based image compression technology
Improvement	D/N Duration	Added manual mode for Day/Night Switching Sensitivity (1-100)
	Audio NR	Audio NR on/off and sensitivity level option: low, mid, high
	TLS v1.3 update	TLS v1.0, v1.1, v1.2, v1.3 available per Cipher mode
User convenience	Image Overlay	Added overlay feature within max. 300pixel image

N/W camera rubber bushing accessory

Info. Type

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

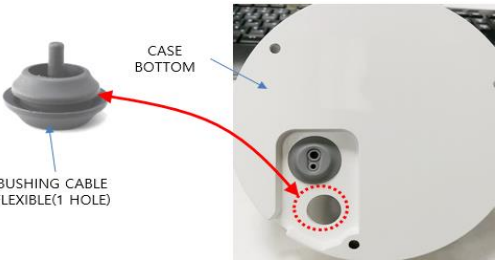
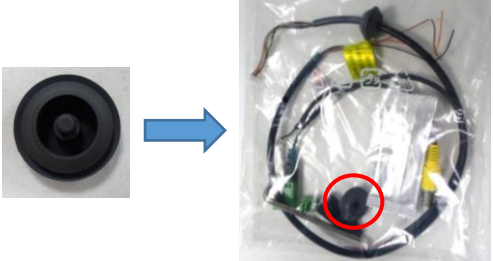



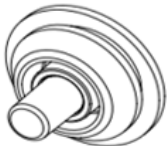
1. Purpose

- N/W Vandal camera rubber bushing accessory usage guide

2. Models

- N/W Vandal cameras

3. Rubber bushing usage guide

Bushing	Embedded at bottom case	Supplied as an accessory
Image		
Bushing size	 	 
Bushing size	Use for diameter 5-6.5mm cable (Usual cable size)	Use for diameter 7-8.5mm cable (Shield enhanced cable)
Part number	MC06-001039A (BUSH-CABLE_SET)	MC06-001040A (BUSH-CABLE_SET)

4. Note

- As diameter of cable can be vary, rubber bushings must be selected after checking the cable specifications used in the field

DVR

Model	Filename	Date	Version	Release Note
HRX-434/435	HRX-435_4.52.22_230206120433	2023/03/10	4.52.22	- Removed support for fan-related events and logs
HRX-1632 HRX-835	HRX-1632_4.52.22_230210101358	2023/02/28	4.52.22	- HDD performance improved
HRX-1634/1635 HRX-835A	HRX-1635_5.31.32_230525155530	2023/09/14	5.31.32	<ul style="list-style-type: none"> - Corrected an error where an analog camera intermittently displayed a channel number like a multi-directional camera (MDC) - Corrected an error where the video recording device mistakenly assumed that no video signal was received when the analog camera had a low signal - Corrected an error that caused the video recording device to reboot

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_5.30.62_230824204102	2023/09/01	5.30.62	- Fixed an issue where videos were not recorded on the sub-stream of some cameras out of the cameras (channels) registered at once after auto-searching cameras
ARN-410S/810S/1610S	ARN-1610S_5.31.42_230626174111	2023/06/26	5.31.42	- Removed support for fan-related events and logs
QRN-430S XRN-420S	XRN-420S_5.01.52_230626172530	2023/08/10	5.01.52	
QRN-830S QRN-1630S XRN-815S	QRN-1630S_5.06.52_230626173233	2023/08/10	5.06.52	
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. - Fixed an issue where a video cannot be received when some cameras are connected via ONVIF.
QRN-1620S	QRN-1620S_3.06.22_220318102444			
QRN-420S	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-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 - Fixed Web server responding issues - Fixed HDD No. to be logged in the event of HDD problems
XRN-3010A	xrn-3010-pkg_v2.46_210315134112	2021/06/14	2.46	
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

Modelg	Filename	Date	Version	Release Note
LND/O/V-6012R/6022R/6072R	LNO-6072R_1.41.12_20230426_R149	2023/05/09	1.41.12	<ul style="list-style-type: none"> - 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 - Added option to grant user permission to access and set settings on [Video profile], [Camera setup], and [Video and focus setup] ([Video setup] for models that do not support focus function)pages
PNM-12082RVD	PNM-12082RVD_2.21.02_20231012_R145	2023/10/19	2.21.02	<ul style="list-style-type: none"> - Fixed an error related to device certificate
PNM-7082RVD	PNM-7082RVD_2.21.02_20231012_R115	2023/10/19	2.21.02	
PNM-9002VQ	PNM-9002VQ_2.22.00_20230418_R77	2023/05/01	2.22.00	<ul style="list-style-type: none"> - When setting the H.264/H.265 codec, you can set 10 kbps as the minimum bitrate - Displays the company name as Hanwha Vision in the web viewer - Added a function to configure the MTU (Maximum Transmission Unit) size between 1,280 and 1,500 in [Setup] > [Basic] > [IP & Port] > [IP address] - Fixed an issue where video streaming was interrupted for the live and recording in the camera registered to NVR or Genetec - Fixed an issue where firmware issued after 2022 did not upgrade properly - Fixed a problem where the certificate was not used normally when uploading a certificate with a '+' sign - 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
PNM-9084QZ(RQZ)/1 PNM-9085RQZ/1	PNM-9084QZ_2.22.00_20230418_R371	2023/05/01	2.22.00	
PNM-9322VQP	PNM-9322VQP_2.22.01_20230720_R154	2023/08/10	2.22.01	<ul style="list-style-type: none"> - Addressed the vulnerability of DoS of WS Discovery and Hanwha proprietary discovery services where the discovery function may be disabled after EMPTY packets are injected into the 3702 / 7701 ports used for device discovery of ONVIF/Device Manager. (Issued CVE-2023-31994)
PNM-9022V	PNM-9022V_2.01.02_20230404_R149	2023/05/11	2.01.02	<ul style="list-style-type: none"> - When setting the H.264/H.265 codec, you can set 10 kbps as the minimum bitrate
PNM-9031RV	PNM-9031RV_2.22.00_20230418_R534	2023/04/26	2.22.00	<ul style="list-style-type: none"> - Improved functionality to obtain TTA security certification - 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
PND-A6081RV/RF PNO/V-A6081R	PNO-A6081R_2.21.06_20230414_R373	2023/10/10	2.21.06	<ul style="list-style-type: none"> - The existing AI functions are now supported in the WiseAI application. - 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. - Increased the installation space of the WiseAI application to 150MB. to update the firmware, you need a bridge firmware. Once updated, the firmware cannot be downgraded. - Added a [Wise detector] function to the WiseAI application, where it displays a bestshot out of the objects detected by Wise Detector. - Added support for the MQTT protocol - Support Encoding From Memory(EFM) - An alarm now goes off in case of changed in WiseAI - You can type Japanese in OSD - Added support for LLDP for POE+ - Added a [Slip & fall detection] function to the WiseAI application
PND-A9081RV /RF PNO/V-A9081R	PNO-A9081R_2.21.13_20230414_R782	2023/10/10	2.21.06	
QNF-9010	QNF-9010_2.11.02_20220412_R437_1	2023/06/20	2.11.02	<ul style="list-style-type: none"> - Added an option to choose a TLS version - Enhanced security feature
QND/O/V-6012R1/6022R1/ 6072R1/6082R1	QNO-6082R1_1.41.05_20230426_R32	2023/05/09	1.41.05	<ul style="list-style-type: none"> - 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 - Added option to grant user permission to access and set settings on [Video profile], [Camera setup], and [Video and focus setup] ([Video setup] for models that do not support focus function) Pages - 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

Network Camera

Model	Filename	Date	Version	Release Note
QNP-6250(H) QNP-6320(H)	QNP-6320H_2.21.02 _20220809_R199	2022/09/05	2.21.02	- Added auto tracking function - When you set the privacy zone, the privacy zone now becomes transparent while setting the zoom threshold
QND-6011/6021 QNO-6032R QND/O/V-6012R/6022R/ 6072R/6082R	QNO-6082R_1.41.15 _20230623_R379	2023/07/06	1.41.15	- Added options to configure GOV, dynamic GOV, and dynamic FPS settings of the recording. In case of configuration, however, the video may not be recorded properly. - Fixed an issue where the camera failed to reconnect to a NAS device after disconnecting from it.
QND/O/V-8010R/8020R/8080R QND-8011/8021 QNE-8011R/8021R	QNO-8080R_1.41.06 _20230623_R343	2023/07/06	1.41.06	It now tries to reconnect every 30 seconds for 10 minutes and every 10 minutes thereafter.
QND/O/V-7012R/7022R/7032R/ /7082R	QNO-7082R_1.41.07 _20230804_R150	2023/10/10	1.41.07	- Added the DLL auto-tune function to address the camera-rebooting issue caused by the fixed DLL value
XNB-6001	XNB-6001_2.10.04 _20230516_R574	2023/06/02	2.10.04	- When setting the H.264/H.265 codec, you can set 10 kbps as the minimum bitrate.
XNO-6080R/XNB-6000	XNB-6000_2.10.05 _20230516_R685	2023-06-02	2.10.05	
XNO-8080R/XNB-8000	XNB-8000_2.10.03 _20220822_R704	2022/09/15	2.10.03	
XNV-6080(R/RSA) XND-6080 (R/V/RV)	XND-6080_2.10.04 _20230516_R578	2023/06/02	2.10.04	
XND/V-6020R	XND-6020R_2.10.02 _20220401_R596	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
XNO-6085R/XNB-6005	XNB-6005_2.10.02 _20220329_R589	2022/04/20	2.10.02	
XND/O/V-L6080(V/R)	XNV-L6080R_2.10.02 _20220401_R578	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	
XNP-6040H	XNP-6040H_2.10.02 _20220324_R611	2022/03/24	2.10.02	
XNP-6120H	XNP-6120H_2.10.02 _20220324_R696	2022/03/24	2.10.02	
XNV-6011(W)	XNV-6011_2.10.02 _20220117_R573	2022/01/17	2.10.02	
XND/O/V-6083R(RV) XNB-6003	XND-6083RV_2.22.03 _20230711_R319	2023/07/21	2.22.03	- Fixed an issue where the web page was not opened after a virtual channel was added to it - Fixed an issue with non fixed index values - Fixed an issue where the IP Wisenet speaker was not connected to the camera - Fixed an issue where Wise stream did not work in the record profile
XND/O/V-8082/9082(R/RV/RF) XNB-8002/9002	XNV-9082R_2.22.02 _20230623_R464	2023/07/04	2.22.02	
XND/O/V-8083R(RV)/9083R(RV)	XND-9083RV_2.22.03 _20230711_R331	2023/07/21	2.22.03	
XND-C6083RV/C7083RV XNV/O-C6083R/C7083R	XND-C7083RV_2.22.02 _20230623_R400	2023/07/04	2.22.02	
XND-C8083RV/C9083RV XNV/O-C8083R/C9083R	XND-C9083RV_2.22.02 _20230623_R415	2023/07/04	2.22.02	
XNF-9010RV/RS/RVM	XNF-9010RV_2.22.02 _20230623_R441	2023/07/04	2.22.02	
XNF-8010R(RV/RW/RVM)	XNF-8010R_2.10.04 _20230328_R640	2023/05/11	2.10.04	- When setting the H.264/H.265 codec, you can set 10 kbps as the minimum bitrate.
XNP-6400(R)/ 8250(R)/9250(R)	XNP-9250R_2.22.00 _20230418_R330	2023/04/26	2.22.00	- Improved functionality to obtain TTA security certification - 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

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_5.10.32_230508130731	2023/05/10	5.10.32	- Deleted the function of synchronizing a decoder SPD-152 with a camera audio - Enable the sequence to operate in the latest layout configuration when the decode restarts after it reboots in operation of layout sequence functions - Increased the maximum number of layouts from 10 to 20 for layout configuration and operation of layout sequence
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-1620	SPE-1620_2.21.02_20230807_R198	2023/08/11	2.21.02	- Fixed an issue that caused the encoder to reboot when disconnected from the camera on the firmware v2.21.01
SPE-420	SPE-420_2.21.02_20230803_R152	2023/08/11	2.21.02	
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

Software

Model	Filename	Date	Version
Wisenet SSM	2.14.00	2023/09/13	- Bug fixes and functional improvements
Wisenet Viewer	1.04.00	2023/02/23	- Bug fixes and functional improvements
Smart Viewer	4.9.13	2022/05/18	- Bug fixes and functional improvements
Wisenet mobile	2.07.01	2023/10/04	- Bug fixes and functional improvements

HDD Compatibility List

Revision 11.22

Release date : 2023.10.12

hanwhavision.com > Support > Data Center > HDD Compatibility

□ Major change

Added Seagate AI & Enterprise models, and compatible SSD for TRM series

1. ST8000VE000 : XRN-2011A, PRN-4011, PRN-6410DB4
2. ST4000NM024B : PRN-6410DB4, XRN-6410RB2, XRN-6410B2
3. ST6000NM019B : XRN-6410RB2, XRN-6410B2
4. ST8000NM017B : PRN-6410DB4, XRN-6410RB2, XRN-6410B2
5. WDS400T1R0A-68A4W0 : TRM-810S, TRM-410S