

Technical Newsletter

May.2024 Service Operation Team

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Technical Information

- X/P AI series dongle support for installation convenience
- NEMA/IP enclosure ratings overview and comparison

Latest Firmware Information

X/P AI series dongle support for installation convenience

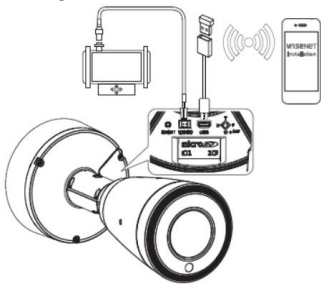
Info. Type

☐Quality ☒Settings ☐Repair ☐S/W ☐Etc

- **Model** : X series, P AI series network camera
- **Purpose**
 - Dongle support is an installation convenience feature, which that users can view live video through mobile application during installation in order to set target angle
 - It cannot be used for a monitoring purpose, it is only an installation solution

● **How to connect Wifi dongle**

- 1) Connect OTG adapter (5-pin) and Wi-Fi dongle to the micro USB terminal
- 2) Install the Wisenet Installation app, and select the camera SSID after turning on the WiFi
- 3) Log in to the camera, and check the video angle
- 4) Adjust angle of view while watching the video through smartphone



Supported model list_As of April 2024

Brand	Model name	X series	P AI series
NETIS	WF2123 n300	Yes	Yes
EDIMAX	EW-7811Un	Yes	Yes
	EW-7811Un V2(New ver.)	Yes	Yes
IP Time	N100mini	Yes	Yes
	N150L	Yes	Yes
	TL-WN823N V1	Yes	Yes
TPLINK	TL-WN725N	Yes	Yes
	Archer T2U Nano	Yes	Yes
ASUS	USB N13	Yes	Yes
	USB N10 NANO	Yes	Yes
NETGEAR	WNA3100M	Yes	Yes
IODATA	WN-G150UMW	Yes	Yes
	WN-S150UM	Yes	Yes
TOTOLINK	N300UM	Yes	Yes



For 4CH/5CH AI MDC cameras(PNM-C32083RVQ, PNM-C16083RVQ, PNM-C34404RQPZ), TPLINK TL-WN725N is supported from **FW v 23.01.04_20240417_R929**

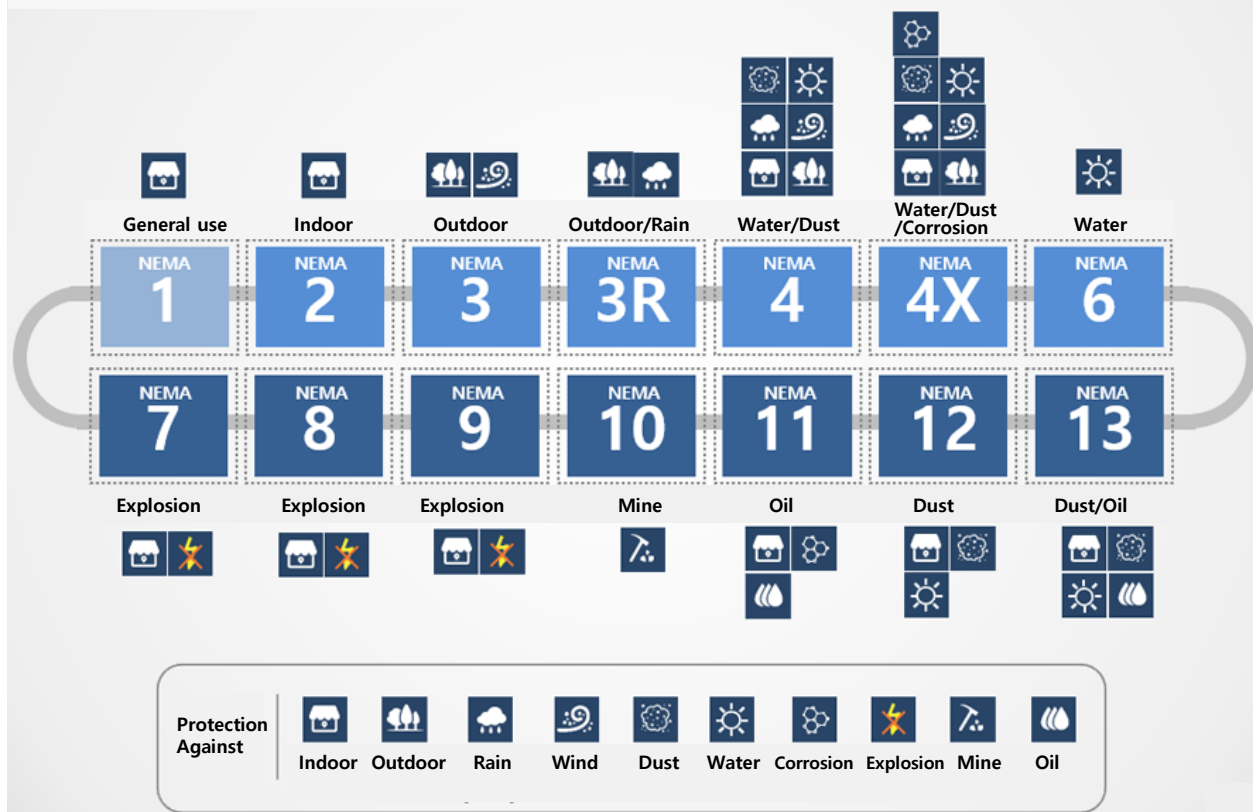
NEMA/IP enclosure ratings overview and comparison(1/2)

Info. Type

☐Quality ☐Settings ☐Repair ☐S/W ☒Etc

- **NEMA/IP ratings are standards for protecting equipment from water, dust, chemicals, etc.**
 - NEMA rating is not a global standards yet commonly used in North America region
 - IP rating is more likely used as an international standard

Key feature of NEMA protection rating



- **Both are protection ratings, but the measurements are different**
 - Since NEMA considers a wide range of environmental conditions, such as oil and ice, it is particularly suitable if an enclosure is required to describe various conditions including humidity and mechanical damage
 - The NEMA rating also measures corrosion or exposure to chemicals (Advantage of NEMA rating)
 - The IP rating mainly measures the degree of inflow of particles (such as dust) and liquids, thus it only needs to meet the appropriate protection regulations
- **Unlike IP rating, the higher NEMA rating does not necessarily mean more advanced device**
 - Because there are specific requirements for each rating, it is most important to meet the specific requirements

NEMA/IP enclosure ratings overview and comparison(2/2)

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

● NEMA enclosure rating

NEMA Rating	IP Equivalent	NEMA Definition
1	IP10	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection against falling dirt.
2	IP11	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment, to provide a degree of protection against falling dirt, and to provide a degree of protection against dripping and light splashing of liquids
3	IP54	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, and windblown dust; and that will be undamaged by external formation of ice on the enclosure
3R	IP54	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, and snow; and that will be undamaged by external formation of ice on the enclosure
3S	IP54	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, and windblown dust; and in which the external mechanism(s) remain operable when ice laden.
4	IP66	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water, and corrosion; and that will be undamaged by the external formation of ice on the enclosure
4X	IP66	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water, and corrosion; and that will be undamaged by the external formation of ice on the enclosure
5	IP52	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against settling airborne dust, lint, fibers, and flyings; and to provide a degree of protection against dripping and light splashing of liquids.
6	IP67	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against hose-directed water and the entry of water during occasional temporary submersion at a limited depth; and that will be undamaged by the external formation of ice on the enclosure.
6P	IP67	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to the personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against hose-directed water and the entry of water during prolonged submersion at a limited depth; and that will be undamaged by the external formation of ice on the enclosure
12 and 12K	IP52	Enclosures constructed (without knockouts) for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, fibers, and flying; and against dripping and light splashing of liquids
13	IP65	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, fibers, and flyings; and against the spraying, splashing, and seepage of water, oil, and non corrosive coolants.



NEMA1~6, 11~13 are used for general safety area(non-explosionproof)
NEMA7~10 are use for hazardous area(explosionproof)

DVR

Model	File	Date	Ver.	Remark
ARD-410 ARD-810	ARD-810_5.31.32 _230525160458	2023/05/25	5.31.32	- Addressed an issue where DDNS ID was occasionally not issued
ARD-1610	ARD-1610_5.31.32 _230525165929	2023/05/25	5.31.32	
HRX-434/435	HRX-435_4.52.62 _240214195734	2024/02/22	4.52.62	- Security improved
HRX-835/1632	HRX-1632_4.52.52 _240112120109	2024/01/23	4.52.52	- Increased the compatibility with some 4MP cameras (only applicable to HRX-835 models)
HRX-1634/1635	HRX-1635_5.31.42 _231023102331	2023/11/02	5.31.42	- Corrected an error where an analog camera intermittently displayed a channel number like a multi-directional camera (MDC)

NVR

Model	File	Date	Ver.	Remark
ARN-410S ARN-810S ARN-1610S	ARN-1610S_5.08.22 _230206121706	2023/02/06	5.08.22	- HDD performance improved
PRN-1600B2 PRN-3200B2/B4 PRN-6400B4/DB4	PRN-6400DB4_5.30.72 _231107202437	2023/11/14	5.30.72	- Corrected an issue that caused the [Dynamic layout] feature to malfunction - Fixed mouse-click errors in some pop-up windows - Corrected an issue that prevented you from inserting spaces in the [NVR name] entry box in the Web viewer
XRN-820S XRN-1620B2/SB1 XRN-3210 (B2,B4,RB2) XRN-6410 (B2,B4,DB4,RB2)				- Corrected the howling issue that intermittently happened when you played videos using an AAC codec on Wisenet mobile - Changed the domain name from hanwha-security to hanwhavision to reflect the new company name - Improved the backup speed of remote clients (SSM, NVR, Web viewer, SMV, etc.)
QRN-830S QRN-1630S XRN-815S	QRN-1630S_5.06.52 _230626173233	2023/08/10	5.06.52	- Removed support for fan-related events and logs
QRN-430S XRN-420S	XRN-420S_5.01.62 _231128194047	2023/12/11	5.01.62	- Security improved
XRN-3220B4 XRN-6420B4 XRN-6420DB4	XRN-6420DB4_5.32.12 _231116112359	2024/01/09	5.32.12	- Security improved

Network Camera

Model	File	Date	Ver.	Remark
ANV-L6012R ANO-L6012R	ANO-L6012R_1.41.03 _20230322_R30	2023/03/22	1.41.03	<ul style="list-style-type: none">- 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
ANV-L6082R	ANO-L6082R_1.41.03 _20230322_R82	2023/03/22	1.41.03	
ANV-L7012R ANO-L7012R	ANO-L7012R_1.41.03 _20230322_R116	2023/03/22	1.41.03	
ANV-L7082R ANO-L7082R	ANO-L7082R_1.41.03 _20230322_R88	2023/03/22	1.41.03	
LND/V-6012R LND-6022R LNV-6072R	LNO-6072R_1.41.13 _20231109_R165	2023/11/28	1.41.13	<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
PNM-12082RVD	PNM-12082RVD_2.22.02 _20240408_R171	2024/04/08	2.22.02	<ul style="list-style-type: none">- Corrected an issue where Chinese text didn't appear in the UI even after you chose the language as Chinese
PNM-7082RVD	PNM-7082RVD_2.22.02 _20240408_R141	2024/04/08	2.22.02	
PNM-8082VT	PNM-8082VT_2.22.00 _20231103_R219	2023/11/14	2.22.00	<ul style="list-style-type: none">- Corrected an issue where the [Time schedule] feature did not intermittently work after the camera rebooted
PNM-9022V	PNM-9022V_2.01.02 _20230404_R149	2023/11/14	2.01.02	<ul style="list-style-type: none">- Improved the issue of camera time failing to periodically sync with that of the NTP server
PNM-9031RV	PNM-9031RV_2.22.01 _20231101_R542	2023/11/28	2.22.01	<ul style="list-style-type: none">- Fixed language errors in Japanese version [v2.22.00, PNM]
PNM-9084RQZ1 PNM-9085RQZ1	PNM-9084QZ_2.22.02 _20231109_R380	2023/11/28	2.22.02	<ul style="list-style-type: none">- Fixed an issue where video streaming was interrupted for the live and recording in the camera registered to NVR or Genetec
PNM-C12083RVD	PNM-C12083RVD_2.21.03 _20231025_R352	2023/11/23	2.21.03	<ul style="list-style-type: none">- Added support for the Cisco Discovery Protocol (CDP) used in CISCO switches
PNM-C34404RQPZ	PNM-C34404RQPZ _23.01.04_20240417_R650	2024/04/17	23.01.04	<ul style="list-style-type: none">- Applied an updated web page
PNV-A9081R	PNO-A9081R_2.21.13 _20230414_R782	2023/10/10	2.21.13	<ul style="list-style-type: none">- Added a function where you can select attributes to send to object metadata
QNF-8010	QNF-8010_2.10.02 _20220401_R411	2022/04/01	2.10.02	<ul style="list-style-type: none">- Added certificate management function
QNF-9010	QNF-9010_2.11.03 _20230509_R444	2024/04/23	2.11.03	<ul style="list-style-type: none">- Addressed the vulnerability of Authenticated Command Injection where a Linux command may be executed after a command is randomly injected into the folder mount point of the NAS function (Issued CVE 2023 31996)
QND-6011 QND/O/V-6012R QND/O/V-6022R QND/O/V-6072R QND/O/V-6082R	QNO-6082R_1.41.16 _20231109_R401	2023/11/28	1.41.16	<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
QND/O/V-6012R1 QND/O/V-6022R1 QND/O/V-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

Network Camera

Model	File	Date	Ver.	Remark
QND/O/V-7012R QND-7022R QND/O/V-7082R	QNO-7082R_1.41.16 _20231109_R171	2023/11/28	1.41.16	- Added the DLL auto tune fu nction to address the camera rebooting issue caused by the fixed DLL value
QND/O/V-8010R QND/E-8011R QND/O/V-8020R QND/O/V-8080R	QNO-8080R_1.42.01 _20240329_R388	2024/03/29	1.42.01	- Added options to configure GOV, dynamic GOV, and dynamic FPS settings of the recording profile. In case of configuration, however, the video may not be recorded properly.
QNP-6320H QNP-6250(H)	QNP-6320H_2.21.04 _20230623_R205	2023/06/28	2.21.04	- Added auto tracking function
QNO-C8083R QNV-C8083R	QNV-C8083R_2.21.10 _20230908_R311	2023/09/20	2.21.10	- Added video analytics features ([People counting], [Heatmap], [Queue management], and [Vehicle counting]) - Added WiseStream 3 features [v2.21.10, QNV
QNV-C9083R	QNV-C9083R_2.21.10 _20230908_R390	2023/09/20	2.21.10	
XNB-6000	XNB-6000_2.10.06 _20240108_R698	2024/02/02	2.10.06	- Improved SUNAPI API of Events status - Corrected an issue that disabled streaming and stopped Common Gateway Interface (CGI) working in certain circumstances when you access the web viewer after adding a camera to Genetec using the ONVIF prot ocol
XNB-8000 XNO-8080R	XNB-8000_2.10.04 _20240105_R716	2024/01/05	2.10.04	
XNB-6001	XNB-6001_2.10.04 _20230516_R574	2023/06/02	2.10.04	- Added setting option to enable or disable simple focus function after [Day/Night] mode op eration
XND-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
XND-8020R	XND-8020R_2.10.02 _20220401_R599	2022/04/20	2.10.02	
XNV-6011	XNV-6011_2.10.02 _20220117_R573	2022/02/07	2.10.02	
XND/V-6080R XND/V-6080(V)	XND-6080_2.22.01 _20240108_R595	2024/01/08	2.22.00	- Corrected an issue that disabled streaming and stopped Common Gateway Interface (CGI) working in certain circumstances when you access the web viewer after adding a camera to Genetec using the ONVIF protocol
XND/V-C6083RV XND/V-C7083RV	XND-C7083RV_2.22.03 _20231025_R410	2023/11/14	2.22.03	- Corrected an issue where the [Time schedule] feature did not intermittently work after the camera rebooted
XNF-8010R(RV)	XNF-8010R_2.10.04 _20230328_R640	2023/05/11	2.10.04	- When setting the H.264/H.265 codec, you can set the minimum bitrate to 10 kbps
XNF-9010RV	XNF-9010RV_2.22.03 _20231025_R448	2023/11/14	2.22.03	- Fixed an issue where the web page was not opened after a virtual channel was added to it
XNF-9013RV	XNF-9013RV _2.22.02_20231027_R333	2023/11/14	2.22.02	- Corrected an issue where the [Time schedule] feature did not intermittently work after the camera rebooted

Encoder / Decoder

Model	Filename	Date	Version	Release Note
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-420	SPE-420_2.21.02_20230803_R152	2023/08/11	2.21.02	- 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
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	2.15.02	2023/03/15	- 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	2.07.03	2024/04/01	- Bug fixes and functional improvements

HDD Compatibility List

Revision 11.24

Release date : 2023.12.14

[Hanwhavision.com](#) > Support > Data Center > HDD Compatibility

☐ Major change

- 1. New model : XRN-6420DB4
 - ST6000VX008-2ZP1, ST4000VX015-3CU1, ST8000VX009-2ZP1,WD8001PURA-64B6VY0
- 2. WD PURU Series Restrictions Added: XRN-6420DB4
 - WD42PURU-64C4CY0, WD63PURU-64C4FY0
 - Only products produced after July 15, 2023