

## 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 - 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.)
XRN-820S XRN-1620B2/SB1 XRN-3210 (B2,B4,RB2) XRN-6410 (B2,B4,DB4,RB2)				
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	- 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	- 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
<a href="#">PNM-12082RVD</a>	<a href="#">PNM-12082RVD_2.22.02 _20240408_R171</a>	<a href="#">2024/04/08</a>	<a href="#">2.22.02</a>	- Corrected an issue where Chinese text didn't appear in the UI even after you chose the language as Chinese
<a href="#">PNM-7082RVD</a>	<a href="#">PNM-7082RVD_2.22.02 _20240408_R141</a>	<a href="#">2024/04/08</a>	<a href="#">2.22.02</a>	
PNM-8082VT	PNM-8082VT_2.22.00 _20231103_R219	2023/11/14	2.22.00	- 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	- 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	- 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	- 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	- Added support for the Cisco Discovery Protocol (CDP) used in CISCO switches
<a href="#">PNM-C34404RQPZ</a>	<a href="#">PNM-C34404RQPZ _23.01.04_20240417_R650</a>	<a href="#">2024/04/17</a>	<a href="#">23.01.04</a>	- Applied an updated web page
PNV-A9081R	PNO-A9081R_2.21.13 _20230414_R782	2023/10/10	2.21.13	- 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	- Added certificate management function
<a href="#">QNF-9010</a>	<a href="#">QNF-9010_2.11.03 _20230509_R444</a>	<a href="#">2024/04/23</a>	<a href="#">2.11.03</a>	- 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	- 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	- 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])
QNV-C9083R	QNV-C9083R_2.21.10 _20230908_R390	2023/09/20	2.21.10	- Added WiseStream 3 features [v2.21.10, QNV
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 protocol
XNB-8000 XNO-8080R	XNB-8000_2.10.04 _20240105_R716	2024/01/05	2.10.04	- 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 protocol
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
XND-8020R	XND-8020R_2.10.02 _20220401_R599	2022/04/20	2.10.02	- Added [Exclusive PTZ control] function to give priority to PTZ control to a specific user and restrict control commands of other users
XNV-6011	XNV-6011_2.10.02 _20220117_R573	2022/02/07	2.10.02	- Added certificate management function
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
<a href="#">Wisenet mobile</a>	<a href="#">2.07.03</a>	<a href="#">2024/04/01</a>	- Bug fixes and functional improvements

## HDD Compatibility List

### Revision 11.24

**Release date : 2023.12.14**

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#### Major change

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