Hanwha Vision

July 2023

Technical Newsletter

July Contents

Technical Information

- Wisenet Device Manager update
- Advanced configuration on SSM Appliance Array
- Lens Initialization setting on focus of PTZ camera

Latest F/W Information

Wisenet Device Manager update

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

1. Model

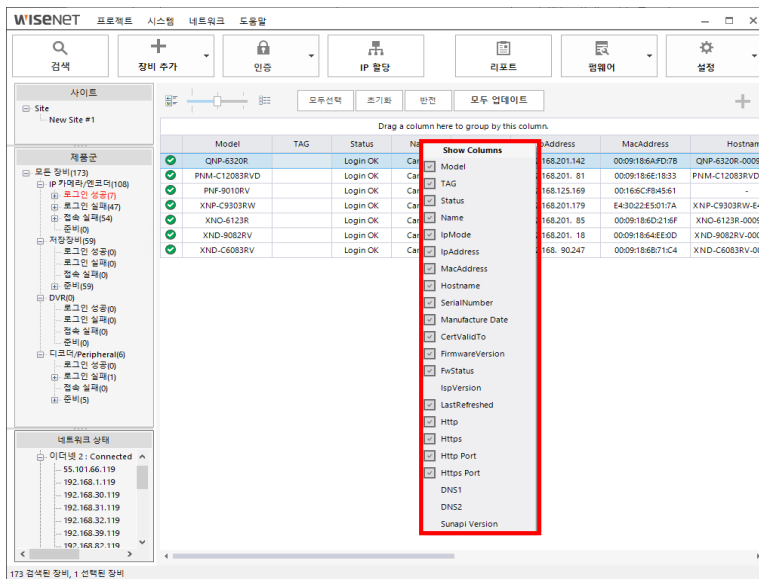- Wisenet Device Manager v2.6.5 updates (v2.5.2 -> **v2.6.5**)

※ Downloadable at Hanwhavision.com

   Home > Support > Online Tool > PC Installation Tool > Wisenet Device Manager
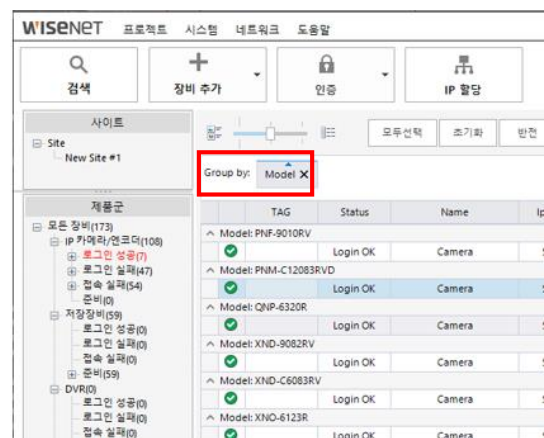
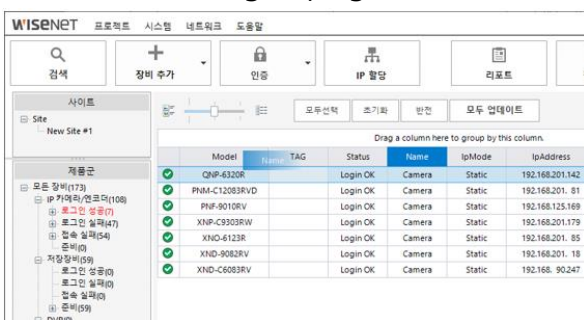## 2. Major improvement points

1) Modified setting method of column main list

. Changed Column setting method, Drag > Drop

2) Main list grouping

. Added main list grouping function
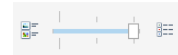
Wisenet Device Manager update

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

3) Changed ViewType function

. Offers 3 ViewTypes(Size)

. Controller is set at middle as default meaning medium size

Left : Large view with Screen Shot displaying basic information

Middle : Middle view, set as default, displaying all information

Right : Small view displaying default profile information of channels at each camera
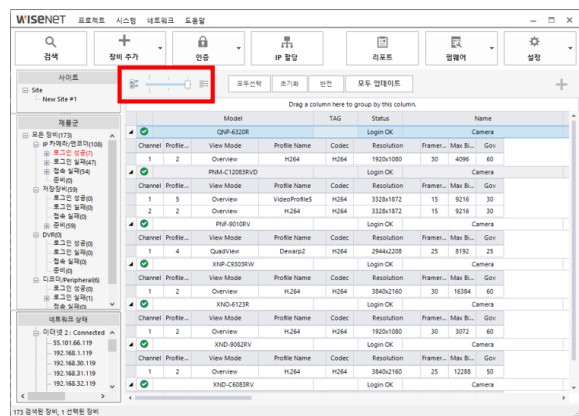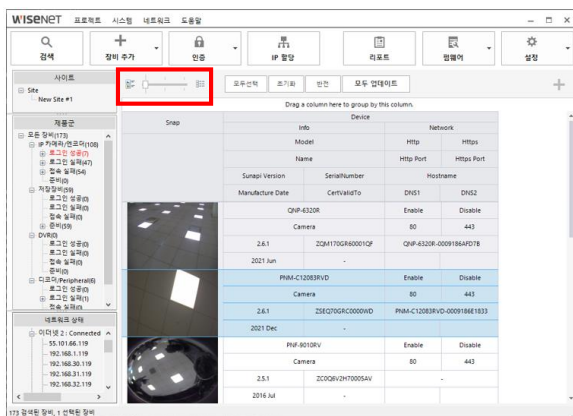
4) Search function

. Ctrl + F or click on list search to find information of main list

5) Tagging

. Able to add tagging at each device, and can be found under the Column > Tag section

Advanced configuration on SSM Appliance Array

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

1. Model

- PRP-5000H16, PRP-4000H8

2. Purpose

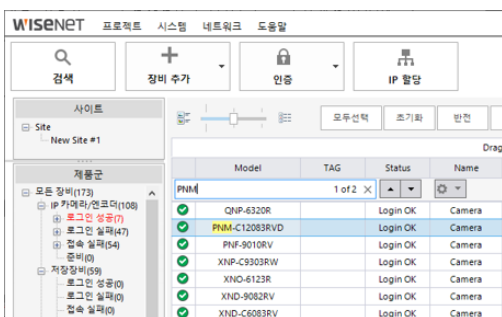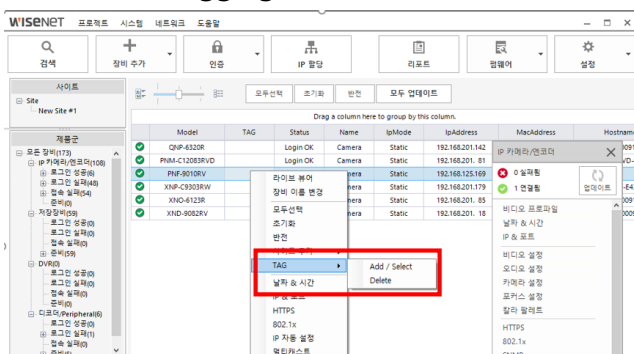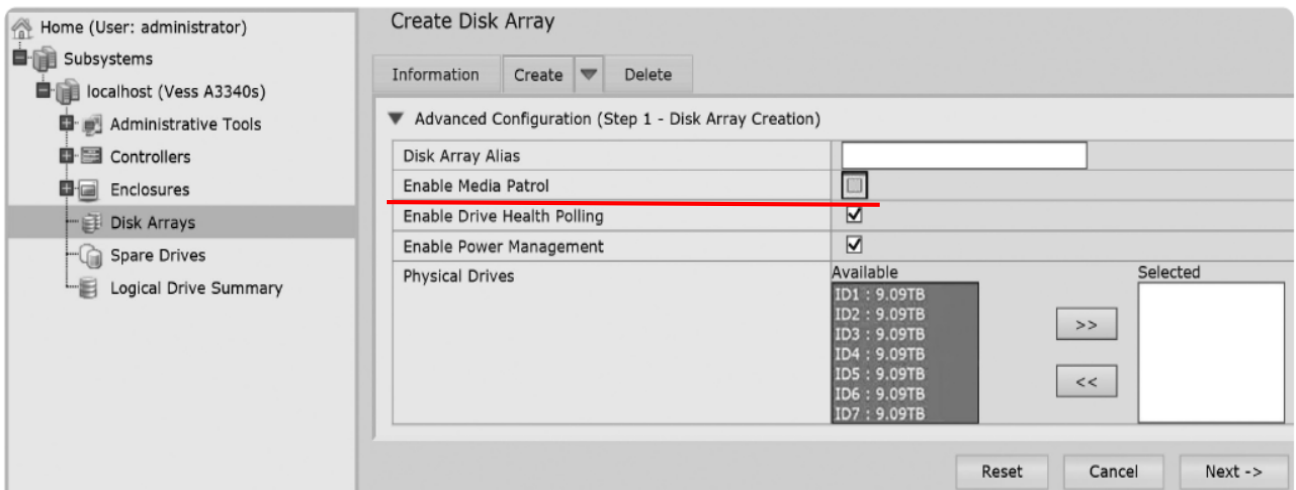- When setting up a disk array, it is recommended to use 'Advanced Configuration' to create logical drives for system optimization

3. Advanced Configuration function (Refer to Quick Guide pg.20)

- Disk Arrays → Advanced configuration → Undo 'Enable Media Patrol'→ Select number of physical drives → Select RAID level → Submit → Check Array content → Logical drive configuration

<Undo 'Enable Media Patrol'>

- When enabling Media Patrol, Disk check performs at every 10sec
- Disk Check continuously consumes memory, thus system cannot offer its optimal performance
- Recommended not to exceed 8 physical drivers per each logical drive

4. Comparison of configuration

Configuration	Explanation	Advantage	Disadvantage
Automatic	Automatic configuration based on mounting HDD and selection options	Configuration is easy and fast	Does not offer optimal saving performance
Express	Automatic configuration based on mounting HDD, number of logical drives requested, and selection options		
Advanced	Configure logical drive manually by user selection	Able to create an optimal logical drive	Requires a separate manual setup procedure

Lens Initialization setting on focus of PTZ camera

| Info. Type | ☐ Quality ■ Settings ☐ Repair ☐ S/W ☐ Etc |

1. Model
- All network PTZ cameras with automatic lens initialization function

2. Purpose
- The default value of the focus-lens initialization is 1day. Thus, the setting value should be changed as per user scenario if necessary

3. When to use automatic lens initialization on focus
- Focus blur may occur if the camera monitors complex scenes or is installed in an environment exposed to vibration. This function automatically optimizes focus at regular intervals

4. Able/Disable & working scenario
- Video & Audio >Camera setting > Focus >Lens initialization
  > Select 1day~7day(Able) / Select manual(Disable)
  ・Able: Lens initialization performs at regular intervals starting from when camera
          was powered up
  ・Disable: Select 'Manual' to perform lens initialization once at user need
- Working scenario: Camera Tilt down > Zoom in > Focus adjust > Move back to the
          position before lens initialization
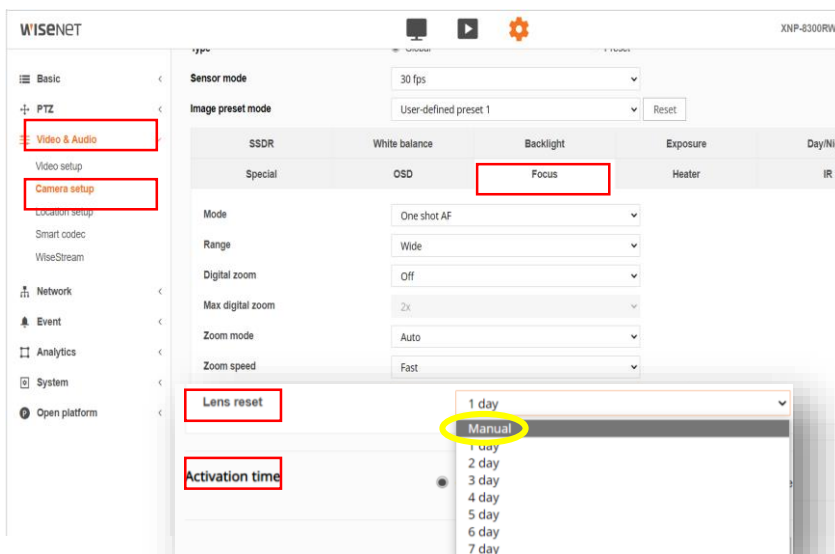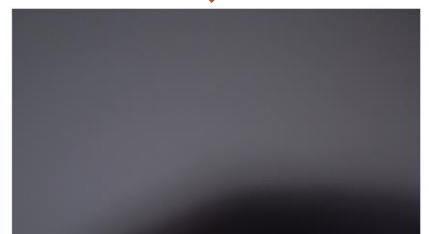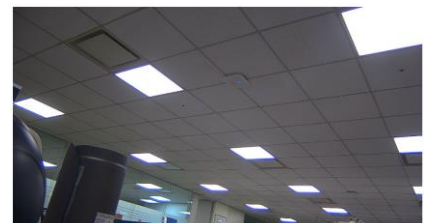
[Focus-lens initialization setting]　　　　　　　　　　[Max. Zoom-in at focus initialization]

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_5.31.11_230328135226	2023/04/13	5.31.11	- Added new features and bug fixed, find release note for detail

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_5.30.42_230424163326	2023/05/10	5.30.42	- Fixed mouse not clicking intermittently in live mode - Fixed event time output error when searching POS of SSM - Fixed the problem that video reception error occurs when receiving camera video in HTTPS mode - Fixed an error in video reception when registering URL of RTSP UDP multicast - Records HDD number when "HDD error" or "HDD verification required" log occurs - Fixed an issue where "video loss" was displayed when a sequence was running
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_5.06.32_230206123427	2023/03/28	5.06.32	- HDD performance improved
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.
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	- Fixed an issue where a video cannot be received when some cameras are connected via ONVIF.
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_1.41.12_20230426_R149	2023/05/09	1.41.12	- 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_2.21.00_20220420_R134	2022-05-20	2.21.00	- Improved initial focus
PNM-7082RVD	PNM-7082RVD_2.21.00_20220414_R104	2022-05-20	2.21.00	
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_2.22.00_20230418_R77	2023/05/01	2.22.00	- When setting the H.264/H.265 codec, you can set 10 kbps as the minimum bitrate.
PNM-9084QZ(RQZ)/1 PNM-9085RQZ/1	PNM-9084QZ_2.22.00_20230418_R371	2023/05/01	2.22.00	- Displays the company name as Hanwha Vision in the web viewer
PNM-9322VQP	PNM-9322VQP_2.22.00_20230418_R151	2023/05/01	2.22.00	- 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-9022V	PNM-9022V_2.01.02_20230404_R149	2023/05/11	2.01.02	- 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	- 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_2.11.03_20220519_R216	2022/06/09	2.11.03	- Fixed timestamp errors
PND-A9081RV /RF PNO/V-A9081R	PNO-A9081R_2.11.10_20220519_R614	2022/06/09	2.11.10	
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
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
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	- 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 - 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

Latest F/W Information

Hanwha Vision

Network Camera

Model	Filename	Date	Version	Release Note
QND/O/V-6012R1/6022R1/6072R1/6082R1	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
QND/O/V-7012R/7022R/7032R/7082R	QNO-7082R_1.41.05_20230426_R125	2023/05/09	1.41.05	- 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
QNP-6250(H) QNP-6320(H/R)	QNP-6320H_2.21.02_20220809_R199	2022/09/05	2.21.02	- Added auto tracking function
XNO-6080R	XNB-6000_2.10.05_20230516_R685	2023-06-02	2.10.05	
XNV-6080(R/RSA) XND-6080 (R/V/RV)	XND-6080_2.10.04_20230516_R578	2023/06/02	2.10.04	- When setting the H.264/H.265 codec, you can set 10 kbps as the minimum bitrate.
XNO/V-6120R	XNO-6120R_2.10.04_20230516_R562	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 curser - 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_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-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	
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)	XND-6083RV_2.22.01_20230418_R307	2023/05/01	2.22.01	- Updated the open-source library version - Fixed the problem that the SD card status becomes "SD Error" when encrypting the SD card - Fixed an issue where bicycles or motorcycles were detected as people - TLS1.0/TLS1.1 not supported for SRTP (port:322) - Updated the curl library to the latest - Supports items corresponding to number 60 among DHCP options
XND/O/V-8082/9082(R/RV/RF)	XNV-9082R_2.22.01_20230418_R456	2023/05/01	2.22.01	
XND/O/V-8083R(RV)/9083R(RV)	XND-9083RV_2.22.01_20230418_R313	2023/05/01	2.22.01	
XND-C6083RV/C7083RV XNV/O-C6083R/C7083R	XND-C7083RV_2.22.01_20230418_R392	2023/05/01	2.22.01	
XND-C8083RV/C9083RV XNV/O-C8083R/C9083R	XND-C9083RV_2.22.01_20230418_R407	2023/05/01	2.22.01	
XNF-9010RV/RS/RVM	XNF-9010RV_2.22.01_20230418_R433	2023/05/01	2.22.01	
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

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_5.10.32 _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-1610	SPE1610_1.31 _200310_1706	2020/03/25	1.31	
SPE-1620	2.11.02_20220426	2022/04/26	2.11.02	- Improved Genetec compatibility
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
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	2.13.01	2023/06/08	- 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	2.06.01	2023/06/08	- Bug fixes and functional improvements

HDD Compatibility List

Revision 11.14

Release date : 2023.04.18

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

☐ **Major change**

1. HRD-435FN 6TB support -> Does not support

2. HRX-1632 -> ARD-1610