

Hanwha Techwin

# Network Camera Version 1.21

## Release Note

v1.21

2018-11-2

### Copyright

© 2018 Hanwha Techwin Co., Ltd. All rights reserved.

### Restriction

Do not copy, distribute, or reproduce any part of this document without written approval from Hanwha Techwin Co., Ltd.

### Disclaimer

Hanwha Techwin Co., Ltd. has made every effort to ensure the completeness and accuracy of this document, but makes no guarantees regarding the information contained herein. All responsibility for proper and safe use of the information in this document lies with users. Hanwha Techwin Co., Ltd. may revise or update this document without prior notice.

### Contact Information

Hanwha Techwin Co., Ltd.

Hanwha Techwin R&D Center, 701, Sampyeong-dong,  
Bundang-gu, Seongnam-si, Gyeonggi-do, Korea, 463-400


[www.hanwha-security.com](http://www.hanwha-security.com)

# Table of Contents

<b>HTW Network Camera Version 1.21 .....</b>	<b>3</b>
Common Features .....	3
<b>Affected Products .....</b>	<b>4</b>
<b>HTW Network Camera Version 1.20 .....</b>	<b>7</b>
Common Features .....	7
Security Improvements .....	9
Protocol Improvements .....	9
Open Platform Version 3.50 Upgrade.....	9
<b>Affected Products .....</b>	<b>10</b>
<b>[Attachment 1] HTW Camera Version Management.....</b>	<b>13</b>
Camera Version Management Procedure.....	13
Camera Version Rules.....	14

# HTW Network Camera Version 1.21

This document describes the new and changed features of Hanwha Techwin network camera version 1.21.

 Released on NOV 2, 2018

---

## Common Features

### Improvements

- Fixed an issue where the newly added web page menu would not be displayed properly due to the existing browser cache when upgrading from the previous version (browser refresh is required for the first connection after upgrading)

### Bug fixes

- Fixed a problem that the image was not displayed when the plugin-free profile was changed, due to the performance limitation in IE11 / Win10

# Affected Products

**Table 1. Product Family Based On Version 1.21**

Major Model	Model Name
XNB-6000	XNB-6000 KNB-2000 KNO-2080RN XNO-6080R
XNO-6010R	XNO-6010R KNO-2010RN XNO-6020R
XND-6010	XND-6010 XNV-6010
XND-6020	XND-6020R KND-2020RN XNV-6020R
XND-6080	XND-6080 XND-K6080N KND-2080RN XND-6080R XND-6080RV XND-6080V XNV-6080 XNV-6080R XNV-6080RS
XNB-8000	XNB-8000 KNB-5000N KNO-5080RN XNO-8080R XNO-8080RW
XNO-8020R	XNO-8020R XNO-8030R XNO-8040R

XND-8020R	XND-8020R KND-5020RN XND-8030R XND-8040R KNO-5020RN XNV-8020R XNV-8030R XNV-8040R
XND-8080R	XND-8080R KND-5080RN XND-8080RV XNV-8080R XNV-8080RS
XNF-8010R	XNF-8010R XNF-8010RW XNF-8010RV XNF-8010RVW XNF-8010RVM
XNO-6120R	XNO-6120R KNO-2120RN XNO-6120RS XNV-6120 XNV-6120R XNV-6120RS
XND-L6080R	XND-L6080R XND-L6080RV XND-L6080V XNV-L6080 XNV-L6080R
XNV-6012	XNV-6012 XNV-6012M XNV-6013M XNV-6022R XNV-6022RM
XNB-6001	XNB-6001 XNB-6005 XND-6085 XND-6085V XNO-6085R

XNB-6005	XNB-6005 XND-6085 XND-6085V XNO-6085R
XND-6011F	XND-6011F
XND-8020F	XND-8020F
XNP-6040H	XNP-6040H
XNP-6120H	XNP-6120H KNP-2120HN
XNP-6320	XNP-6320 XNP-6320H XNP-6320HS QNP-6230 QNP-6230H
XNP-6371RH	XNP-6371RH
XNV-6011	XNV-6011 XNV-6011W
XNV-6085	XNV-6085 XND-6085 XND-6085V
TNB-6030	TNB-6030
XNZ-6320	XNZ-6320

# HTW Network Camera Version 1.20

This document describes the new and changed features of Hanwha Techwin network camera version 1.20.

 Released on OCT 12, 2018

---

## Common Features

### New Features

- Added a function called Frame Lock to always maintain the number of frames/sec (fps) of one user selected profile when multi profiles are used
- Added a function to configure the codec of profiles 1, 2 and 3
- Added a hostname function
- Supported LLDP as a steady-state power device
- Added a function to configure overlay box for detected objects in motion detection, IVA, and face detection.
- Added a function to configure minimum/maximum object size in motion detection
- Added a function to configure minimum duration in motion detection and Intrusion detection (up to 5 secs)
- Added an audio noise reduction function under Setup – Audio Setup – Audio Setup – Audio in
- Added the USB connect/disconnect message in SNMP Trap Service
- Added a function to enable/disable USB port under the Setup – Video & Audio - Video Setup
- Added a function to configure home position and execute auto run (optical zoom cameras)
- Added queue management, heatmap, people counting (Mobile cameras)
- Added an option of new P-IRIS Tamron lens (P-IRIS supported cameras)
- Added a function to control pan/tilt, area zoom by mouse drag and control zoom by mouse wheel scroll in web viewer (optical zoom cameras and PTZ cameras)

- Added a shock detection function (XNV-6085, XND-6085, XND-6085V, XNP-6120H, XNP-6320H)

### **Improvements**

- Improved a function to configure pan/tilt control speed (PTZ cameras)
  - Increased proportional PT mode options to 8 stages and setting is applied at 1x zoom ratio
- Changed the factory defaults values of UPnP, Bonjour, and Link-Local IPv4 address to disable
- Improved a function to configure all image parameters other than sensor mode for predefined image preset mode and added 2 UserPreset options
  - After upgrading firmware from prior to 1.2 version, the previous UserPreset configuration will be applied to UserPreset1 and all schedule configurations will be reset.
- Improved the schedule configuration
  - Expressed day of the week instead of date
  - Changed the image preset schedule configuration to same as other schedule configuration
- Improved indoor representation of WDR low and middle levels
- Changed the default value of minimum shutter speed to provide optimized value to keep framerate.
- Improved day/night switching timing (Built-in IR LED models)

### **Bug fixes**

- Fixed an issue that anti flicker configuration in UserPerset mode is not be applied after reboot
- Fixed an issue that a certain key data does not work correctly in 802.1x certificate.
- Fixed an issue that the focus does not work correctly via Pelco-D protocol (External RS-485 control supported models)
- Fixed an issue that AF operation does not work due to Gyro sensor (PTZ cameras having Gyro sensor)



---

## Security Improvements

- Removed Active-X/NPAPI plug-ins from the web viewer
- Removed the PHP module from the web viewer
- Added an SRTP function (TCP /UDP unicast)

---

## Protocol Improvements

- Added a feature to send time data whit UTC format when a user searches recorded data in SD/NAS via SUNAPI protocol
- Added an attribute that specifies the DPTZ, PTZ, and Zoom capabilities via SUNAPI protocol
- Improved ONVIF features
  - Supported motion area configuration in VideoAnalytics service
  - Supported VideoSourceModes in Media service
  - Supported UTF-8 format OSD control in Media service
  - Supported PTZ PresetTour in PTZ service
  - Supported firmware upgrade
  - Supported "tns1: VideoSource/MotionAlarm" event
- Applied the unified SNMP MIB (Keep backward compatibility, the previous MIB files can be used)
- Added the likelihood data of sound classification via metadata streaming

---








## Open Platform Version 3.50 Upgrade







- Added a function to create a profile
- Added APIs to use the SUNAPI protocol
- Added a feature to write and save system/event log data

※ Open Platform SDK should be upgraded to 3.50 version

# Affected Products

**Table 2. Product Family Based On Version 1.20**

Major Model	Model Name	Release history prior to 1.20
XNB-6000	XNB-6000 KNB-2000 KNO-2080RN XNO-6080R XNO-6080RA XNO-6080RS	 ReleaseNotes_XNB-6000_1.14_en.txt
XNO-6010R	XNO-6010R KNO-2010RN XNO-6020R	 ReleaseNotes_XNO-6010R_1.14_en.txt
XND-6010	XND-6010 XNV-6010	 ReleaseNotes_XND-6010_1.14_en.txt
XND-6020	XND-6020R KND-2020RN XNV-6020R	 ReleaseNotes_XND-6020R_1.14_en.txt
XND-6080	XND-6080 XND-K6080N KND-2080RN XND-6080R XND-6080RV XND-6080V XNV-6080 XNV-6080R XNV-6080RS	 ReleaseNotes_XND-6080_1.14_en.txt
XNB-8000	XNB-8000 KNB-5000N KNO-5080RN XNO-8080R XNO-8080RW	 ReleaseNotes_XNB-8000_1.14_en.txt
XNO-8020R	XNO-8020R XNO-8030R XNO-8040R	 ReleaseNotes_XNO-8020R_1.14_en.txt

XND-8020R	XND-8020R KND-5020RN XND-8030R XND-8040R KNO-5020RN XNV-8020R XNV-8020RMN XNV-8020RMP XNV-8030R XNV-8040R	 ReleaseNotes_XND-8020R_1.14_en.txt
XND-8080R	XND-8080R KND-5080RN XND-8080RV XNV-8080R XNV-8080RS	 ReleaseNotes_XND-8080R_1.14_en.txt
XNF-8010R	XNF-8010R XNF-8010RW XNF-8010RV XNF-8010RVW XNF-8010RVM	 ReleaseNotes_XNF-8010R_1.14_en.txt
XNO-6120R	XNO-6120R KNO-2120RN XNO-6120RS XNV-6120 XNV-6120R XNV-6120RS	 ReleaseNotes_XNO-6120R_1.15_en.txt
XND-L6080R	XND-L6080R XND-L6080RV XND-L6080V XNV-L6080 XNV-L6080R	 ReleaseNotes_XNV-L6080_1.01_en.txt
XNV-6012	XNV-6012 XNV-6012M XNV-6013M XNV-6022R XNV-6022RM	 ReleaseNotes_XNV-6022RM_1.01_en.txt

XNB-6001	XNB-6001 XNB-6005 XND-6085 XND-6085V XNO-6085R	 ReleaseNotes_XNB-6001_1.14_en.txt
XNB-6005	XNB-6005 XND-6085 XND-6085V XNO-6085R	 ReleaseNotes_XNB-6005_1.14_en.txt
XND-6011F	XND-6011F	 ReleaseNotes_XND-6011F_1.14_en.txt
XND-8020F	XND-8020F	 ReleaseNotes_XND-8020F_1.14_en.txt
XNP-6040H	XNP-6040H	 ReleaseNotes_XNP-6040H_1.14_en.txt
XNP-6120H	XNP-6120H KNP-2120HN	 ReleaseNotes_XNP-6120H_1.14_en.txt
XNP-6320	XNP-6320 XNP-6320H XNP-6320HS QNP-6230 QNP-6230H	 ReleaseNotes_XNP-6320_1.01_en.txt
XNP-6371RH	XNP-6371RH	 ReleaseNotes_XNP-6371RH_1.02_en.txt
XNV-6011	XNV-6011 XNV-6011W	 ReleaseNotes_XNV-6011_1.14_en.txt
XNV-6085	XNV-6085 XND-6085 XND-6085V	 ReleaseNotes_XND-6085_1.14_en.txt
TNO-4050	TNO-4050 TNO-4040 TNO-4051 TNO-4041 TNO-4030	 ReleaseNotes_TNO-4050_1.01_en.txt
TNB-6030	TNB-6030	 ReleaseNotes_TNB-6030_1.14_en.txt

# [Attachment 1] HTW Camera Version Management

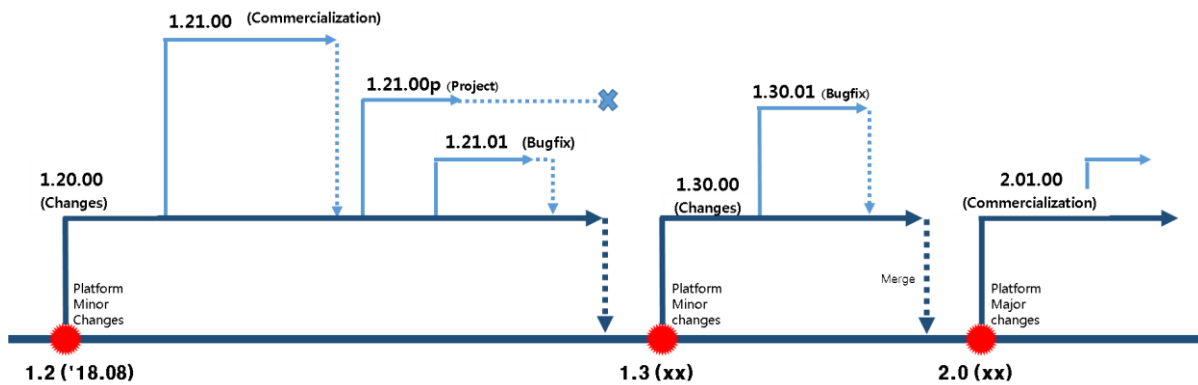
This describes the Hanwha Techwin network camera version rule. A camera version is updated when new features are added or bugs are fixed, and there are the following two categories:

- Platform change - Version update due to changes in the software platform structure and major feature changes
- Product change - Version update to fix reported bugs and solve potential problems

## Camera Version Management Procedure

The firmware of Hanwha Techwin camera products are being developed based on the common platform, and this is developed across all camera product development.

Any features developed for a product firmware will be consolidated into the common platform and applied to new camera products accordingly.



## Camera Version Rules

The camera version is structured as below and it is generated using the following rules.

**<PlatformMajor>.<PlatformMinor><ProductMajor>.<ProductMinor>**

- Platform - Specifies the release version of the common platform
  - Major - Reflects any changes in platform structure and major feature changes.
  - Minor – Reflects upgrade with new features and consolidated changes that apply to all models.
- Product - Specifies the product release version
  - Major – Reflects the addition of major product features and changes.
  - Minor - Reflects firmware changes for minor fixes that solve reported bugs and potential problems

Each firmware release is displayed using a unique number given to each release type and is a combination of a platform version and a product version. The following examples explain the version rules.



Version 1.20.00 indicates the combination of platform version 1.2 and product version 0.00. It represents the first product that is applied with the common platform version 1.2.



Version 1.22.10 indicates the combination of platform version 1.2 and product version 2.10. It represents a product that is applied with the common platform version 1.2 and updated twice.