

Never miss a thing

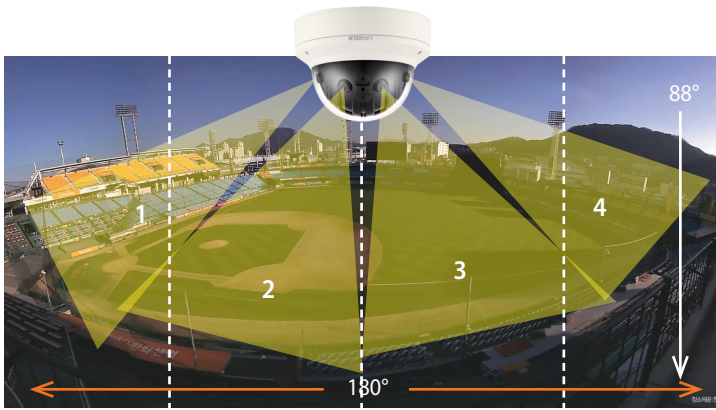


WISENET P series

Premium Multi-sensor cameras

Four cameras in one

Wisenet P series multi-sensor cameras have four sensors. 180° panoramic camera provides wide view with up to 7.3 megapixel high resolution within single camera instead of installing 4 cameras. It offers seamless single image even it's merged 4 images from each sensor. And using multi-directional cameras, you can monitor multiple directions simultaneously without blind. They are ideal for wide areas such as shopping mall entrances, lobbies, and airports.



Multi-sensor cameras lineup

	8MP	20MP
Panoramic camera	 PNM-9020V	Coming soon
Multi-directional cameras	 PNM-9080VQ	 PNM-9081VQ

Accessories Configuration



Multiple view modes

The Multi sensor camera offers panoramic(16:9), half panoramic(4:3) and 3PTZ modes with a panoramic view. The four sensors in the multi-directional camera can move independently of one another. In addition, one of the sensors can easily be removed and attached in the centre of the camera, allowing for flexible set-up. So you can set the mode flexibly what you want.

PNM-9020V

Panorama



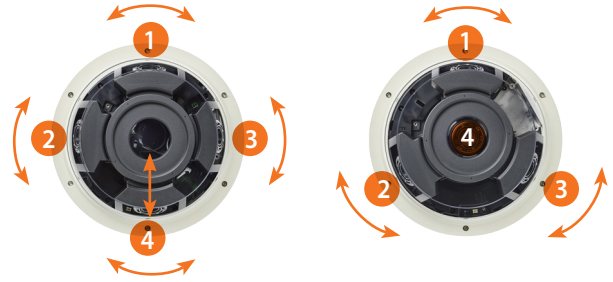
Half Panorama(4:3)



Panorama + 3PTZ



PNM-9080VQ/9081VQ



Natural and clearer image

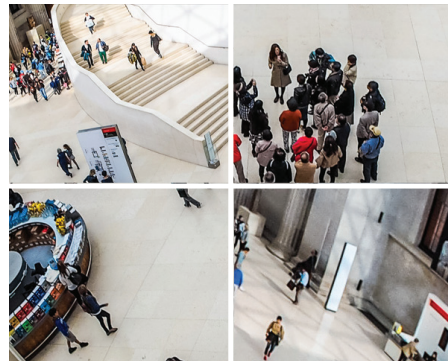
When using a fisheye camera, it brings low image quality and image distortion at each edge of the image. However, the Multi-directional camera with 4 sensors brings almost non image distortion and shows clearer image at each edge of the image.



Fisheye camera



Low image quality and image distortion at the edges.



PNM-9080VQ/9081VQ

Clearer image and almost non distortion at the edges.

Optimized design for indoor and outdoor environments

Wisenet P series multi sensor and multi directional cameras are suitable for wherever you want to monitor. They are ideal for applications such as parking lots, shopping mall entrances, lobbies, station concourses and airports supporting IP66, IK10.



Warehouses



Mall entrances



Large area and outdoor

Improve bandwidth by up to 99% using WiseStream II

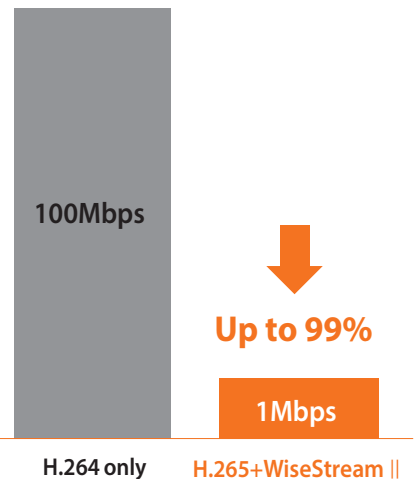
Using WiseStream II, Hanwha Techwin's original video compression technology, the Wisenet X series reduces data by up to 99% compared to current H.264 technology, when combined with H.265 compression. System costs are also greatly reduced without comprising image quality.



WiseStream II OFF : 7160kbps
WiseStream II ON : 74kbps



WiseStream II OFF : 7260kbps
WiseStream II ON : 1817kbps



PNM-9020V

7.3Megapixel Multi-sensor 180° Panoramic Camera

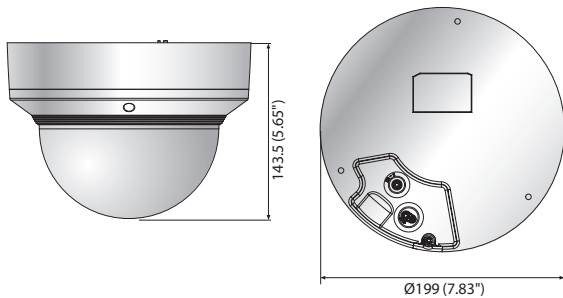


Key Features

- Max. 7.3M (4096 x 1800) resolution
- Built-in 3.6mm fixed lens
- H.265/H.264 : Max. 30fps at all resolutions
MJPEG : Max. 15fps at all resolutions
- H.265, H.264, MJPEG codec supported, Multiple streaming
- Motion detection, Hand over to PTZ, Tampering, Defocus detection, Digital auto tracking, Heatmap
- SD/SDHC/SDXC (128GB) memory slot, PoE+ / 12V DC
- WiseStream supported, IP66, IK10

Dimensions

Unit : mm (inch)



Accessories (Optional)



PNM-9020V

VIDEO	
Imaging Device	7.3M (2M x 4)
Total / Effective Pixels	5,152(H) x 1,981(V) / 4,096(H) x 1,800(V)
Scanning System	Progressive
Min. Illumination	Color : 0.3Lux (1/30sec), B/W : 0.03Lux (1/30sec)
LENS	
Focal Length (Zoom Ratio)	3.6mm fixed
Max. Aperture Ratio	F2.0
Angular Field of View	[Total 4sensor] H : 180°, V : 84°
Min. Object Distance	1.5m (4.92ft)
Focus Control	Manual
Lens / Mount Type	Fixed / Board type
PAN / TILT / ROTATE	
Pan / Tilt Range	0° ~ 355° / 0° ~ 60°
OPERATIONAL	
Camera Title	Off / On (Displayed up to 45 characters) - W/W : English / Numeric / Special characters - Korea : English / Numeric / Special / Korean characters - China : English / Numeric / Special / Chinese characters - Common : Multi-line (Max. 6), Color (Grey / Green / Red / Blue / Black / White), Transparency, Auto scale by resolution
Day & Night	Auto (ICR) / Color / B/W / External / Schedule
Backlight Compensation	Off / BLC
Contrast Enhancement	SSDR (Off / On)
Digital Noise Reduction	SSNR III (2D+3D noise filter) (Off / On)
Defog	Off / Auto / Manual
Motion Detection	Off / On (8ea, Polygonal), Hand over
Privacy Masking	Off / On (16ea, Polygonal with 4 lines only) - Color : Grey / Green / Red / Blue / Black / White
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor (Not included mercury & sodium)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker
Flip / Mirror	Off / On
Digital PTZ	Support
Intelligent Video Analytics	Tampering, Virtual line, Enter / Exit, (Dis)Appear, Audio detection, Defocus detection, Digital auto tracking, Heat map
Alarm I/O	Input 1 / Output 1
Alarm Triggers	Alarm input, Motion detection, Tampering (Scene change), Virtual line, Enter / Exit, (Dis)Appear, Audio detection, Defocus detection
Alarm Events	File upload via FTP, E-mail, Notification via E-mail, Local storage (SD/SDHC/SDXC) or NAS recording at event triggers, External output
Pixel Counter	Support (Plug-in viewer only)
View Composition	Plug-in : Single panorama, Panorama +3 PTZ, Plug-in free : 3D view
NETWORK	
Ethernet	RJ-45 (1000BASE-T), Plug-in type
Video Compression Format	H.265 / H.264 (MPEG-4 part 10/AVC) : Main / Baseline / High, MJPEG [Panorama] 4096 x 1800, 3584 x 1576, 3072 x 1352, 2560 x 1124, 2048 x 900,
Resolution	1536 x 676, 1024 x 452, 512 x 224, 720 x 576 [HalfView] 2048 x 1536, 1600 x 1200, 1024 x 768, 800 x 600
Max. Framerate	H.265 / H.264 : Max. 30fps@all resolutions, MJPEG : Max. 15fps
Smart Codec / WiseStream	Manual mode (Area-based : 5ea) / Support
Video Quality Adjustment	H.265 / H.264, MJPEG : Target bitrate level control
Bitrate Control Method	H.265 / H.264 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio In	Line in, Supply voltage : 2.5V DC (4mA), Input impedance : approx. 2K Ohm
Audio Out	Line out (3.5mm stereo mini jack)
Audio Compression Format	G.711 u-law / G.726 selectable, G.726 (ADPCM) 8KHz, G.711 8KHz, G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps, AAC-LC : 48Kbps at 16KHz
Audio Communication	Bi-directional (2-way)
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
Security	HTTPS (SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x authentication (EAP-TLS, EAP-LEAP)
Streaming Method	Unicast / Multicast
Max. User Access	15 users at unicast mode SD/SDHC/SDXC (up to 128GB)
Storage	- Motion images recorded in the SD/SDHC/SDXC memory card can be downloaded - Camera can detect automatically when the memory is connected - Memory status display (Normal / Error / Active / Formatting / Lock) NAS (Network Attached Storage), Local PC for instant recording (Plug-in viewer only)
Application Programming Interface	ONVIF profile S/G SUNAPI (HTTP API), SVPN, Wisenet Open Platform
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungary, Greek Supported OS : Windows 7, 8.1, 10, MacOS X 10.9, 10.10, 10.11 Plug-in Free Webviewer
Web Viewer	- Supported Browser : Google Chrome 47, MS Edge 20, Mozilla Firefox 43, Apple Safari 9 * Mac OS X only Plug-in Webviewer - Supported Browser : MS Explore 11, Mozilla Firefox 43, Apple Safari 9 * Mac OS X only SmartViewer, SSM
Central Management Software	
ENVIRONMENTAL	
Operating Temperature / Humidity	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH * Start up should be done at above -35°C (-31°F)
Storage Temperature / Humidity	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection / Vandal Resistance	IP66 / IK10
ELECTRICAL	
Input Voltage / Current	PoE+ (IEEE802.3at) / 12V DC
Power Consumption	Max. 25.5W (PoE+, Heater on), Max 21.0W (12V DC, Heater on)
MECHANICAL	
Color / Material	Ivory / Aluminum
Dimensions (WxH)	Ø199.0 x 143.5mm (Ø7.83" x 5.65")
Weight	2.03Kg (4.5 lb)

* The latest product information / specification can be found at hanwha-security.com
* Design and specifications are subject to change without notice.

PNM-9081VQ

20Megapixel Multi-directional 360° Camera

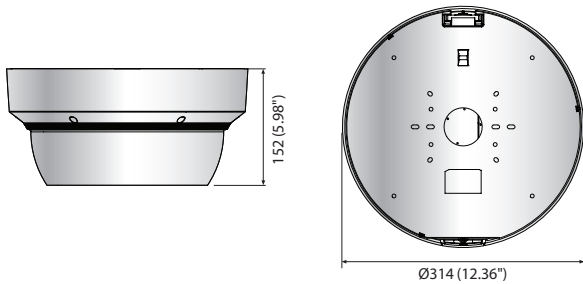


Key Features

- 4ea x 2560 x 1920 resolution (Max. 20MP)
- 4ea x 3.6 ~ 9.4mm (2.6x) motorized varifocal lens
- 4ea x Max. 30fps@5M (H.265, H.264)
- Digital Image Stabilization with Built-in Gyro Sensor
- H.265, H.264, MJPEG Codec Supported
- Day & Night (ICR), WDR (120dB)
- Motion detection, Tampering, Advanced Video Analytics
- SD / SDHC / SDXC Memory slot, WiseStreamII Support

Dimensions

Unit : mm (inch)



Accessories (Optional)



PNM-9081VQ

VIDEO	
Imaging Device	1/1.8" 6M CMOS x 4
Total / Effective Pixels	3,096(H) x 2,094(V) 6M x 4 / 2,616(H) x 1,976(V) 5M x 4
Scanning System	Progressive Scan
Min. Illumination	Color : 0.07 Lux (F1.2, 1/30sec), B/W : 0.007 Lux (F1.2, 1/30sec)
S / N Ratio	50dB
Video Out	CVBS : 1.0Vp-p / 75Ω composite, 720 x 480(N), 720 x 576(P), for installation (selectable CVBS per Channel)
LENS	
Focal Length (Zoom Ratio)	3.6 ~ 9.4mm (2.6x) motorized varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 102.5°(Wide) ~ 38.7°(Tele), V : 74.2°(Wide) ~ 29.0°(Tele), D : 135.5°(Wide) ~ 48.6°(Tele)
Min. Object Distance	0.5m (1.64ft)
Focus Control	Simple focus (Motorized V/F) / Manual, Remote control via network (Manual, Simple focus)
Lens / Mount Type	DC Auto Iris, P-Iris / Board-in Type
PAN / TILT / ROTATE	
Pan / Tilt / Rotate Range	Quad mode : ±30° / 10° ~ 41° / ±90°, Center mode : ±60° / 10° ~ 41°, 10° ~ 90° (CH2/Center) / ±90°
OPERATIONAL	
Camera Title	Off / On (Displayed up to 85 characters) : Each Ch - W/W : English / Numeric / Special Characters - China : English / Numeric / Special / Chinese Characters - Common : Multi-line (Max 5), Color (Grey / Green / Red / Blue / Black / White), Transparency, Auto Scale by Resolution
Day & Night	Auto (ICR) / Color / B/W / External / Schedule
Backlight Compensation	Off / BLC / HLC (Masking / Dimming), WDR
Wide Dynamic Range	120dB
Contrast Enhancement	SSDR (Off / On)
Digital Noise Reduction	SSNRV (2D + 3D Noise Filter) (Off / On)
Digital Image Stabilization	Off / On (Built-in Gyro sensor)
Defog	Off / Auto / Manual
Motion Detection	Off / On (8ea, 8point Polygonal zones)
Privacy Masking	Off / On (32ea, polygonal zones) - Color : Grey / Green / Red / Blue / Black / White - Mosaic
Gain Control	Off / Low / Middle / High / Manual
White Balance	ATW / AWC / Manual / Indoor / Outdoor (included Mercury & Sodium)
Contrast	Level Adjustment
LDC	Off / On (5 Levels with Min / Max)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec)
Digital Zoom	24x
Flip / Mirror	Flip : Off / On, Mirror : Off / On, Hallway View : 90° / 270°
Intelligent Video Analytics	Tampering, Loitering, Directional Detection, Defocus Detection, Fog Detection, Virtual Line, Enter/Exit, (Dis) Appear, Motion Detection
Alarm I/O	Input 1ea / Output 1ea
Alarm Triggers	Alarm Input, Motion Detection, Video Analytics, Network Disconnect, SD card error
Alarm Events	File upload via FTP, E-Mail, Notification via E-Mail, Local Storage (SD/SDHC/SDXC) recording at Event Triggers, External output
Pixel Counter	Support
NETWORK	
Ethernet	RJ-45 (10/100/1000BASE-T)
Video Compression Format	H.265 / H.264 (MPEG-4 Part 10/AVC) : Main / Baseline / High, Motion JPEG
Resolution	2560 x 1920, 2560 x 1440, 1920 x 1080, 1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 720 x 576, 720 x 480, 640 x 480, 320 x 240
Max. Framerate	H.265 / H.264 : Max. 30fps at all resolutions, Motion JPEG : Max. 30fps
Smart Codec / WiseStreamII	Manual Mode (Area-Based : 5ea) / Support
Video Quality Adjustment	H.265 / H.264 : Target Bitrate Level Control, MJPEG : Quality Level Control
Bitrate Control Method	H.265 / H.264 : CBR or VBR, with WiseStream, MJPEG : VBR
Streaming Capability	Multiple Streaming (Up to 40 Profiles)
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTPSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
Security	HTTPS (SSL) Login Authentication, Digest Login Authentication IP Address Filtering, User Access Log, 802.1X Authentication (EAP-TLS, EAP-LEAP)
Streaming Method	Unicast / Multicast
Max. User Access	20 users at Unicast Mode
Edge Storage	SD / SDHC / SDXC 4slot (Each CH) - Motion Images recorded in the SD / SDHC / SDXC memory card can be downloaded. Local PC for Instant Recording
Application Programming Interface	ONVIF profile S, SUNAPI (HTTP API)
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungary, Greek Supported OS : Windows 7, 8, 10, Mac OS X 10.10, 10.11, 10.12 Non-plugin WebViewer Supported Browser : Google Chrome 54, MS Edge 38, Mozilla Firefox 49 (Windows 64bit only), Apple Safari 9 (Mac OS X only)
Web Viewer	Plug-in WebViewer Supported Browser : MS Explore 11, Apple Safari 9 (Mac OS X only)
ENVIRONMENTAL	
Operating Temperature / Humidity	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH
Ingress Protection / Vandal Resistance	IP66 / IK10
ELECTRICAL	
Input Voltage / Current	12V DC, HPoE (Injector included)
Power Consumption	Max. 28.8W (12V DC), Max. 33.6W (HPoE)
MECHANICAL	
Color / Material	Ivory / Aluminum
Dimensions (WxH)	Ø314 x 152mm (Ø12.36" x 5.98")
Weight	4.89kg (10.78 lb)

* The latest product information / specification can be found at hanwha-security.com
* Design and specifications are subject to change without notice.

PNM-9080VQ

8Megapixel Multi-directional 360° Camera

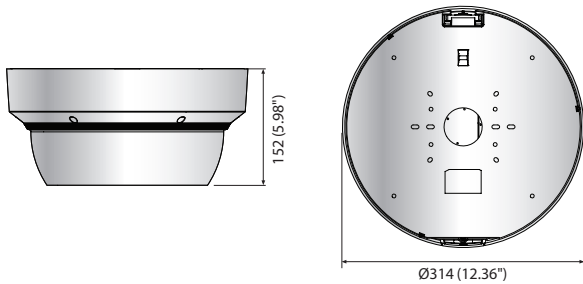


Key Features

- 4ea x 1920x1080 resolution (Max. 8MP)
- 4ea x 2.8 ~ 12mm (4.3x) motorized varifocal lens
- 4ea x Max. 60fps@2M (H.265, H.264)
- Digital Image Stabilization with Built-in Gyro Sensor
- H.265, H.264, MJPEG Codec Supported
- Day & Night (ICR), WDR (150dB)
- Motion detection, Tampering, Advanced Video Analytics
- SD / SDHC / SDXC Memory slot, WiseStreamII Support

Dimensions

Unit : mm (inch)



Accessories (Optional)



PNM-9080VQ

VIDEO	
Imaging Device	1/2.8" 2.38M CMOS x4
Total / Effective Pixels	1,945(H) x 1,109(V) 2.16M x4 / 1,945(H) x 1,097(V) 2.13M x4
Scanning System	Progressive Scan
Min. Illumination	Color : 0.015 Lux (F1.4, 1/30sec), B/W : 0.0015 Lux (F1.4, 1/30sec)
S / N Ratio	50dB
Video Out	CVBS : 1.0Vp-p / 75Ω composite, 720 x 480(N), 720 x 576(P), for installation (selectable CVBS per Channel)
LENS	
Focal Length (Zoom Ratio)	2.8 ~ 12mm (4.3x) motorized varifocal
Max. Aperture Ratio	F1.4(Wide) ~ F3.6(Tele)
Angular Field of View	H : 119.5°(Wide) ~ 27.9°(Tele), V : 62.8°(Wide) ~ 15.7°(Tele), D : 142.1°(Wide) ~ 32.0°(Tele)
Min. Object Distance	0.5m (1.64ft)
Focus Control	Simple focus (Motorized V/F) / Manual, Remote control via network (Manual, Simple focus)
Lens / Mount Type	DC Auto Iris, P-Iris / Board-in Type
PAN / TILT / ROTATE	
Pan / Tilt / Rotate Range	Quad mode : ±30° / 10° ~ 41° / ±90°, Center mode : ±60° / 10° ~ 41°, 10° ~ 90° (CH2/Center) / ±90°
OPERATIONAL	
Camera Title	Off / On (Displayed up to 85 characters) : Each Ch - W/W : English / Numeric / Special Characters - China : English / Numeric / Special / Chinese Characters - Common : Multi-line (Max 5), Color (Grey / Green / Red / Blue / Black / White), Transparency, Auto Scale by Resolution
Day & Night	Auto (ICR) / Color / B/W / External / Schedule
Backlight Compensation	Off / BLC / HLC (Masking / Dimming), WDR
Wide Dynamic Range	150dB
Contrast Enhancement	SSDR (Off / On)
Digital Noise Reduction	SSNRV (2D + 3D Noise Filter) (Off / On)
Digital Image Stabilization	Off / On (Built-in Gyro sensor)
Defog	Off / Auto / Manual
Motion Detection	Off / On (8ea, 8point Polygonal zones)
Privacy Masking	Off / On (32ea, polygonal zones) - Color : Grey / Green / Red / Blue / Black / White - Mosaic
Gain Control	Off / Low / Middle / High / Manual
White Balance	ATW / AWC / Manual / Indoor / Outdoor (included Mercury & Sodium)
Contrast	Level Adjustment
LDC	Off / On (5 Levels with Min / Max)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec)
Digital Zoom	24x
Flip / Mirror	Flip : Off / On, Mirror : Off / On, Hallway View : 90° / 270°
Intelligent Video Analytics	Tampering, Loitering, Directional Detection, Defocus Detection, Fog Detection, Virtual Line, Enter/Exit, (Dis) Appear, Motion Detection
Alarm I/O	Input 1ea / Output 1ea
Alarm Triggers	Alarm Input, Motion Detection, Video Analytics, Network Disconnect, SD card error
Alarm Events	File upload via FTP, E-Mail, Notification via E-Mail, Local Storage (SD/SDHC/SDXC) recording at Event Triggers, External output
Pixel Counter	Support
NETWORK	
Ethernet	RJ-45 (10/100/1000BASE-T)
Video Compression Format	H.265 / H.264 (MPEG-4 Part 10/AVC) : Main / Baseline / High, Motion JPEG
Resolution	1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 450, 720 x 576, 640 x 480, 640 x 360, 320 x 240
Max. Framerate	H.265 / H.264 : Max. 60fps at all resolutions, Motion JPEG : Max. 30fps
Smart Codec / WiseStreamII	Manual Mode (Area-Based : 5ea) / Support
Video Quality Adjustment	H.265 / H.264 : Target Bitrate Level Control, MJPEG : Quality Level Control
Bitrate Control Method	H.265 / H.264 : CBR or VBR, with WiseStream, MJPEG : VBR
Streaming Capability	Multiple Streaming (Up to 40 Profiles)
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTPSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
Security	HTTPS (SSL) Login Authentication, Digest Login Authentication IP Address Filtering, User Access Log, 802.1X Authentication (EAP-TLS, EAP-LEAP)
Streaming Method	Unicast / Multicast
Max. User Access	20 users at Unicast Mode
Edge Storage	SD / SDHC / SDXC 4slot (Each CH) - Motion Images recorded in the SD / SDHC / SDXC memory card can be downloaded. Local PC for Instant Recording
Application Programming Interface	ONVIF profile S, SUNAPI (HTTP API)
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungary, Greek Supported OS : Windows 7, 8, 10, Mac OS X 10.10, 10.11, 10.12 Non-plugin WebViewer Supported Browser : Google Chrome 54, MS Edge 38, Mozilla Firefox 49 (Windows 64bit only), Apple Safari 9 (Mac OS X only)
Web Viewer	Plug-in WebViewer Supported Browser : MS Explore 11, Apple Safari 9 (Mac OS X only)
ENVIRONMENTAL	
Operating Temperature / Humidity	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH
Ingress Protection / Vandal Resistance	IP66 / IK10
ELECTRICAL	
Input Voltage / Current	12V DC, PoE+
Power Consumption	Max. 21.6W (12V DC), Max. 25.5W (PoE+)
MECHANICAL	
Color / Material	Ivory / Aluminum
Dimensions (WxH)	Ø314 x 152mm (Ø12.36" x 5.98")
Weight	4.83kg (10.65 lb)

* The latest product information / specification can be found at hanwha-security.com
* Design and specifications are subject to change without notice.

HEAD OFFICE

6, Pangyo-ro 319beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, 463-400 Rep. of KOREA
Tel: +82.70.7147.8753 Fax: +82.31.8018.3740
<http://hanwha-security.com>

Hanwha Techwin America

500 Frank W. Burr Blvd. Suite 43 Teaneck, NJ 07666
Toll Free : +1.877.213.1222 Direct : +1.201.325.6920
Fax: +1.201.373.0124
www.hanwhasecurity.com

Hanwha Techwin Europe

Heriot House, Heriot Road, Chertsey, Surrey, KT16 9DT, United Kingdom
Tel: +44.1932.57.8100 Fax: +44.1932.57.8101
www.hanwha-security.eu

Hanwha Techwin Tianjin

No.11 Weiliu Rd., Micro-electronic Industrial Park,
Jingang Road Tianjin 300385, China
Tel: +86-22-2388-8402
www.hanwha-security.cn

Hanwha Techwin Middle East FZE

JAFZA View 18, 20th floor, office 2001, 2002, 2003, Downtown Jebel Ali,
Dubai, United Arab Emirates
<http://hanwha-security.com>