

PNM-9030V

15MP Multi-sensor Panoramic Camera

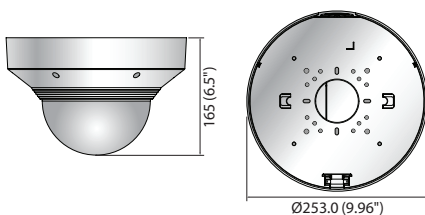


Key Features

- Max. 15M (6096x2540@180°, 7744x1936@220°) resolution
- 180°/220° panoramic stitching image
- Panoramic stitching, original, crop view channel support
- Max. 30fps at all resolutions (H.265/H.264)
- H.265, H.264, MJPEG codec, WiseStream II supported
- Tampering, Loitering, Directional detection, Virtual line, Enter / Exit, (Dis)Appear, Audio detection, Motion detection, Handover, Sound classification, Heatmap
- micro SD/SDHC/SDXC 2 slots, PoE+, IP66, IK10

Dimensions

Unit : mm (inch)



Accessories (Optional)



PNM-9030V
VIDEO

Imaging Device	1/2.8" 5M CMOS x 4CH
Total Pixels	2,704(H) x 2,104(V) 5.69M x 4CH
Effective Pixels	2,616(H) x 1,964(V) 5M x 4CH
Scanning System	Progressive scan
Min. Illumination	Color : 0.15lux (F2.0, 1/30sec, 30IRE) / B/W : 0.01lux (F2.0, 1/30sec, 30IRE)
Video Out	Micro USB Type B

LENS

Focal Length (Zoom Ratio)	4mm
Max. Aperture Ratio	F2.0
Angular Field of View	[180° mode] H : 180°, V : 70° / [220° mode] H : 220°, V : 52°
Min. Object Distance	3m (9.84ft)
Focus Control	Fixed
Mount Type	Board-in type (M12)

PAN / TILT / ROTATE

Pan / Tilt Range	355° / 60°
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OPERATIONAL

Camera Title	Off / On (Displayed up to 75 characters) - 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 / Schedule
Backlight Compensation	Off / BLC / WDR
Wide Dynamic Range	120dB
Contrast Enhancement	SSDR (Off / On)
Digital Noise Reduction	SSNR III (2D+3D noise filter) (Off / On)
LDC	Support
Motion Detection	Off / On (8ea, 8 point polygonal zones), Handover
Privacy Masking	Off / On (16ea, rectangle zones) - Color : Grey / Green / Red / Blue / Black / White - Mosaic
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Contrast	Level adjustment
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2 ~ 1 / 12,000sec)
Defog	Off / Manual / Auto
Digital PTZ	Support
Flip / Mirror	Off / On
Intelligent Video Analytics	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Heatmap
Alarm I / O	Input 1ea / Output 1ea
Audio In	Line in Supply voltage : 2.5VDC (4mA), Input impedance : approx. 2K Ohm
Audio out	Line out (3.5mm stereo mini jack)
Alarm Triggers	Alarm input, Motion detection, Video&Audio analytics, Network disconnect
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

NETWORK

Ethernet	RJ-45 (10/100/1000 BASE-T)
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Video Compression Format	H.265 : Main, H.264 : Main/Baseline/High, MJPEG
Resolution	[180° mode] 6096x2540, 5760x2400, 5472x2280, 5184x2160, 4800x2000, 4560x1900, 4096x1704, 3840x1600, 2688x1120, 2560x1064, 2048x852, 1920x800, 1280x532, 640x264 [220° mode] 7744x1936, 6096x1524, 5760x1440, 5472x1368, 5184x1296, 4800x1200, 4560x1140, 4096x1024, 3840x960, 2688x672x 2560x640, 2048x512, 1920x480, 1280x320, 640x160
Max. Framerate	H.265/H.264 : Max. 30fps at all resolutions MJPEG : Max. 15fps at under 2MP
Smart Codec	Manual mode (Area-based : 5ea)
WiseStream II	Support
Video Quality Adjustment	H.264/H.265/MJPEG : Target Bitrate Level Control
Bitrate Control Method	H.264/H.265 : CBR or VBR, Motion JPEG : VBR
Streaming Capability	Multiple Streaming (Up to 5 for panoramic and 3 profiles for original and crop CH)
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, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP
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
Edge Storage	Micro SD/SDHC/SDXC 2slot (up to 512GB) - Motion images recorded in the micro SD/SDHC/SDXC memory card can be downloaded. NAS(Network Attached Storage) Local PC for instant recording
Application Programming Interface	ONVIF Profile S/G SUNAPI(HTTP API)
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungary, Greek
Web Viewer	Supported OS : Windows 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Supported Browser : Google Chrome 63, MS Edge 41, Mozilla Firefox 57 (Windows 64bit only), Apple Safari 11 (Mac OS X only)
Central Management Software	Smart viewer, SSM
ENVIRONMENTAL	
Operating Temperature / Humidity	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH * Start up should be done at above -30°C
Storage Temperature / Humidity	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	IK10
ELECTRICAL	
Input Voltage / Current	PoE+(IEEE802.3at Class4), DC12V
Power Consumption	Max. 25.5W (PoE+), Max. 21.0W (DC12V)
MECHANICAL	
Color / Material	Ivory / Aluminum
Dimension (WxHxD)	Ø253 x H165mm (9.96" x 6.5")
Weight	3.2Kg (7.1lb)

* The latest product information / specification can be found at hanwha-security.com

* Design and specifications are subject to change without notice.

* Wisenet is the proprietary brand of **Hanwha Techwin**.