PNM-9020V

7.3M H.265 Panoramic 180˚ 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, WiseStream supported
- Hand over to PTZ, Tampering, Digital auto tracking
- Heatmap
- IP66, IK10

Accessories (Optional)



SBP-201HM



SBP-390WM2



SBP-300WM1



SBP-300WM



SBP-300NB



SBP-300KM



SBP-300CM



SBP-300LM



SBP-300PM



SBP-300B

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Video	
Imaging Device	1/2.8" 2MP CMOSx4
Effective Pixels	1945(H)x1109(V)x4
Min. Illumination	Color: 0.3Lux(F2.0, 1/30sec) B/W: 0.03Lux (F2.0, 1/30sec)
Lens	
Focal Length (Zoom Ratio)	3.6mm Fixed
Max. Aperture Ratio	F2.0
Angular Field of View	H: 180˚, V: 84˚
Min. Object Distance	1.5m(4.92ft)
Focus Control	Fixed
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0˚~355˚ / 0˚~60˚ / -
Operational	
Camera Title	Displayed up to 45 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC
Digital Noise Reduction	SSNRⅢ
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	16ea, polygonal zones - Color: Grey/Green/Red/Blue/Black/White
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/12,000sec)
Video Rotation	Flip, Mirror
Analytics	Defocus detection, Motion detection, Appear/Disappear, Enter/Exit, Tampering, Virtual line, Audio detection
Business Intelligence	Heatmap
Alarm I/O	Input 1ea / Output 1ea
Alarm Triggers	Analytics, Network disconnect, Alarm input
Alarm Events	File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC recording at event triggers Alarm output
Network	
Ethernet	RJ-45(10/100/1000BASE-T)
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Resolution	[Panorama] 4096x1800, 3584x1576, 3072x1352, 2560x1124, 2048x900, 1536x676, 1024x452, 512x224, 720x576 [Halfview] 2048x1536, 1600x1200, 1024x768, 800x600
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 15fps(60Hz/50Hz)

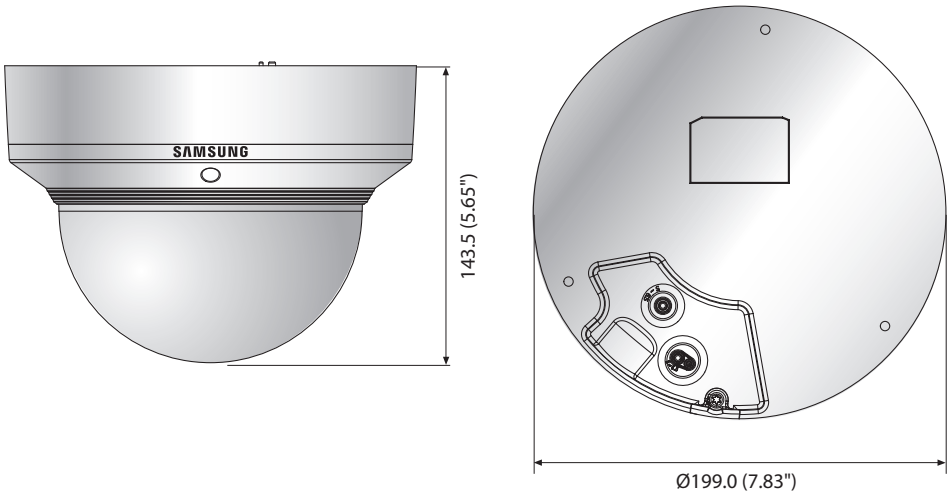
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Smart Codec	Manual(5ea area)
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(15 users) / Multicast Multiple streaming(Up to 10 profiles)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP)
Edge Storage	Micro SD/SDHC/SDXC 1slot 128GB
Application Programming Interface	ONVIF Profile S/G SUNAPI(HTTP API)
Web Viewer	Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only)
Memory	8GB RAM, 4GB Flash
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
Storage Temperature / Humidity	-40°C ~ +60°C(-40°F ~ +140°F) / Less than 90% RH
Certification	IP66, IK10
Electrical	
Input Voltage	PoE+(IEEE802.3at, Class4), 12VDC
Power Consumption	PoE+: Max 25.5W 12VDC: Max 21.0W
Mechanical	
Color / Material	Ivory / Aluminum
Product dimensions / weight	Ø199x143.5mm, 2025g

- The lastest 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 , formerly known as Samsung Techwin.

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