





QNF-C9010

12MP AI Fisheye Camera











Key Features

- 1/1.6" 12MP CMOS
- 1.76mm fixed stereo graphic type lens
- Color: 0.02Lux(F1.8, 1/30sec), BW: 0.001Lux(F1.8, 1/30sec)
- Digital Rotation
- Resolution/Framerate
- Original view: Max. 20fps@3008x3008
- Double panorama: Max. 20fps@3584x1792
- Single panorama: Max. 20fps@3584x896
- Quad view: Max. 20fps@3584x2688
- Q1/Q2/Q3/Q4(4:3): Max. 20fps@1792x1344
- Day & Night (ICR), WDR (120dB), WiseNR II (Using AI engine)
- H.265, H.264, MJPEG, WiseStreamIII (Using AI engine)
- Analytics events based on AI engine
- Object detection (Person/Vehicle)
- Color Attribute, BestShot
- Motion detection, Virtual line (Crossing/Direction),

Virtual area (Loitering/Intrusion/Enter/Exit)

• PoE: Max 7.3W

Compatible Devices













SBP-150CMI

SBP-300CMI

SBP-300CMW1

SBP-900CMW

SBP-300CMTW

SBP-300CMTS



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Specifications

Video		
Imaging Device	Size	1/1.6"
	Туре	CMOS
Resolution		512x384, 3584x2688, 3008x3008, 640x160, 1920x960, 1792x1344, 640x640, 1024x768 480x480, 800x800, 1920x480, 1280x320, 1920x1920, 2560x2560, 1280x640, 2048x1536, 640x320, 1024x512, 1504x1504, 768x576, 3584x896, 1280x1280, 3584x1792, 1024x256
Max. Framerate	H.265/H.264	20fps/20fps(60Hz/50Hz)
	MJPEG	5fps
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.02
	BW(1/30sec, 30IRE)	0.001
Video Out		USB: Micro USB Type B
Lens		
Focal Length (mm)		1.76
Max Aperture Ratio (F number)	Wide	F1.8
Angular Field of View	Horizontal	185°
	Vertical	185°
	Diagonal	185°
Min. Object Distance		0.5m(1.64ft)
Pan / Tilt / Rotate		
Pan / Tilt / Rotate Range	Others	Digital Rotation
Operational		
Day & Night		Auto(ICR)
Backlight Compensation		WDR, SSDR, BLC
Wide Dynamic Range (dB)		120
Digital Noise Reduction		WiseNR II (Based on AI engine), SSNR V
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones



Operational		
Privacy Masking	Quantity	32ea
	Shape	4point Quadrangle zones
Gain Control		Middle, High, Low
White Balance		Manual, Indoor, Outdoor, ATW, AWC
Electronic Shutter	Mode	Anti flicker, Maximum, Minimum
	Speed Range	1/5~1/12,000sec
Digital PTZ		Support
Video Rotation		Mirror, Flip
Alarm Triggers		Network disconnect, Analytics
Alarm Events When Alarm Trigger Occurred		Notification: e-mail, Handover: PTZ preset, send message by HTTP/HTTPS/TCP, Recording: SD/SDHC/SDXC or NAS recording at event triggers, MQTT: publication, File upload(image): e-mail/FTP/SFTP
Analytics		
Classified Object Type		Vehicle, Person
Attributes	Person	Upper/Lower clothes color
	Vehicle	Color
Thumbnail		BestShot
Analytics Events	Based on Al Engine	Object detection, Virtual line(Crossing/Direction), Motion detection, Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear)
	Normal	Tampering, Defocus detection
Business Intelligence	Based on Al Engine	Heatmap, People counting, Queue management
Network		
Ethernet		RJ-45(10/100BASE-T)
Video Compression		H.265/H.264: Main/High, MJPEG
Smart Codec		WiseStream(Based on Al engine), Manual
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 5 profiles
Protocol		NTP, TCP/IP, ARP, DHCP, RTP(UDP), HTTPS, FTP, RTCP, IPv6, UDP/IP, Bonjour, DNS, SNMPv1/v2c/v3(MIB-2), RTP(TCP), SSL/TLS, QoS, SMTP, DDNS, IGMP, HTTP, SFTP, UPnI CDP, LLDP, MQTT, RTSP, ICMP, SRTP(TCP, UDP Unicast), IPv4
Application	ONVIF	M, T, S, G
Programming Interface	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direct Cloud Connection		Support
Security		
OS / Firmware Protect		Signed firmware, Encrypted firmware, Secure boot

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com Hanwha Vision is formerly known as Hanwha Techwin.



Security		
User authentication		Prevent brute-force attack, Digest authentication
Network authentication		IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication		WSS(WebSocket Secure), SRTP, HTTPS
Access Control		IP-based access control
Data Protect		Encryption credentials
Audit		Access / System / Event Log management
Device ID		Device certificate(Hanwha Vision Root CA)
Secure Storage		SDcard partition encrypt(AES-256)
General		
Memory	RAM	2GB
	Flash	1GB
Edge Storage	Micro SD/SDHC/SDXC	Max. 256GB x 1slot
Environmental & El	ectrical	
Operating Condition	Temperature	-10°C~+40°C(+14°F~+104°F)
	Humidity	0~90% RH(non-condensing)
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Input Voltage		PoE(IEEE802.3af, Class3)
Power Consumption	PoE	Max 7.3W, typical 4.3W
Mechanical		
Color		White
Material		Aluminum
RAL Code		RAL9003
Product Dimensions		ø99x52mm(ø3.9x2.05")
Product Weight		360g(0.79lb)
Certifications & Sta	ndards	
EMC		RCM AS-NZS CISPR 32 Class A, KS C 9832 Class A, KS C 9835, CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, ICES-3(A)/NMB-3(A), VCCI CISPR 32 Class A, FCC 47 CFR 15 Subpart B Class A
Safety		IEC 62471, UL 62368-1, CAN/CSA C22.2 NO. 62368-1
Environment		IEC/EN 63000, IEC 60529 IP42
DORI (EN62676-4 s	standard)	
Detect (25PPM/8PPF)	Wide	36.9m(121.03ft)
Observe (63PPM/ 19PPF)	Wide	14.8m(48.42ft)
Recognize (125PPM/ 38PPF)	Wide	7.4m(24.21ft)

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DORI (EN62676-4 standard)				
Identify (250PPM/ 76PPF)	Wide	3.7m(12.10ft)		



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CAD Unit: mm [inch]

