





2MP IR Bullet Camera











Key Features

- Max. 2MP resolution
- Max. 30fps
- Color: 0.04Lux (F1.6, 1/30sec), BW: 0.004Lux (F1.6, 1/30sec, 30IRE)
- \bullet Focal length: 3.2~10.2mm motorized varifocal
- H.265, H.264, MJPEG codec supported
- Multiple streaming (up to 5 profiles)
- Day & Night (ICR), WDR (120dB)
- Micro SD/SDHC/SDXC 1 slot 256GB
- IP66, IK10
- PoE: Max 8.9W



2MP IR Bullet Camera







Specifications

Video	
Imaging Device	1/2.8" CMOS
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps(@2MP Max. 5fps)
Min. Illumination	Color: 0.04Lux (F1.6, 1/30sec) BW: 0.004Lux (F1.6, 1/30sec, 30IRE), OLux(IR LED on)
Video Out	USB: Micro USB Type B, 1280x720 for installation
Lens	
Focal Length (Zoom Ratio)	3.2~10.2mm(3.2x) motorized varifocal
Max. Aperture Ratio	F1.6(Wide)~F3.1(Tele)
Angular Field of View	H: 102.0°(Wide)~32.2°(Tele) V: 54.2°(Wide)~18.3°(Tele) D: 119.0°(Wide)~36.7°(Tele)
Min. Object Distance	1.2m (3.93ft)
Focus Control	Simple focus
Lens Type	DC auto iris(IR corrected)
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0°~360° / 0°~100° / 0°~360°
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR V , WiseNR II (Based on AI engine)
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	32ea, 4point quadrangle zones
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (1/5~1/25,000sec) prefer shutter control
Video Rotation	Flip, Mirror, Hallway view(90°/270°)



Attributes: Vehicle(Typecar/bus/truck/intoorcycle/bicycle) Support Detectionshot Analytics sevents based on Al engine - Motion detection*. Object detection Indeed on Alexandria - Motion detection*. To place detection a Turning of the Analytics sevents - Defocus detection a Turning virtual area (Appear/Disappear) - Some of the video analytics only works with people and vehicle detection Business Intelligence - Based on Al engine* People counting. Vehicle counting. Queue management. Heatmap - Alarm I/O - Input 1ea / Output 1ea - Alarm Triggers - Analytics, Network disconnect, Alarm input - Alarm Events - File uploadingage or course - File uploadingage - File uploadingage - File uploadinga		
Based on Al engine: People counting, Vehicle counting, Queue management, Heatmap Alarm I/O Input 1ea / Output 1ea Alarm Triggers Analytics, Network disconnect, Alarm input Alarm Events When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Recording; Sb/SbHC/SDXC or NAS recording at event triggers - National Physics Send message by HTTP/HTTPS/TCP) - Audio In - Selectable/mix in/line in) Audio 10 Line out, Max. output level: 0.5Vrms IR Viewable Length 40m(131.23ft) IR Wavelength 10ng-life 850 nm IR LED Network Ethernet RJ-45 (10/100BASE-T) Video Compression H.265/H.245-Wain/High, MJPEG Audio Compression H.265/H.246-Wain/High, MJPEG Audio Compression G.731 u-1 u-1 u-1 u-1 u-1 u-1 u-1 u-1 u-1 u-	Analytics	Attributes: Véhicle (Type:car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on Al engine - Motion detection*, Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Tampering, Virtual area(Appear/Disappear)
Alarm I/O Input 1ea / Output 1ea Alarm Triggers Analytics, Network disconnect, Alarm input Alarm Events When alarm trigger occurred - File upload(image): #-mail/FTP - Recording: \$9(\$S)EHC/SDXC or NAS recording at event triggers - Alarm output - Handower(PT2 preset, Send message by HTTP/HTTPS/TCP) - Audio (cip playback Audio In Selectable(mic in/line in) - Audio Out Line out, Max.output (eye): 0.5Vrms - IR Viewable Length 40m(131.23ft) - IR Wavelength 4		
Alarm Triggers Analytics, Network disconnect, Alarm input Alarm Events When alarm trigger occurred -File upload(image): =-mail/FTP -Notification := mail -Recording: SD/SDH/CSDXC or NAS recording at event triggers -Alarm output - Handower (FTZ preset. Send message by HTTP/HTTPS/TCP) -Audio In -Selectable (mic In/line in) Audio Out - Line out, Max. output level: 0.5Vrms IR Viewable Length - Admin 12.23ft) - IR Wavelength - In Jone 14.25ft - IR Wavelength - In Jone 15.25ft - IR Wavelength - In Jone 16.25ft - IR Wavelength - IR Wavelength - In Jone 16.25ft - IR Wavelength -	Business Intelligence	
Alarm Events When alarm trigger occurred - File upload(image): e-mail/FP - Notification: e-mail FP - Notification: e-mail	Alarm I/O	
File upload(image): e-mail/FTP Notification: e-mail Recording: SD/SDHC/SDXC on NAS recording at event triggers - Alarm output - Handover/PTZ preset, Send message by HTTP/HTTPS/TCP) - Audio (oil palpabach - Alarm output - Handover/PTZ preset, Send message by HTTP/HTTPS/TCP) - Audio Out - Line out, Max.output level: 0.5Vrms IR Viewable Length - 40m(131.23ft) IR Wavelength - long-life 850 nm IR LED Network Ethernet - RJ-45 (10/100BASE-T) - Video Compression - H.265/H.264: Main/High, MJPEG - Audio Compression - G.711 u-law /G.726 selectable - G.726 (ADPCM) BiNth, G.711 8KHz - G.726 i-Selectable - G.726 (ADPCM) BiNth, G.711 8KHz - G.726 i-Selectable - G.726 (ADPCM) BiNth, G.711 8KHz - G.726 i-Selectable - G.726 i-S	Alarm Triggers	Analytics, Network disconnect, Alarm input
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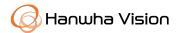
General

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.





Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD/SDHC/SDXC 1slot 256GB
Memory	2GB RAM, 1GB Flash
Environmental & Electrical	
Operating Temperature / Humidity	$-40^{\circ}\text{C} \times +55^{\circ}\text{C} (-40^{\circ}\text{F} \times +131^{\circ}\text{F}) \ / \ 0 \sim 95\% \ RH (non-condensing)$ Humidity control /w Air vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F ~ +140°F) / 0~95% RH
Certification	IP66, IK10
Input Voltage	PoE(IEEE802.3af, Class3)
Power Consumption	PoE: Max 8.9W, typical 3.7W
Mechanical	
Color / Material	White / Aluminum
RAL Code	RAL9003
Product Dimensions / Weight	ø93.4x245.8mm(ø3.68x9.68"), 930g(2.05 lb)
Compatible Conduit hole / Gangbox	Conduit hole: None Gangbox (SBO-090GP): Single, Double, 4" Octagon (sold separately)
Backbox	SBO-140BW
Certifications & Standards	
EMC	FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3 VCCI CISPR 32 Class A RCM AS/NZS CISPR 32 Class A
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471
Environment	IEC/EN 63000 IEC/EN 60529 IP66, IEC/EN 62262 IK10
DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	Wide: 30.5m(100.03ft) / Tele: 133m(436.48ft)
Observe (63PPM/ 19PPF)	Wide: 12.2m(40.01ft) / Tele: 53.21m(174.59ft)
Recognize (125PPM/ 38PPF)	Wide: 6.1m(20.01ft) / Tele: 26.6m(87.29ft)
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2MP IR Bullet Camera







CAD Unit:mm [inch]

