

HIKVISIO

AI-SCB746/P 4 MP ANPR IR Varifocal Bullet Network Camera



Hikvision has been dedicated to develop products with security since established. Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 4 MP resolution
- Excellent low-light performance via DarkFighter technology
- Clear imaging against strong back light due to 140 dB WDR technology
- License Plate Recognition
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67) and vandal proof (IK10)



Function

Perimeter Protection

With embedded deep learning based target detection and classification algorithms, the camera carries out the duty of perimeter protection, monitoring the actions of line crossing, intrusion, region entrance, and region exiting. The algorithms greatly filter out the mistaken alarm caused by the interference of leafs, lights, animal, flag, etc. Road Traffic and Vehicle Detection

With embedded deep learning based license plate capture and recognition algorithms, the camera alone can achieve plate capture and recognition. The algorithm enjoys the high recognition accuracy of common plates and complex-structured plates, which is a great step forward comparing to traditional algorithms. Blocklist and allowlist are available for plate categorization and separate alarm triggering.

Parking Management

With embedded deep learning algorithms, the camera can achieve parking space status detection and vacant parking space alarm for parking management. Both distant view mode and close view mode are supported. For the close view mode, the camera can also achieve license plate recognition. Blocklist and allowlist are available for plate categorization and separate alarm triggering.



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Specification

Camera						
Image Sensor	1/1.8" Progressive Scan CMOS					
Max. Resolution	2688 × 1520					
	Color: 0.0005 Lux @ (F1.2, AGC ON);					
Min. Illumination	B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR					
Shutter Time	1 s to 1/100,000 s					
	IR cut filter					
Day & Night	Blue glass module to reduce ghost phenomenon					
Lens						
	2.8 to 12 mm, horizontal FOV: 114.5° to 41.8°, vertical FOV: 59.3° to 23.6°, diagonal					
Food Longth & FOV	FOV: 141.1° to 48°					
Focal Length & FOV	8 to 32 mm, horizontal FOV: 42.5° to 15.1°, vertical FOV: 23.3° to 8.64°, diagonal FOV:					
	49.6° to 17.3°					
Focus	Auto,Semi-auto,Manual					
Iris Type	P-iris					
Aporturo	2.8 to 12 mm: F1.2 to F2.5					
Aperture	8 to 32 mm: F1.7 to F1.73					
DORI						
	Wide:					
	2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify):					
	6 m					
	8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I					
DODI	(Identify): 15 m					
DORI	Tele:					
	2.8 to 12 mm: D (Detect): 149 m, O (Observe): 59.1 m, R (Recognize): 29.8 m, I					
	(Identify): 14.9 m					
	8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify):					
	40 m					
Illuminator						
Supplement Light Type	IR					
Supplement Light Range	2.8 to 12 mm: 50 m					
Supplement Light Range	8 to 32 mm: 100 m					
Smart Supplement Light	Yes					
IR Wavelength	850 nm					
Video						
Main Stream	50 Hz:					
	25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)					
	50 fps (2560 × 1440, 1920 × 1080, 1280 × 720)					
	60 Hz:					
	30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)					
	60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)					
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480)					
	60 Hz: 30 fps (704 × 480, 640 × 480)					
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)					
	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)					



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	50 Hz: 25 fps (704 × 576, 640 × 480)						
Fourth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)						
	50 Hz: 25 fps (704 × 576, 640 × 480)						
Fifth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)						
	Main stream: H.265+/H.265/H.264+/H.264,						
	Sub-stream: H.265/H.264/MJPEG,						
Video Compression	Third stream: H.265/H.264,						
	Fourth stream: H.265/H.264/MJPEG,						
	Fifth stream: H.265/H.264/MJPEG						
Video Bit Rate	32 Kbps to 8 Mbps						
Н.264 Туре	Baseline Profile, Main Profile, High Profile						
Н.265 Туре	Main Profile						
Bit Rate Control	CBR,VBR						
Scalable Video Coding (SVC)	H.264 and H.265 encoding						
Region of Interest (ROI)	4 fixed regions for each stream						
Target Cropping	Yes						
e-PTZ	Support Patrol and Auto Tracking settings						
Audio							
Audio Type	Mono sound						
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC						
-	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps						
Audio Bit Rate	(MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)						
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz						
Environment Noise Filtering	Yes						
Network							
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,						
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS,						
	WebSocket, WebSockets						
Simultaneous Live View	Up to 20 channels						
API	Open Network Video Interface (Profile S, Profile G, Profile T, Profile M),ISAPI,SDK,ISUP						
	Up to 32 users						
User/Host	3 user levels: administrator, operator, and user						
	Password protection, complicated password, HTTPS encryption, 802.1X authentication						
	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest						
Security	authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network						
	Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log,						
	TLS 1.2, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2), AES128/256						
	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR),						
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health						
-	detection are supported.						
Client	iVMS-4200,Hik-Connect,Hik-Central						
	Plug-in required live view: IE 10, IE 11,						
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+,						
	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+						
Image	,,						
Image Parameters Switch	Yes						



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Image Settingsby client software or web browserDay/Night SwitchDay,Night,Auto,Schedule,Alarm Trigger,Video TriggerWide Dynamic Range (WDR)140 dBSNR≥ 52 dBImage EnhancementBLC,HLC,3D DNR,Distortion Correction,DefogPicture OverlayLOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.Image StabilizationEISPrivacy Mask8 programmable polygon privacy masksInterface1 Np-p Composite Output (75 Ω/CVBS) (Only for debugging)Ethernet Interface1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet portOn-Board StorageBuilt-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1AudioWith -Y: 1 input (line in), 1 output (line out), 3.5 mm connectorAlarm2 inputs, 2 outputs (max. 24 VDC, 1 A)Rs-485With -Y: 1 XP-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)Reset KeyYesPower OutputWith -Y: 1 2 VDC, max. 100 mAWiegand-Y: 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72bit)EventMotion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception (network disconnected, IP address con illegal login, abnormal restart, HDD full, HDD error),video quality diagnosis,vibra detectionSmart Eventscene change detection,audio exception detection,defocus detection							
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Wide Dynamic Range (WDR) 140 dB SNR ≥ 52 dB Image Enhancement BLC,HLC,3D DNR,Distortion Correction,Defog Picture Overlay LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format. Image Stabilization EIS Privacy Mask 8 programmable polygon privacy masks Interface 1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging) Ethernet Interface 1 R145 10 M/100 M/1000 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 12 Addio Audio With -Y: 1 input (line in), 1 output (line out), 3.5 mm connector Alarm 2 inputs, 2 outputs (max. 24 VDC, 1 A) RS-485 With -Y: 1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive) Reset Key Yes Power Output With -Y: 1 VDC, max. 100 mA Wiegand -Y: 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72bit) Event Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception (network disconnected, IP address co illegal login, abnormal restart, HDD full, HDD error), video quality diagnosis, vibra detection Smart Event scene change detection,audio exception detection,defocus detection Lin		by client software or web browser					
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Basic Event illegal login, abnormal restart, HDD full, HDD error),video quality diagnosis,vibrated detection Smart Event scene change detection,audio exception detection,defocus detection Linkage Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger all output,trigger recording,trigger capture,audible warning Deep Learning Function Line crossing, intrusion, region entrance, region exiting		Motion detection (support alarm triggering by specified target types (human and					
illegal login, abnormal restart, HDD full, HDD error),video quality diagnosis,vibration detection Smart Event scene change detection,audio exception detection,defocus detection Linkage Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger all output,trigger recording,trigger capture,audible warning Deep Learning Function Line crossing, intrusion, region entrance, region exiting	Pasic Event	vehicle)), video tampering alarm, exception (network disconnected, IP address conflict,					
Smart Event scene change detection,audio exception detection,defocus detection Linkage Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger al output,trigger recording,trigger capture,audible warning Deep Learning Function Line crossing, intrusion, region entrance, region exiting	Dasic Event	illegal login, abnormal restart, HDD full, HDD error), video quality diagnosis, vibration					
Linkage Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger al output, trigger recording, trigger capture, audible warning Deep Learning Function Line crossing, intrusion, region entrance, region exiting		detection					
Linkage output,trigger recording,trigger capture,audible warning Deep Learning Function Line crossing, intrusion, region entrance, region exiting	Smart Event	scene change detection, audio exception detection, defocus detection					
Deep Learning Function Line crossing, intrusion, region entrance, region exiting	Linkaga	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm					
Line crossing, intrusion, region entrance, region exiting	LIIIKage	output, trigger recording, trigger capture, audible warning					
	Deep Learning Function						
Perimeter Protection Support alarm triggering by specified target types (human and vehicle)		Line crossing, intrusion, region entrance, region exiting					
	Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)					
Support combined event alarm triggering		Support combined event alarm triggering					



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Smart Function:			
Support license plate recognition of vehicles and motorcycles (only in checkpoint			
scenario)			
Support vehicle attribute detection, including vehicle type, color, brand, driving			
direction, etc.			
Support vehicle and non-vehicle counting			
Blocklist and allowlist: up to 10,000 records			
LPR Countries/Regions:			
4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions			
Accuracy (Under recommended installation and lighting conditions):			
License plate recognition rate ≥98%			
Capture rate ≥99%			
Driving direction accuracy rate ≥98%			
Vehicle Capture Speed:			
Front installation in checkpoint scenario: up to 120 km/h			
Side installation: up to 80 km/h			
Capture Mode: License Plate and Vehicle Mode, Vehicle Priority Mode			
Intrusion detection, line crossing detection, region entrance detection, region exiting			
detection,road traffic			
Support distant view mode and close view mode			
Distant view mode: support status detection on up to 40 parking spaces, parking			
duration detection, and vacant parking space alarm			
Close view mode: support status detection on up to 4 parking spaces, license plate			
recognition, parking timeout alarm, and vacant parking space alarm			
12 VDC ± 20%, 1.19 A, max. 14.28 W, three-core terminal block			
PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.396 A to 0. 295 A, max. 16.8 W			
Aluminum alloy body			
Without -Y: Ø144 mm × 347 mm (Ø5.7" × 13.7")			
With -Y: Ø140 mm × 351 mm (Ø5.5" × 13.8")			
405 mm × 190 mm × 180 mm (15.9" × 7.5" × 7.1")			
Approx. 1950 g (4.2 lb.)			
Approx. 3070 g (6.7 lb.)			
-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)			
-50 C to 60 C (-22 F to 140 F). Humaity 55% of less (non-condensing)			
-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)			
33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,			
Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,			
Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,			
• • • • • • • • • • • • • • • • • • •			
Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian			
Anti-banding, heartbeat, mirror, flash log, password reset via email, pixel counter			
Yes			
Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6			



Approval	
EMC	FCC: 47 CFR Part 15, Subpart B,
	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN
	50130-4: 2011 +A1: 2014,
	RCM: AS/NZS CISPR 32: 2015,
	IC: ICES-003: Issue 7,
	KC: KN32: 2015, KN35: 2015
	UL: UL 62368-1,
	CB: IEC 62368-1: 2014+A11,
Safety	CE-LVD: EN 62368-1: 2014/A11: 2017,
	BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005,
	LOA: IEC/EN 60950-1
	CE-RoHS: 2011/65/EU,
Environment	WEEE: 2012/19/EU,
	Reach: Regulation (EC) No 1907/2006
Protection	IP67: IEC 60529-2013,IK10: IEC 62262:2002
Anti-Corrosion Protection	-Y: NEMA 4X (NEMA 250-2018)
Automotive and Railway	EN50121-4
Other	PVC FREE

Typical Application

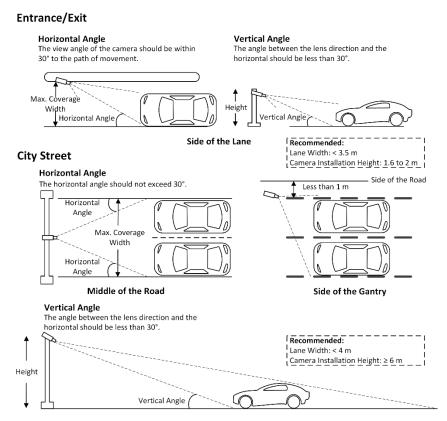
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

With -Y model: This model has MODERATE PROTECTION. Without -Y model: This model has NO SPECIFIC PROTECTION.

Level	Description			
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.			
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.			
No specific protection	Hikvision products at this level are equipped for use in area where no specific anti-corrosion protection is needed.			



Installation Recommendation



Camera Position	Lens	Height (m)	Suggested Vertical Angle	Suggested Trigger Distance (m)	Max. Coverage Width	Max. Horizontal Angle	Vertical Angle Range	Capture Range (m)
Side of the Lane	2.8 to 12 mm	1.5	20°	4	4.5	30°	15° to 30°	2.5 to 5.5
Side of the Lane	2.8 to 12 mm	2	20°	5.5	4.5	30°	15° to 30°	3.5 to 7.5
Side of the Lane	2.8 to 12 mm	2.5	20°	6.5	4.5	30°	15° to 30°	4.5 to 9
Side of the Lane	8 to 32 mm	3	20°	8	6	30°	15° to 30°	5 to 11
Side of the Lane	8 to 32 mm	4	20°	11	6	30°	15° to 30°	6 to 14
Side of the Lane	8 to 32 mm	5	20°	13.5	6	30°	15° to 30°	8.5 to 18
Side of the Lane	8 to 32 mm	6	20°	16.5	6	30°	15° to 30°	10 to 22
Middle of the Road	8 to 32 mm	3	20°	8	12	30°	15° to 30°	5 to 11
Middle of the Road	8 to 32 mm	4	20°	11	12	30°	15° to 30°	6 to 14
Middle of the Road	8 to 32 mm	5	20°	13.5	12	30°	15° to 30°	8.5 to 18
Middle of the Road	8 to 32 mm	6	20°	16.5	12	30°	15° to 30°	10 to 22

*Note: The installation diagram is for reference only. The actual scenario and appearance may vary.

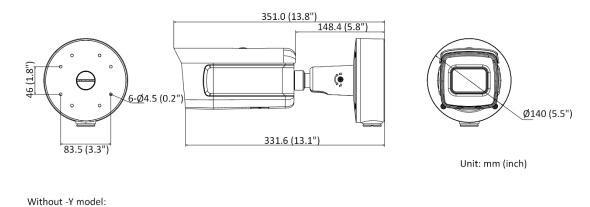


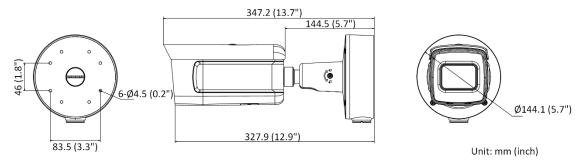
Available Model

AI-SCB746/P

Dimension

With -Y model:







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