

### 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 defense 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.

# Specification

Image Sensor	Camera					
Min. Illumination	Image Sensor	1/1.8" Progressive Scan CMOS				
Min.   Illumination   B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR	Max. Resolution					
Sp. Wi. 0.0001 Lux @ (Fi.1.2, AGC ON), 0 Lux with IR	AA: 111 · .:	Color: 0.0005 Lux @ (F1.2, AGC ON);				
Day & Night   Blue glass module to reduce ghost phenomenon	Min. Illumination					
Day & Night         Blue glass module to reduce ghost phenomenon           Lens           Focal Length & FOV: 141.1* to 48*	Shutter Time	- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '				
Lens           2.8 to 12 mm, horizontal FOV: 114.5" to 41.8", vertical FOV: 59.3" to 23.6", diagonal FOV: 49.6" to 17.3"           Focal Length & FOV         2.8 to 12 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           Aperture         2.8 to 12 mm: F1.7 to F2.5           8 to 32 mm: F1.7 to F1.73         8 to 32 mm: F1.7 to F1.73           DORI           Wide: 2.8 to 12 mm: D: 60 m, O: 23.8 m, R: 12 m, I: 6 m           8 to 32 mm: 150.3 m, O: 59.7 m, R: 30.1 m, I: 15 m           Tele: 2.8 to 12 mm: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m           8 to 32 mm: D: 400 m, O: 158.7 m, R: 80 m, I: 40 m           Illuminator           Supplement Light Type           IR         2.8 to 12 mm: 50 m           8 to 32 mm: 100 m         8 to 32 mm: 100 m           Smart Supplement Light         Yes           IR Wavelength         850 mm           Video         25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)           60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)         60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)           60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)         60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)           60 fps	Day 0 Milakt	IR cut filter				
Process	Day & Night	Blue glass module to reduce ghost phenomenon				
FOX: 141.1* to 48*   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*	Lens					
St o 32 mm, horizontal FOV: 42.5° to 15.1°, vertical FOV: 23.3° to 8.64°, diagonal FOV: 49.6° to 17.3°		2.8 to 12 mm, horizontal FOV: 114.5° to 41.8°, vertical FOV: 59.3° to 23.6°, diagonal				
# 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  Aperture 2.8 to 12 mm: F1.2 to F2.5  8 to 32 mm: F1.7 to F1.73  **DORI***  **Wide:	Focal Longth & FOV	FOV: 141.1° to 48°				
Focus         Auto, Semi-auto, Manual           Iris Type         P-iris           Aperture         2.8 to 12 mm: F1.2 to F2.5 8 to 32 mm: F1.7 to F1.73           DORI         Wide:	Focal Length & FOV	8 to 32 mm, horizontal FOV: 42.5° to 15.1°, vertical FOV: 23.3° to 8.64°, diagonal FOV:				
Iris Type         P-iris           Aperture         2.8 to 12 mm: F1.2 to F2.5 s to 32 mm: F1.7 to F1.73           DORI           Wide:		_				
Aperture 2.8 to 12 mm: F1.2 to F2.5 8 to 32 mm: F1.7 to F1.73  DORI  Wide: 2.8 to 12 mm: D: 60 m, O: 23.8 m, R: 12 m, I: 6 m 8 to 32 mm: 150.3 m, O: 59.7 m, R: 30.1 m, I: 15 m Tele: 2.8 to 12 mm: D: 400 m, O: 158.7 m, R: 29.8 m, I: 14.9 m 8 to 32 mm: D: 400 m, O: 158.7 m, R: 80 m, I: 40 m  Illuminator  Supplement Light Type IR 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) 60 fps (2560 × 1440, 1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 640 × 480) 60 fbr: 30 fps (704 × 576, 64	Focus	Auto, Semi-auto, Manual				
Aperture         8 to 32 mm; F1.7 to F1.73           DORI           Wide:             2.8 to 12 mm; D: 60 m, O: 23.8 m, R: 12 m, I: 6 m           8 to 32 mm; D: 60 m, O: 59.7 m, R: 30.1 m, I: 15 m           Tele:             2.8 to 12 mm; D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m           8 to 32 mm; D: 400 m, O: 158.7 m, R: 80 m, I: 40 m           Illuminator           Supplement Light Type         IR           Supplement Light Range         2.8 to 12 mm; 50 m           8 to 32 mm; 100 m           Smart Supplement Light         Yes           IR Wavelength         850 m           Video           Video           Wais Supplement Light Proposition (Supplement	Iris Type	P-iris				
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DORI    Wide:	Aperture	8 to 32 mm: F1.7 to F1.73				
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Video         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)         50 Hz: 25 fps (704 × 576, 640 × 480)         60 Hz: 30 fps (704 × 480, 640 × 480)         60 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)         Fourth Stream         50 Hz: 25 fps (704 × 576, 640 × 480)         60 Hz: 30 fps (704 × 480, 640 × 480)         50 Hz: 25 fps (704 × 576, 640 × 480)         50 Hz: 25 fps (704 × 576, 640 × 480)	Smart Supplement Light	Yes				
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Main Stream       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)         Fourth Stream       50 Hz: 25 fps (704 × 576, 640 × 480)         Fifth Stream       50 Hz: 25 fps (704 × 576, 640 × 480)		50 Hz:				
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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)         Fourth Stream       50 Hz: 25 fps (704 × 576, 640 × 480)         Fifth Stream       50 Hz: 25 fps (704 × 576, 640 × 480)		30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)				
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Fourth Stream 60 Hz: 30 fps (704 × 480, 640 × 480)  50 Hz: 25 fps (704 × 576, 640 × 480)  Fifth Stream		60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)				
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Fifth Stream		60 Hz: 30 fps (704 × 480, 640 × 480)				
60 Hz: 30 fns (70.4 × 48.0 64.0 × 48.0)	Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)				
00 112. 30 1p3 (704 ^ 400)		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,			
video compression	Fourth stream: H.265/H.264/MJPEG,			
	Fifth stream: H.265/H.264/MJPEG			
Video Bit Rate				
	32 Kbps to 8 Mbps			
H.264 Type	Baseline Profile, Main Profile, High Profile			
H.265 Type	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			
Audio				
Audio Type	Mono sound			
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC			
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps			
Addio bit Nate	(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, 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), 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			
	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			
Cheffe	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+,			
Web blowser	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+			
Imaga	Local Service. Cilionie 37.0+, Filelox 32.0+, Euge 85+			
Image Parameters Switch	Voc			
Image Parameters Switch	Yes			
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance,			
Day/Night Costa-la	adjustable by client software or web browser			
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger			
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					
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)				
Ethernet Interface	1 RJ45 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 1 TB				
Audio	With -Y: 1 input (line in), 1 output (line out), 3.5 mm connector				
Alarm	2 input, 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: 12 VDC, max. 100 mA				
Wiegand	-Y: 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72bit)				
Event					
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception (network disconnected, IP address conflict, 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 alarm				
Lilikage	output, trigger recording, trigger capture, audible warning				
Deep Learning Function					
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)				
Blocklist and allowlist: up to 10,000 records  Support license plate recognition of motorcycles (only in checkpoint scenar Support vehicle attribute detection, including vehicle type, color, brand, et Street mode is recommended.)  License plate recognition rate ≥98%					
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection, road traffic				
Parking Management	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				
General					
Power	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				
Material	Aluminum alloy body				
Dimension	Without -Y: Ø144 × 347 mm (Ø5.7" × 13.7") With -Y: Ø140 × 351 mm (Ø5.5" × 13.8")				
Package Dimension	405 × 190 × 180 mm (15.9" × 7.5" × 7.1")				
Weight	Approx. 1950 g (4.2 lb.)				
With Package Weight	Approx. 3070 g (6.7 lb.)				

Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)				
Startup and Operating Conditions	-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				
Language	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish				
Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,				
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian				
Camanal Franction	Anti-banding, 5 streams, EPTZ, heartbeat, mirror, flash log, password reset via email,				
General Function	pixel counter				
Approval					
	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				
ENAC	50130-4: 2011 +A1: 2014,				
EMC	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				
Environment	CE-RoHS: 2011/65/EU,				
	WEEE: 2012/19/EU,				
	Reach: Regulation (EC) No 1907/2006				
Protection	IK10: IEC 62262:2002, IP67: IEC 60529-2013				
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.

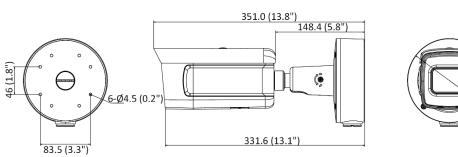
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti- corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped 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 areas where no specific anti- corrosion protection is needed.

### Available Model

CAMLAPI(2.8-12mm)(C)
CAMLAPI832(8-32mm)(C)

## Dimension

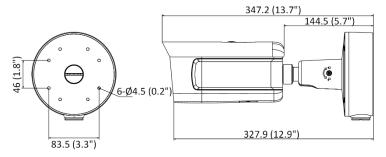
With -Y model:

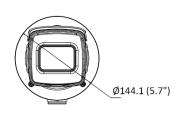


Unit: mm (inch)

Ø140 (5.5")







Unit: mm (inch)

## Accessory

## Optional

Vertical Pole Mount	Corner Mount	Vertical Pole Mount	Corner Mount	Pendant Mount
Ann	lij	āno		

