

VNE-DS-CD746GI-HZ 4MP DeepinView Moto Varifocal Bullet Camera

DeepinView















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 2.0 technology
- Clear imaging against strong back light due to 150 dB AWDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67), vandal proof (IK10) and corrosion resistant (NEMA 4X, optional)
- Capture vehicles and humans of different speed clearly via ShotN technology
- High frame rate, up to 2MP@120fps and 4MP@60fps
- Built-in heater to ensure clear image under rainy or snowy weather
- Built-in Gyro sensor for GIS and vibration detection
- Built-in power meter for historical power statistics



Function

Face Capture

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, capturing, grading and selecting. The camera uses face exposure function to dynamically adjust face area exposure of captures and ensures high face picture quality.

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.

Multi-Target-Type Detection

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.

Queue Management

With embedded deep learning based algorithms, the camera detects queuing-up people number and waiting time of each person. It can generate reports to compare the efficiency of different queuing-ups and display the changing status of one queue, and supports raw data export for further analysis.

Regional People Counting

With the embedded deep learning algorithms, the camera supports people density detection and will upload detection data through scheduled uploading, number of people change uploading and congestion level uploading. It also supports number of people exception detection and waiting time exception detection.

On/Off Duty Detection

With the embedded deep learning algorithms, the camera supports absence detection and on/off duty detection. It can detect the on/off duty status and people number changes in a predefined area.

Heat Map

The camera can generate a graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area.

Multi-Dimension People Counting

With the embedded deep learning algorithms, the camera integrates multiple intelligences. It counts persons and compares them with the built-in face picture library to remove duplicates. It counts persons and reports an alarm simultaneously to achieve both the entrance control and people counting.

Hard Hat Detection

With the embedded deep learning algorithms, the camera detects the persons in the specified region. It detects whether the person is wearing a hard hat, and reports an alarm if not.



Specification

Camera				
Image Sensor	1/1.8" Progressive Scan RGB			
Max. Resolution	2688 × 1520			
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON),B/W: 0.0001 Lux @ (F1.2, AGC ON),B/W: 0 Lux with IR			
Shutter Time	1 s to 1/100,000 s			
Day & Night	IR cut filter, Blue glass module (less ghost phenomenon)			
Lens	Side Blass module (i.ess ghost phenomenon)			
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 106° to 41.8°, vertical FOV 55.4° to 23.6°, diagonal FOV 130° to 48.1° 8 to 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3° 6 to 132 mm, horizontal FOV 59.5° to 3.7°, vertical FOV 35.9° to 2.1°, diagonal FOV			
	66.5° to 4.3°			
Focus	Auto,Semi-auto,Manual			
Iris Type	P-iris P-iris			
Aperture	2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73, 6 to 132 mm: F1.6 to F4.1			
DORI				
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 (Identify): 15 m 6 to 132 mm: D (Detect): 93.8 m, O (Observe): 37.2 m, R (Recognize): 18.8 m, I (Identify): 9.4 m Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 m 6 to 132 mm: D (Detect): 1655.2 m, O (Observe): 656.8 m, R (Recognize): 331.0 m, I (Identify): 165.5 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.			
Illuminator				
Supplement Light Type	IR			
Supplement Light Range	2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m; 6 to 132 mm: Monitoring: 200 m			
Smart Supplement Light	Yes			
IR Wavelength	850 nm			
Al Open Platform				
Model Specification	Up to 4 models, Model type: detection model, classification model, mixed model (detection model and classification model)			



60 Hz: up to 60 fps (2688 × 1520, 1280 × 720), up to 120 fps (1920 × 1080	၁)		
60 Hz: up to 60 fps (2688 × 1520, 1280 × 720), up to 120 fps (1920 × 1080	0)		
	50 Hz: up to 50 fps (2688 × 1520, 1280 × 720), up to 100 fps (1920 × 1080)		
Main Chrone	60 Hz: up to 60 fps (2688 × 1520, 1280 × 720), up to 120 fps (1920 × 1080)		
Main Stream *High frame rate is supported under monitoring mode only.	*High frame rate is supported under monitoring mode only.		
smart mode:	smart mode:		
50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)			
60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)			
50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480)			
Sub-Stream 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)			
50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)			
Third Stream 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
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			
H.264 Type Baseline Profile, Main Profile, High Profile			
H.265 Type Main Profile	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			
Audio Bit Rate 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 t	o 192 Kbps		
(MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)			
Audio Sampling Rate 8 kHz/16 kHz/32 kHz/48 kHz			
Environment Noise Filtering Yes			
Network			
TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, SRTP, RTP, RTS	SP, RTCP,		
Protocols PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bo	njour,		
SSL/TLS, ARP, WebSocket, WebSockets			
Simultaneous Live View Up to 20 channels			
	ISAPI,SDK,ISUP,OTAP,ONVIF (Profile S, Profile G, Profile T, Profile M)		
API ISAPI,SDK,ISUP,OTAP,ONVIF (Profile S, Profile G, Profile T, Profile M)			
API ISAPI,SDK,ISUP,OTAP,ONVIF (Profile S, Profile G, Profile T, Profile M) Up to 32 users			



	Password protection, complicated password, HTTPS encryption, 802.1X authentication			
Security	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest			
	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+			
Mobile Communication				
Standard	-5G: 5G NR/LTE-FDD/LTE-TDD			
	-5G:			
Frequency	5G NR: n41/n77/n78/n79			
. ,	LTE-FDD: B1/B3/B5/B8			
	LTE-TDD: B38/39/B40/B41			
SIM Card Type	-5G: Micro SIM			
Image				
Image Parameters Switch	Yes			
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable			
80	by client software or web browser			
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger			
Wide Dynamic Range (WDR)	150 dB			
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog			
SNR	≥ 52 dB			
Privacy Mask	8 programmable polygon privacy masks			
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.			
Image Stabilization	EIS			
Interface				
Video Output	1 Vp-p Composite Output (75 Ω /CVBS) (Only for debugging)			
Ethernet Interface	RJ-45 10BASE-T/100BASE-TX/1000BASE-T M self-adaptive Ethernet port			
On Decod Steres	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB,			
On-Board Storage	-(1T): Built-in 1 TB SSD storage (1 TB device model supports)			
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)			
Audio	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,			
	input impedance: 4.7 KΩ, interface type: non-equilibrium,			
	1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp			
	output impedance: 100 Ω , interface type: non-equilibrium, mono sound			
RS-485	-Y: 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)			
Reset Key	Yes			
Power Output	-Y: 12 VDC, max. 100 mA			



Event			
	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, video quality diagnosis, exception (network		
Basic Event	disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD		
	error), vibration detection		
Smart Event	scene change detection, audio exception detection, defocus detection		
Siliait Evelit	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm		
Linkage	output,trigger recording,trigger capture,audible warning		
Deep Learning Function	output,trigger recording,trigger capture,audible warning		
Deep Learning Function	Supports simultaneous detection and capture of human body, face, and vehicle,		
	Gets 7 face features,		
NAVINI toward toward Datastics	Gets 13 human body features,		
Multi-target-type Detection	Gets 2 vehicle features,		
	Supports counting the number of line crossing targets by type, including human body,		
	non-motor vehicle, motor vehicle,		
	Supports dynamic mosaic mask		
	Detects up to 120 faces simultaneously, captures up to 40 face pictures per frame		
	simultaneously and uploads up to 10 face pictures per second,		
	Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°,		
Face Capture	Uploads face with background and closed-up face pictures,		
	Supports best shot and quick shot for capture mode,		
	Supports dynamic mosaic mask,		
	Gets 7 face features		
Face Comparison	Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total,		
	Supports face library encryption		
	Supports Multi-Dimension People Counting,		
	Supports counting, displaying and exporting the people flow data of entering, exiting		
	and passing by (The data is stored in the flash.),		
	Supports real-time uploading and uploading by statistic cycle,		
People Counting	Supports generating daily, weekly, monthly or annually reports,		
reopie Counting	Supports dynamic deduplication based on face picture comparison, and can filter out		
	the target with the same custom face pictures, same attributes, or filter out repeated		
	invalid targets within the set time interval,		
	Supports face feature deduplication,		
	Supports people flow data replenishment		
Queue Management	Supports up to 8 detection regions, and independent arming schedule and linkage		
	method		
	Supports 2 detection modes: regional people queuing-up, waiting time detection		
	Generates reports to compare the efficiency of different queuing-ups and display the		
	changing status of one queue		
	Supports raw data export for further analysis		
	Supports real-time data uploading and scheduled data uploading		
	Regional people queuing-up: supports 4 alarm trigger conditions, including greater		
	than threshold, less than threshold, equal to threshold, not equal to threshold		
	Waiting time detection: supports 1 alarm trigger condition, including greater than		
	threshold		



	A graphic description of visits (by calculating amount of people or amount of dwell	
Heat Map	time) in a configured area.,	
	Two report types are available, space heat map and time heat map line chart.	
	Line crossing, intrusion, region entrance, region exiting	
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)	
	Support combined event alarm triggering	
	Detects up to 30 human targets simultaneously	
Hard Hat Detection	Supports up to 4 shield regions	
	Intrusion detection, line crossing detection, region entrance detection, region exiting	
Metadata	detection, face capture, multi-target-type detection	
	Supports up to 8 detection regions, and independent arming schedule and linkage	
	method	
	Supports 3 detection modes: people density detection, number of people exception	
	detection, waiting time exception detection	
	Supports parameter settings: alarm times per exception, alarm interval, first alarm	
	delay	
	Supports searching real-time number of people	
Regional People Counting	People density detection: supports scheduled uploading, number of people change uploading, congestion level uploading	
	Number of people exception detection: supports 6 alarm trigger conditions, including	
	greater than threshold A, less than threshold A, equal to threshold A, not equal to	
	threshold A, greater than threshold A and less than threshold B, less than threshold A	
	or greater than threshold B (threshold A should be less than threshold B)	
	Waiting time exception detection: supports 3 alarm trigger conditions, including	
	greater than threshold A, less than threshold A, greater than threshold A and less than	
	threshold B (threshold A should be less than threshold B)	
	Supports up to 8 detection regions, and independent arming schedule and linkage	
On/Off Duty Detection	method	
, ,	Supports 2 detection modes: absence detection, on/off duty detection	
	Supports parameter settings: person on duty, absence duration	
General		
	-5G:	
	three-core terminal block,	
	12 VDC ± 20%, 1.88 A, max. 22.56 W,	
	24 VAC ± 20%, 1.57 A, max. 21.5 W,	
	6-132mm:	
	two-core terminal block,	
Power	12 VDC ± 20%, 1.88 A, max. 22.56 W,	
	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.53 A to 0.4 A, max. 22.6 W	
	without -5G & without 6-132mm:	
	three-core terminal block,	
	12 VDC ± 20%, 1.88 A, max. 22.56 W,	
	24 VAC ± 20%, 1.57 A, max. 21.5 W,	
	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.53 A to 0.4 A, max. 22.6 W	
Material	Aluminum alloy body	



Dimension	With -Y: Ø140 mm × 377.4 mm (Ø5.5" × 14.9"), Without -Y: Ø144.1 mm × 374.7 mm (Ø5.7" × 14.8")			
Package Dimension	425 mm × 190 mm × 180 mm (16.7" × 7.5" × 7.1")			
Weight	Approx. 2170 g (4.78 lb.)			
With Package Weight	Without -Y: Approx. 3364 g (7.42 lb.), -Y: Approx. 3275 g (7.22 lb.)			
Storage Conditions	-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)			
Startup and Operating Conditions	-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)			
Language	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			
General Function	Heartbeat,anti-banding,one-key reset,mirror,password protection,flash log			
Heater	Yes			
Demist	Yes			
Device Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6			
Approval	output alarm interfaces			
Approvai	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-			
	2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021,			
EMC	RCM: AS/NZS CISPR 32: 2015,			
LIVIC	IC: ICES-003: Issue 7,			
	KC: KN32: 2015, KN35: 2015			
	CB: IEC 62368-1: 2014+A11,			
	CE-LVD: EN 62368-1: 2014/A11: 2017,			
Safety	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
Top-level protection	areas where professional anti-corrosion protection is a

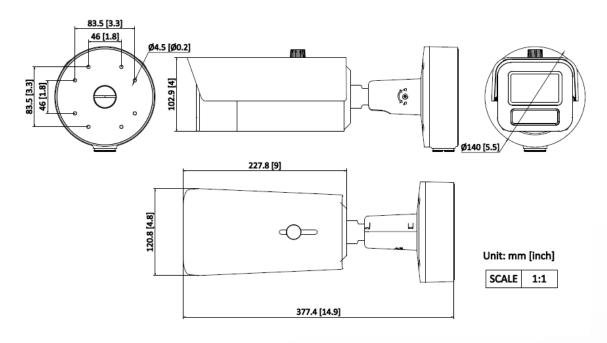


	must. Typical application scenarios include coastlines, docks, chemical plants, and more.	
	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical	
Moderate protection	application scenarios include coastal areas about 2 kilometers (1.24 miles) away 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.	

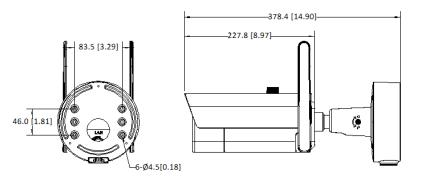
Available Model

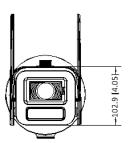
VNE-DS-CD746GI-HZ

Dimension

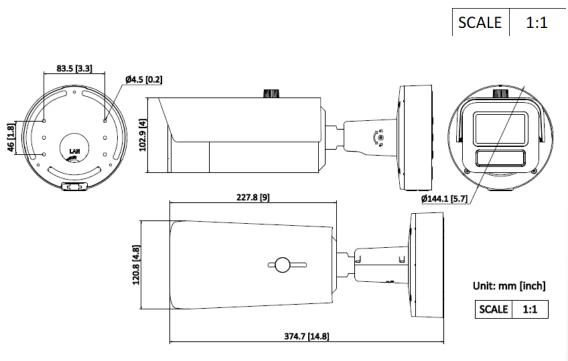




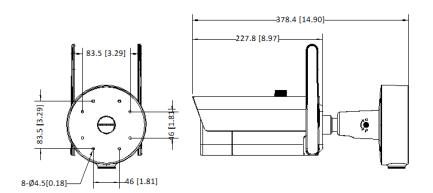


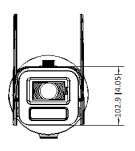


Unit: mm [inch]









Unit: mm [inch]

SCALE 1:1



Accessory

Optional

DS-1475ZJ-SUS Vertical pole mount	DS-1476ZJ-SUS Corner mount	DS-1275ZJ-S-SUS Vertical pole mount	DS-1475ZJ-Y Vertical pole mount	DS-1476ZJ-Y Corner mount
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See Far, Go Further



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