

iDS-2CD7A46G2-IZHS(Y)/4G 4MP 4G 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 G-sensor for 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 alarmif not.



Specification

Camera					
Image Sensor	1/1.8" Progressive Scan CMOS				
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,				
Day & Might	Blue glass module (less ghost phenomenon)				
Lens					
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 114.6° to 41.8°, vertical FOV 59.3° to 23.6°, diagonal FOV 141.3° 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° 10 to 50 mm, horizontal FOV 41.5° to 9.3°, vertical FOV 23.2° to 5.3°, diagonal FOV 49.9° to 10.7°				
Focus	Auto,Semi-auto,Manual				
Iris Type	P-iris				
Aperture	2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73, 10 to 50 mm: F1.38-F1.56				
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 10 to 50 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 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 10 to 50 mm:D (Detect): 635.9 m, O (Observe): 252.3 m, R (Recognize): 127.2 m, I (Identify): 63.6 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; 10 to 50 mm: Monitoring: 100 m				
Smart Supplement Light	Yes				
IR Wavelength	850 nm				



HEOP					
	Memory: 150 MB,				
Open Resources	Smart RAM: 2200 MB,				
	eMMC: 1288 MB				
Computing Power	2.5 TOPS				
Open Capability	HEOP 2.0 OpendevSDK				
Deep Learning Structure	Caffe,PyTorch,TensorFlow				
Programming Language	C,C++				
Video					
	Monitoring mode:				
	50 Hz: up to 50 fps (2688 × 1520, 1280 × 720), up to 100 fps (1920 × 1080)				
	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.				
	smart mode:				
	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)				
	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)				
Sub-Stream	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480)				
Sub-Stream	60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)				
Third Ctrop m	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)				
Fourth Stroom	50 Hz: 25 fps (704 × 576,640 × 480)				
Fourth Stream	60 Hz: 30 fps (704 × 480,640 × 480)				
Fifth Stream	50 Hz: 25 fps (704 × 576,640 × 480)				
Filui Su eaiii	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				
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 to 192 Kbps				
Audio dit nate	(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, DHCP, DNS, DDNS, RTP, SRTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, WebSocket,				
Protocols	WebSockets , MQTT/MQTTS , Support X.509 authentication , Support802.1xEAP-GTC				
	and MSCHAP V2; 802.1xEAP 1.2 supports a maximum 32-bit key.				
Simultaneous Live View	Up to 20 channels				
API	ISAPI,SDK,ISUP,OTAP,ONVIF (ProfileS, ProfileG, ProfileT, ProfileM)				
User/Host	Up to 32 users 3 user levels: administrator, operator, and user				
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (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				
Smooth Streaming	Yes				
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.				
Client	iVMS-4200,Hik-Connect,Hik-Central				
Web Browser	Plug-in required live view: IE 10, IE 11, 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	LTE-TDD/LTE-FDD/WCDMA/GSM				
Frequency	/LA : LTE-TDD: Band38/40 LTE-FDD: Band1/2/3/4/5/7/8/12/17/28/66 WCDMA: Band1/2/3/4/5/8 GSM: 850/900/1800/1900 MHz other : LTE-TDD: Band38/40/41 LTE-FDD: Band1/3/5/7/8/20/28 WCDMA: Band1/5/8 GSM: 850/900/1800 MHz				
SIM Card Type	Nano SIM				
Image Darameters Switch	Voc				
Image Parameters Switch Image Settings	Yes Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable by client software or web browser				
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger				
Wide Dynamic Range (WDR)	150 dB				
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Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog				
Image Enhancement Privacy Mask	BLC,HLC,3D DNR,Distortion Correction,Defog 8 programmable polygon privacy masks				
	-				



Image Stabilization	EIS				
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				
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)				
	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,				
٨ا -	input impedance: 4.7 K Ω , interface type: non-equilibrium,				
Audio	1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp,				
	output impedance: 100Ω , interface type: non-equilibrium, mono sound				
RS-485	-Y: 1 RS-485 (Halfduplex, 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				
D : 5 .	vehicle)),video tampering alarm,exception (network disconnected, IP address conflict,				
Basic Event	illegal login, HDD full, HDD error), glass break detection, scream detection, guns hot and				
	explosion sound detection, crying sound detection				
	Line crossing detection, intrusion detection, region entrance detection, region exiting				
Smart Event	detection				
Pala a	Upload to FTP/NAS/memory card,notify surveillance center, send email, trigger alarm				
Linkage	output,trigger recording,trigger capture,audible warning				
Deep Learning Function					
	Supports dynamic mosaic mask,				
	Supports ShotN technology,				
	Supports simultaneous detection and capture of human body, face, and vehicle,,,				
Multi-target-type Detection	Gets 7 face features,				
	Gets 13 human body features,				
	Gets 2 vehicle features,				
	Supports counting the number of line crossing targets by type, including human				
	body, non-motor vehicle, motor vehicle,				
	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 facelibraries. 30,000 faces for each library. 150,000 faces in total,				
Face Comparison	Supports face library encryption				
	Support the detection of person smoking or making phone calls and trigger alarm. The				
Activity Analysis	detection attributes include head and shoulders, hands, faces, making phone calls, and				
	smoking.				



	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,
	Supports generating daily, weekly, monthly or annually reports,
People 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
	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
Queue Management	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
leat 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
Hard Hat Detection	Detects up to 30 human targets simultaneously
Tard Hat Detection	Supports up to 4 shield regions
Moto do to	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
Danianal Basala Countina	People density detection: supports scheduled uploading, number of people change
Regional People Counting	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 tha
	threshold B (threshold A should be less than threshold B)



	Supports up to 8 detection regions, and independent arming schedule and linkage method			
On/Off Duty Detection	Supports 2 detection modes: absence detection, on/off duty detection			
	Supports parameter settings: person on duty, absence duration			
	Detects hard hat and reflective clothing, triggering alarm when not worn.			
PPE Detection	Detects people not wearing hard hat. Supported hat colors: red, orange, yellow, blue,			
	white, and others.			
General				
	-Y:			
	three-core terminal block,			
	12 VDC ± 20%, 1.95 A, max. 23.4 W,			
Power	24 VAC ± 20%, 1.66 A, max. 23.8 W,			
	Without -Y:			
	12 VDC ± 20%, 1.91 A, max. 22.9 W,			
	24 VAC ± 20%, 1.45 A, max. 22.9 W,			
Material	24 VAC ± 20%, 1.45 A, max. 22.9 W, Aluminum alloy body			
	With -Y: Ø140 mm × 377.4 mm (Ø5.5" × 14.9"), Without -Y: Ø144.1 mm × 374.7 mm			
Dimension	(Ø5.7" × 14.8")			
Package Dimension	425 mm × 190 mm × 180 mm (16.7" × 7.5" × 7.1")			
Weight	Approx. 2330 g (5.14 lb.)			
With Package Weight	Approx. 3575 g (7.88 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)			
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian			
	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			
General Function	Heartbeat,anti-banding,one-key reset,mirror,password protection,flash log			
Heater	Yes			
Demist	Yes			
5	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6			
Device Management	output alarminterfaces			
Integrated Connector Panel	-Y: No			
Approval				
	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,			
	IC: ICES-003: Issue 7,			
	KC: KN32: 2015, KN35: 2015			
	CB: IEC 62368-1:2014+A11,			
Cafab	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	-Y: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		
	Hikvision products at this level are equipped for use in		
Top-level protection	areas where professional anti-corrosion protection is a		
Top-rever protection	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		
No specific protection	areas where no specific anti-corrosion protection is needed.		

Available Model

iDS-2CD7A46G2-IZHS/4G(2.8-12)(B)O-STD/LA

iDS-2CD7A46G2-IZHS/4G(2.8-12mm)(B)O-STD

iDS-2CD7A46G2-IZHS/4G(8-32mm)(B)

iDS-2CD7A46G2-IZHS/4G(10-50mm)(B)

iDS-2CD7A46G2-IZHS/4G(8-32)(B)O-STD/LA

iDS-2CD7A46G2-IZHS/4G(10-50)(B)O-STD/LA

iDS-2CD7A46G2-IZHSY/4G(10-50mm)(B)O-STD

 $i\,DS\text{-}2CD7A46G2\text{-}IZHSY/4G(2.8\text{-}12)(B)OSTD/LA$

iDS-2CD7A46G2-IZHSY/4G(2.8-12mm)(B)O-NEU

iDS-2CD7A46G2-IZHSY/4G(8-32)(B)O-STD/LA

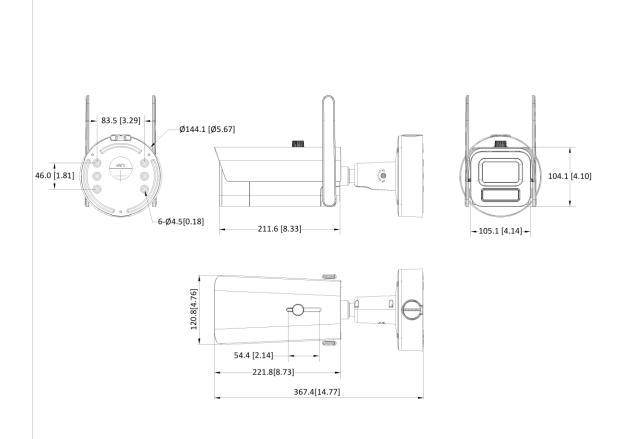
iDS-2CD7A46G2-IZHSY/4G(10-50)(B)O-STD/LA

iDS-2CD7A46G2-IZHSY/4G(2.8-12mm)(B)O-STD

iDS-2CD7A46G2-IZHSY/4G(8-32mm)(B)

Dimension





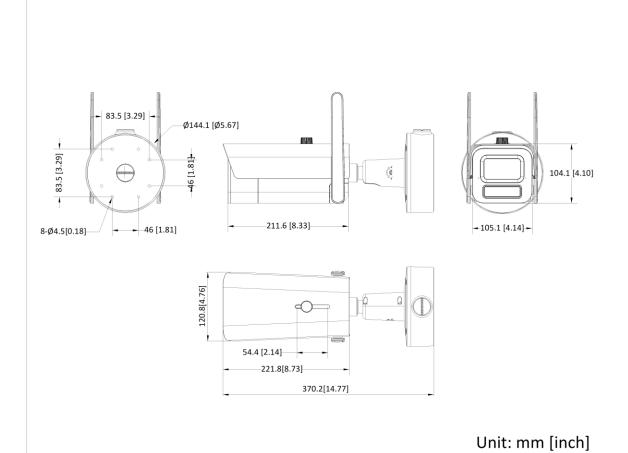
Unit: mm [inch]

SCALE 1:1



SCALE

1:1



Accessory

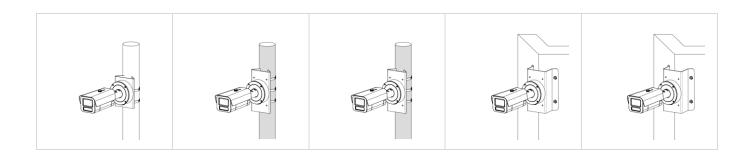
Optional

DS-1275ZJ-S-SUS	DS-1475ZJ-SUS	DS-1476ZJ-Y	DS-1475ZJ-Y	DS-1476ZJ-SUS
TB .				

Installation Methods

Vertical Pole	Vertical Pole	Vertical Pole	Corner Mounting	Corner Mounting
Mounting	Mounting	Mounting	DS-1476ZJ-Y	DS-1476ZJ-SUS
DS-1275ZJ-S-SUS	DS-1475ZJ-SUS	DS-1475ZJ-Y	D3-1470ZJ-1	D3-14702J-303





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