Bidding Document for Request for Quotation for Procurement of Goods

PARLIAMENT OF MALAWI

Request for Quotations (for Goods)

RFQ No.: POM/RFQ/PDU/4/CCTV/2025-2026/173

To: ....

....

....

Date: 6th March, 2026

The Procuring and Disposing Entity named above invites you to submit your quotation for the goods described herein. Partial Quotations may be rejected, and the Procuring and Disposing Entity reserves the right to award a contract for selected items only. Any resulting order shall be subject to the Government of Malawi General Conditions of Contract for Local Purchase Orders except where modified by this Request for Quotations.

SECTION A: QUOTATION REQUIREMENTS—

1. Description of Goods the Bidder is bidding to Supply and Deliver: **Supply, delivery and Installation of CCTV Cameras at Parliament**

2. Quotation prices should be based on—

   (a) for goods supplied from within Malawi; EXW – insured and delivered to **Parliament Stores, at Parliament Building, Presidential drive, City Centre**

   (b) for goods supplied from outside of Malawi; DDP : **Parliament Stores, at Parliament Building, Presidential drive, City Centre**

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3. The delivery period required is **11 days** from date of order

4. Quotations must be valid for **45 days** from the deadline for submission.
5. The warranty/guarantee offered shall be: **12 months**

6. Quotations and supporting documents as specified in Section C must be marked with the Procurement Reference Number given above, and indicate your acceptance of the terms and conditions.

7. Quotations must be received, in sealed envelopes, no later than: **14:00hours** on **10ᵗʰ March, 2026**

8. Quotations must be returned to the **Chairperson of IPDC: The Procurement and Disposal Unit, Parliament of Malawi, Presidential Way, Parliament Building - Room No. 247, LILONGWE.**

9. The attached Schedule of Requirements in Section D, details the items to be procured. You are requested to quote your delivered price for these items by completing and returning Sections C and D.

10. Payment to the supplier shall be made within **60 days** from the date of receipt of invoice.

11. The detailed descriptions of the goods required are provided in table below. Bidders shall provide full descriptions of the products being offered in Section D - Price Schedule.

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Your quotation is to be returned by completing and returning this Form and Section C and D including any other information/certification required within this RFQ.

SECTION B: QUOTATION SUBMISSION SHEET

1. Currency of Quotation: Malawi Kwacha

2. Delivery period offered: .... [insert a number] days/weeks/months from date of the Local Purchase Order.

3. The validity period of this Quotation is: .... [insert a number] days from the date for receipt of Quotations.

4. Warranty period (where applicable): .... [insert a number] months.

5. We attach the following documents: [tick against the document(s) you have attached]

   (a) Section D of the Request for Quotations completed and signed; ☐

   (b) A copy of our Business Registration Certificate and Trading Licence; ☐

   (c) A copy of our Annual Tax Clearance Certificate (for the last Financial Year); (d) A list of recent Government contracts performed; ☐

   (e) [Insert any other documentation required by the Procuring and Disposing Entity].

   ....
   .....

   ....
   .....

6. We offer to supply in conformity with the Request for Quotations Documents and in accordance with the delivery schedule required in Section D: Schedule of Requirements]

7. We have examined and have no reservations to the Request for Quotations Document, including Addenda No: (Insert Number and date) of Addenda).

8. Our price shall be fixed for the duration of the validity period

9. We declare that our firm, Directors and Beneficial Owners do not engage in corrupt, fraudulent and/or uncompetitive practices whenever participating in procurement proceedings.

AUTHORISED BY: [to be completed by someone who has the power of attorney for the bidder]

Signature : _____   Name: _____
___   ___

Position: _____   Date: _____
___   ___

Bidding Document for Request for Quotation for Procurement of Goods

Authorised for and on behalf of (Company name):   (DD/MM/YY)

Company
:   _____
           _____

Registered Address:

_____
_____
_____

If any additional documentation is attached to your quotation, a signature and authorisation at Section C and Section D is still required as confirmation that the terms and conditions of this RFQ prevail over any attachments. If the Quotation is not authorised in Section B and Section C, the quotation may be rejected.
12.

SECTION C: SCHEDULE OF REQUIREMENTS (TO BE PRICED BY BIDDER)

NO.	ITEM	QTY	SPECIFICATIONS for floor area	Unit Cost	Total Cost
1.	CCTV Cameras with accessories-Bullet outdoor	5	Please see attached specifications below		
2.	CCTV Cameras with accessories-Dome indoor	1	Please see attached specifications below		
3.	CCTV Cameras with accessories-PTZ auto tracking	2	Please see attached specifications below		
			Grand Total including VAT17.5%		

Note: You will be required to attend pre bid meeting that will take place on Monday, 9th March, 2026, at 10:30 am at Parliament Building. It will part of evaluation criteria.

INTERNAL MEMORANDUM

DATE

12/02/2026

FROM : KENNEDY MTAMBALIKA (CCTV)

TO : CAO

CC : HEAD SAA, HEAD SECURITY SECTION

SUBJECT: A SURVEY OF CCTV INSTALLATION PROJECT AT HON. SPEAKERS RESIDENCE.

Following the survey that we conducted at Speakers Residence, we come out with the following setup and allocation of CCTV Cameras in the precincts.

LOCATION	TYPE OF CAMERA	QUANTITY
Guardroom	Bullet outdoor	2
Veranda side	Bullet outdoor	2
Kitchen side	Bullet outdoor	1
Main Corridor	Dome indoor	2
Backyard side	PTZ auto tracking	1
Front side	PTZ auto tracking	1
TOTAL		9

Below are number of material needed to make project complete

ITEMS	DESCRITION	QUANTITY
Cameras	IP 4MP	9
NVR	16 channel	1
Hard drive	10 TB	1
Cable	Network	1 box
Switch		1
Power supply		1
Monitor Screen	43"	1
Mouse	Cordless	1

NOTE: If the user has a need to operate the system remotely/ outside the compound, there is a need to Router and application on the material list above.

Submitted for further action Madam.

DS-2CD2T47G3-LIS2UY/S(L)(RB)
4 MP Smart Hybrid Light Fixed Bullet Network Camera

ColorVu 3.0
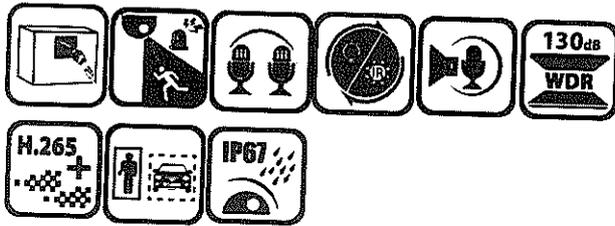
Hikvision ColorVu technology provides 24/7 vivid colorful images with F1.0 advanced lenses, high performance sensors and friendly lighting. F1.0 super-aperture collects more light to produce brighter images. Advanced sensor technology can vastly improve the utilization of available light.

- HikAI-ISP for excellant noise reduction effect
- 24/7 colorful imaging via ColorVu technology
- Scene-adaptive WDR
- Focus on Person and Vehicle classification based on deep learning
- Built-in arrayed dual-microphone for real-time high quality audio security
- Provide real-time security via built-in two-way audio
- Anti-corrosion design, providing reliability and longevity compared to standard (NEMA4X)
- Smart Hybrid Light: Integrates IR and White lights, 3 supplemental lighting modes
- Audio and alarm interface available
- Water and dust resistant (IP67)
- Active strobe light and audio alarm to warn intruders off

▪ Specification

Camera

Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.0001 Lux @ (F1.0, AGC ON), 0 Lux with light
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°

Lens

Lens Type	Fixed focal lens, 2.8 and 4 mm optional
Focal Length & FOV	2.8 mm, horizontal FOV 111.1°, vertical FOV 57.6°, diagonal FOV 138.5° 4 mm, horizontal FOV 95.2°, vertical FOV 48.3°, diagonal FOV 117.4°
Lens Mount	M16
Iris Type	Fixed
Aperture	F1.0
Depth of Field	2.8 mm: 2.5 m to ∞ 4 mm: 3.1 m to ∞

DORI

DORI	2.8 mm: D: 61 m, O: 24 m, R: 12 m, I: 6 m 4 mm: D: 75 m, O: 30 m, R: 15 m, I: 7 m

Illuminator

Supplement Light Type	White Light, IR
Supplement Light Range	Up to 60 m
Smart Supplement Light	Yes
IR Wavelength	850 nm

Video

Main Stream	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, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) *The third stream is supported under certain settings.
Video Compression	Main stream: H.265/H.264/H.264+/H.265+, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, *Third stream is supported under certain settings.
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)	1 fixed region for main stream

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 (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

Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets, SRTP, SFTP
Simultaneous Live View	Up to 6 channels
API	ONVIF (Profile S, Profile T, Profile G), ISAPI, SDK, ISUP
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 1.1/1.2/1.3, host authentication (MAC address)
Network Storage	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+, Local service: Chrome 80+, Firefox 80+, Edge 89+

Image

Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR, Distortion Correction, Defog
SNR	≥ 52 dB
Wide Dynamic Range (WDR)	130 dB
Image Stabilization	EIS
Privacy Mask	4 programmable polygon privacy masks

Interface

Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Built-in Speaker	Max. power consumption: 2 W, max. sound pressure level: 10 cm: 120 dB.
Audio	Built-in Microphone: Arrayed dual-microphone 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium, 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
Alarm	2 input, 2 output (max. 24 VDC/24 VAC, 1 A)
Reset Key	Yes

Event

Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception
Smart Event	Scene change detection

Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning, strobe light flashing
Deep Learning Function	
Face Capture	Yes
Perimeter Protection	Line crossing detection, region entrance, region exiting. Support alarm triggering by specified target types (human and vehicle)

General

Power	12 VDC ± 25%, 1.41 A, max. 17 W, Ø5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3at, Class 4, max. 18 W
Material	Front cover: metal, body: metal, bracket: Metal
Dimension	286.7 mm × 93.3 mm × 91.2 mm (11.3" × 3.7" × 3.6")
Package Dimension	386 mm × 156 mm × 155 mm (15.2" × 6.1" × 6.1")
Weight	Approx. 1250 g (2.8 lb.)
With Package Weight	Approx. 1800 g (4.0 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
General Function	Heartbeat, mirror, flash log, password reset via email, pixel counter, anti-banding
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
Flashing Light	/SRB model: Red and Blue Light /SL model: White Light

Approval

EMC	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, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015
Safety	UL: UL 62368-1, CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017
Environment	CE-RoHS: 2011/65/EU
Protection	IP67: IEC 60529-2013 NEMA 4X (NEMA 250-2018)
Anti-Corrosion Protection	

▪ 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.

This model has MODERATE 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

DS-2CD2T47G3-LIS2UY/SL(2.8mm)

DS-2CD2T47G3-LIS2UY/SL(4mm)

DS-2CD2T47G3-LIS2UY/SL(2.8mm)(Black)

DS-2CD2T47G3-LIS2UY/SRB(2.8mm)

DS-2CD2T47G3-LIS2UY/SRB(4mm)

DS-2CD2T47G3-LIS2UY/SRB(2.8mm)(Black)

▪ Dimension

SPEC
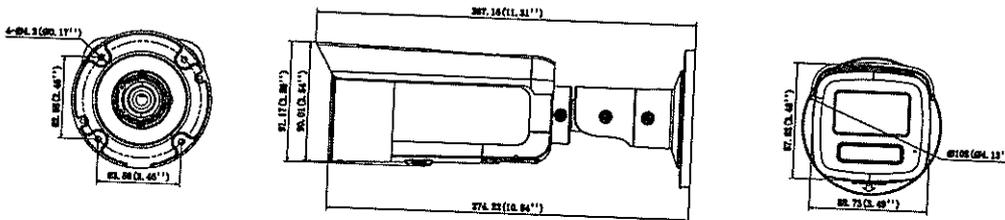
Unit: mm(inch)

▪ Accessory

▪ Optional

DS-1275ZJ-SUS   DS-1276ZJ-SUS   DS-1260ZJ   DS-1275ZJ-S-SUS
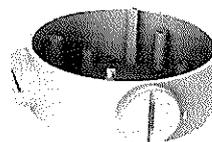
Installation Methods

Vertical Pole Mounting DS-1275ZJ-SUS+DS-1260ZJ	Vertical Pole Mounting DS-1275ZJ-S-SUS	Corner Mounting DS-1276ZJ-SUS+DS-1280ZJ-S	Junction Box DS-1260ZJ

See Far, Go Further

www.hikvision.com
support@hikvision.com

HIKVISION

HIKVISION

DS-2CD2147G3-LI(S2U)Y
4 MP Smart Hybrid Light with ColorVu Fixed Dome Network Camera

ColorVu 3.0
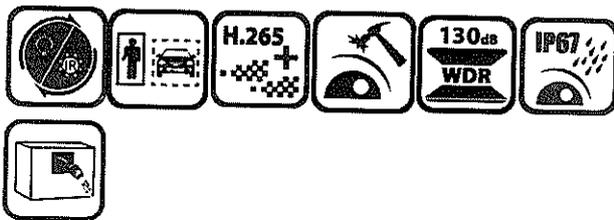
Hikvision ColorVu technology provides 24/7 vivid colorful images with F1.0 advanced lenses, high performance sensors and friendly lighting. F1.0 super-aperture collects more light to produce brighter images. Advanced sensor technology can vastly improve the utilization of available light.

- HikAI-ISP for excellent noise reduction effect

- 24/7 colorful imaging via ColorVu technology

- Scene-adaptive WDR

- Focus on Person and Vehicle classification based on deep learning

- -S2U: Built-in arrayed dual-microphone for real-time high quality audio security

- Anti-corrosion design, providing reliability and longevity compared to standard (NEMA4X)

- Smart Hybrid Light: Integrates IR and White lights, 3 supplemental lighting modes

- Water and dust resistant (IP67) and vandal-resistant (IK10)

www.hikvision.com

Specification

Camera

Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.0001 Lux @ (F1.0, AGC ON),0 Lux with light
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 355°,tilt: 0° to 75°,rotate: 0° to 355°

Lens

Lens Type	Fixed focal lens, 2.8 and 4 mm optional
Focal Length & FOV	2.8 mm, horizontal FOV 111.1°, vertical FOV 57.6°, diagonal FOV 138.5°
	4 mm, horizontal FOV 95.2°, vertical FOV 48.3°, diagonal FOV 117.4°
Lens Mount	M16
Iris Type	Fixed
Aperture	F1.0
Depth of Field	2.8 mm: 2.5 m to ∞
	4 mm: 3.1 m to ∞

DORI

DORI	2.8 mm: D: 61 m, O: 24 m, R: 12 m, I: 6 m
	4 mm: D: 75 m, O: 30 m, R: 15 m, I: 7 m

Illuminator

Supplement Light Type	White Light,IR
Supplement Light Range	Up to 30 m
Smart Supplement Light	Yes
IR Wavelength	850 nm

Video

Main Stream	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, 640 × 480, 640 × 360)
	60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
	60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
	*The third stream is supported under certain settings.
Video Compression	Main stream: H.265/H.264/H.264+/H.265+,
	Sub-stream: H.265/H.264/MJPEG,
	Third stream: H.265/H.264,
	*Third stream is supported under certain settings.
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)	1 fixed region for main stream

Audio

Audio Type	-2U: Mono sound
Audio Compression	-2U: G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC

Audio Bit Rate	-2U: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/16 Kbps to 64 Kbps (AAC-LC)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)
Audio Sampling Rate	-2U: 8 kHz/16 kHz/32 kHz/48 kHz
Environment Noise Filtering	-2U: Yes

Network

Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets, SRTP, SFTP
Simultaneous Live View	Up to 6 channels
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
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 1.1/1.2/1.3, host authentication (MAC address)
Network Storage	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+, Local service: Chrome 80+, Firefox 80+, Edge 89+

Image

Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR, Distortion Correction, Defog
SNR	≥ 52 dB
Wide Dynamic Range (WDR)	130 dB
Image Stabilization	EIS
Privacy Mask	4 programmable polygon privacy masks

Interface

Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Built-in Speaker	NA
Audio	-S2U models support: Built-in Microphone: Arrayed dual-microphone 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium, 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
Alarm	-S: 1 input, 1 output (max. 24 VAC/VDC, 1A)
Reset Key	Yes
Indicator	NA

Event

Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,trigger recording,trigger capture,send email,-S model: trigger alarm output
Smart Event	Scene change detection

Deep Learning Function

Face Capture	Yes
Perimeter Protection	Line crossing,intrusion,region entrance,region exiting Support alarm triggering by specified target types (human and vehicle)

General

Power	12 VDC ± 25%, 0.6 A, max. 7.2 W,Ø5.5 mm coaxial power plug,reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 9 W
Material	Base: aluminum alloy, cover: aluminum alloy
Dimension	Ø121.5 mm × 97.6 mm (Ø4.78" × 3.84")
Package Dimension	234 mm × 120 mm × 117 mm (9.2" × 4.7" × 4.6")
Weight	Approx. 600 g (1.3 lb.)
With Package Weight	Approx. 825 g (1.8 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
General Function	Heartbeat,mirror,flash log,password reset via email,pixel counter,anti-banding
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

Approval

EMC	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, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015
Safety	UL: UL 62368-1, CB: IEC 62368-1:2014+A11, CE-LVD: EN 62368-1:2014/A11: 2017, BIS: IS 13252 (Part 1): 2010/IEC 60950-1:2005
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Protection	IP67: IEC 60529-2013,IK10: IEC 62262:2002
Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018)

▪ 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.

This model has MODERATE 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

DS-2CD2147G3-LIS2UY(2.8mm)

DS-2CD2147G3-LIS2UY(4mm)

DS-2CD2147G3-LIS2UY(2.8mm)(CA Branch)

DS-2CD2147G3-LIS2UY(2.8mm)(BLACK)

DS-2CD2147G3-LIS2UY(2.8mm)(CA Branch)/B

DS-2CD2147G3-LIY(2.8mm)

DS-2CD2147G3-LIY(4mm)

▪ Dimension

97.6 (3.84")

50.9 (2.00")

Ø121.5 (4.78")

SR42.4 (1.67")

3-Ø4.2 (0.17")

Ø104.7 (4.12")

3-120°
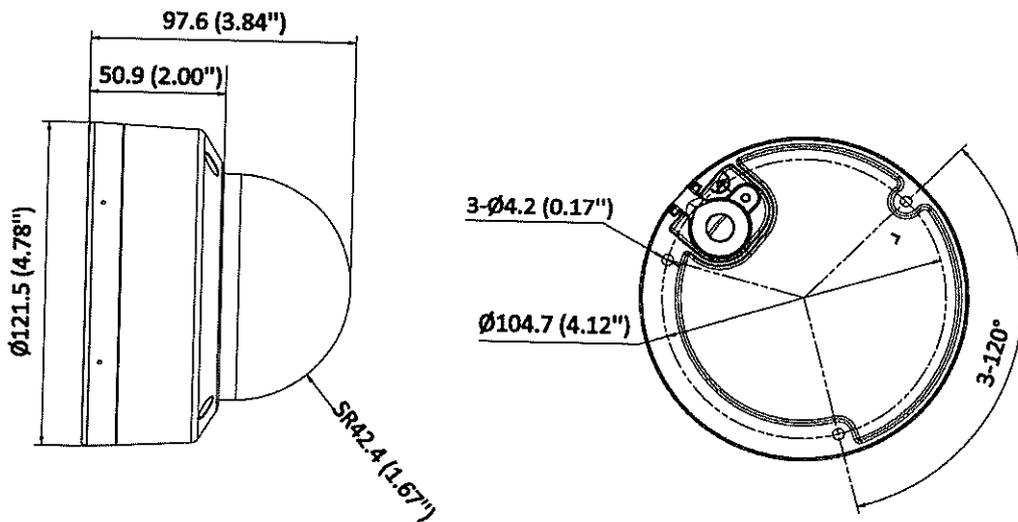
Unit: mm (inch)

▪ Accessory

▪ Optional

DS-1275ZJ-SUS   DS-1276ZJ-SUS   DS-1272ZJ-120   DS-2280ZJ-WA120   DS-2200ZJ-WA-120

DS-2200ZJ-WAJ-12 0
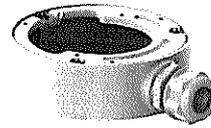
DS-1271ZJ-120   **DS-1280ZJ-DM46**   **DS-2210ZJ-WA-120**   **DS-1272ZJ-120B**

▪ Installation Methods
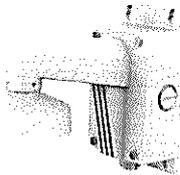
| Vertical Pole Mounting DS-1275ZJ-SUS+DS-1272ZJ-120+DS-1253ZJ-M | Corner Mounting DS-1276ZJ-SUS+DS-1272ZJ-120+DS-1280ZJ-DM46 | Wall Mounting DS-1272ZJ-120 | Wall Mounting DS-2200ZJ-WA-120+DS-1253ZJ-M | Wall Mounting DS-2200ZJ-WAJ-120+DS-1253ZJ-M |

| Wall Mounting DS-1272ZJ-120B+DS-1280ZJ-DM46 | Junction Box DS-2280ZJ-WA120 | Junction Box DS-1280ZJ-DM46 | Pendant Mounting DS-1271ZJ-120+DS-1280ZJ-DM46 | Pendant Mounting DS-2210ZJ-WA-120 |
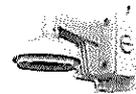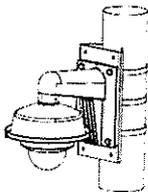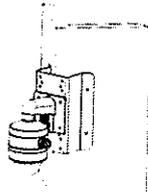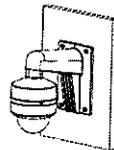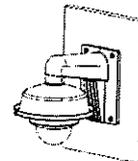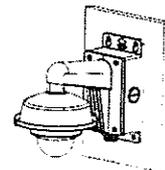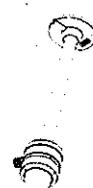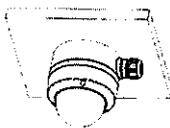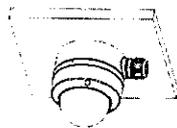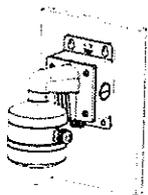
See Far, Go Further

HIKVISION

DS-2SE4C425MWG-E/14
TandemVu 4+4MP 25X ColorVu & IR Acusense Network Speed Dome

| H.264 | MASK | PoE | ROI | Scheduled Task | TRUE WDR |

| H.265 | Ultra Low Light |
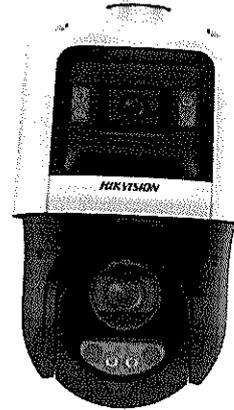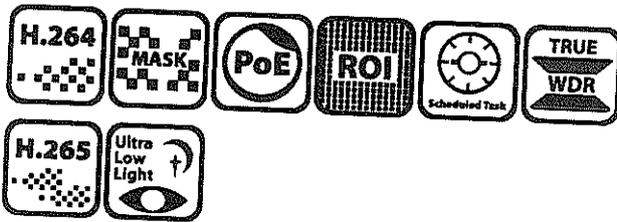
Hikvision DS-2SE4C425MWG-E(14F0) 4 MP 25 × IR Network Speed Dome adopts 1/2.8" progressive scan CMOS chip. With the 15 × optical zoom lens, the camera offers more details over expansive areas.

This series of cameras can be widely used for wide ranges of high-definition, such as rivers, roads, railways, airports, squares, parks, scenic spots, and venues, etc.

- Captures a large area and great details at the same time
- High quality imaging with 4 MP resolution
- Focuses on human and vehicle targets classification based on deep learning
- Excellent low-light performance with powered-by-DarkFighter technology and ColorVu technology
- Secures an expansive area with 25 × optical zoom and 16 × digital zoom
- Expansive night view with up to 100 m IR distance & 30 m white light
- Build-in speaker and dual-microphone for real-time high quality audio security
- Active strobe light and audio alarm to warn intruders off
- Supports 12 VDC & PoE+

• Specification

Camera

Image Sensor	[Bullet channel] 1/2.8" Progressive Scan CMOS, [PTZ channel] 1/2.8" Progressive Scan CMOS
Max. Resolution	[Bullet channel] 2560 × 1440, [PTZ channel] 2560 × 1440
Min. Illumination	[Bullet channel]: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with light; [PTZ channel]: Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/30,000 s
Day & Night	ICR
Zoom	[PTZ channel] 25 × optical, 16 × digital
Slow Shutter	yes

Lens

Focal Length	[Bullet channel] 2.8 mm, [PTZ channel] 5 to 125 mm
FOV	[Bullet channel] horizontal field of view: 96.1°, vertical field of view: 52.1°, diagonal field of view: 113.3°, [PTZ channel] horizontal field of view: 55° to 2.4°, vertical field of view: 33° to 1.4°, diagonal field of view: 61.5° to 2.8°
Focus	auto,manual,semi-auto
Aperture	[Bullet channel]: F1.0; [PTZ channel]: F1.6
Zoom Speed	[PTZ channel]: approx. 2.3 s

Illuminator

Supplement Light Type	[PTZ channel]: IR; [Bullet channel]: White Light
Supplement Light Range	[PTZ channel]: up to 100 m; [Bullet channel]: up to 30 m
Smart Supplement Light	Yes

PTZ

Movement Range (Pan)	360° endless
Movement Range (Tilt)	[Bullet channel] 9° to 21° (manually adjust), [PTZ channel] -15° to 90°
Pan Speed	Pan speed: configurable from 0.1° to 80°/s, preset speed: 80°/s
Tilt Speed	Tilt speed: configurable from 0.1° to 80°/s, preset speed 80°/s
Proportional Pan	yes
Presets	300
Preset Freezing	yes
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans
Park Action	preset,frame scan,tilt scan,patrol scan,random scan,auto scan,pattern scan,panorama scan
3D Positioning	yes
PTZ Status Display	yes
Scheduled Task	Preset,pattern scan,patrol scan,tilt scan,auto scan,random scan,frame scan,panorama scan,dome reboot,dome adjust,aux output
Power-off Memory	yes

Video

Main Stream	[Bullet channel] 50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720), 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720),[PTZ channel] 50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720), 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)

Sub-Stream	[Bullet channel]: 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240) [PTZ channel]: 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	[Bullet channel]: 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) [PTZ channel]: 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	H.265,H.264,MJPEG
Video Bit Rate	32 kbps to 16384 kbps
H.264 Type	main profile,baseline profile,high profile
H.265 Type	main profile
Scalable Video Coding (SVC)	yes
Region of Interest (ROI)	8 fixed regions for each stream
Audio	
Audio Compression	G.711,G.722.1,G.726,MP2L2,PCM,MP3,AAC-LC
Audio Bit Rate	64 Kbps (G.711),16 Kbps (G.722.1),16 Kbps (G.726),32 to 192 Kbps (MP2L2),16 to 64Kbps (AAC-LC),8 to 320 Kbps (MP3)
Audio Sampling Rate	MP2L2: 16 kHz, 32kHz, 48 kHz,AAC-LC: 16 kHz, 32kHz, 48 kHz,PCM: 8 kHz, 16 kHz, 32kHz, 48 kHz,MP3: 8 kHz, 16 kHz, 32kHz, 48 kHz
Environment Noise Filtering	yes
Network	
Protocols	DHCP,FTP,HTTPS,TCP/IP,ICMP,HTTP,SFTP,DNS,DDNS,RTP,RTSP,RTCP,PPPoE,NTP,UPnP, SMTP,SNMP,IGMP,802.1X,QoS,IPv4/IPv6,UDP,Bonjour,WebSocket,WebSockets
Simultaneous Live View	20
API	ONVIF (Profile S, Profile G, Profile T),ISAPI,SDK,ISUP
User/Host	32
Security	802.1X authenticated access,MAC address binding,Authenticated username and password,IP address filter,HTTPS encryption
Network Storage	NAS (NFS, SMB/CIFS),auto network replenishment (ANR)
Client	iVMS-4200,HikCentral Pro,Hik-Connect
Web Browser	IE 11, Chrome 80+, Firefox 80+, Safari 13+
Image	
Image Parameters Switch	Yes
Image Settings	sharpness,saturation,brightness,contrast
Day/Night Switch	day, night, auto, scheduled-switch
Wide Dynamic Range (WDR)	True WDR
SNR	> 52dB
Defog	Digital defog
Image Stabilization	EIS
Image Enhancement	BLC,HLC,3D DNR

Privacy Mask	[Bullet channel] 8 programmable polygon privacy masks, [PTZ channel] 24 programmable polygon privacy masks; mask color or mosaic configurable
Regional Focus	yes
Regional Exposure	yes

Interface

Ethernet Interface	RJ45, self-adaptive 10M/100M Ethernet port
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Audio	1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±10%, 1 audio output, line level, impedance: 600 Ω
Alarm	1 alarm input, 1 alarm output
Reset	yes
Built-in Microphone	2 built-in microphones, picking up sounds in the radius up to 8 m
Built-in Speaker	1 built-in speaker, with effective distance reaching max. 20 m

Event

Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), alarm input and output, audio exception detection
Smart Event	audio exception detection, region exiting detection, region entrance detection, intrusion detection, Line crossing detection
Linkage	[Bullet channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, and trigger recording, [PTZ channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, strobe light and audio alarm, and PTZ actions (such as preset, patrol scan, pattern scan)

Deep Learning Function

Face Capture	Detects up to 5 faces simultaneously, Uploads face with background and closed-up face pictures, Supports detecting, tracking, capturing, grading, selecting of face in motion, and outputs the best face picture
Regional People Counting	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

Linkage and Tracking

Smart Linkage	manual tracking, linked tracking capture , tracking in turn

General

Power	12 VDC, 3.33 A PoE: IEEE 802.3at, 42.5 to 57.2 V, 0.6 A
Dimension	Ø166 mm × 294.8 mm (Ø6.5" × 11.6")
Weight	Approx. 3.0 kg (16.5 lb.)
Material	ADC12
Operating Condition	-30 °C to 65 °C (-22 °F to 149 °F). Humidity 95% or less (non-condensing)
General Function	mirror, password protection, watermark, IP address filter
Demist	Demist by heating the glass

Approval

Protection	IP67 (IEC 60529-2013),TVS 6000 V lightning protection, surge protection and voltage transient protection

▪ DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.
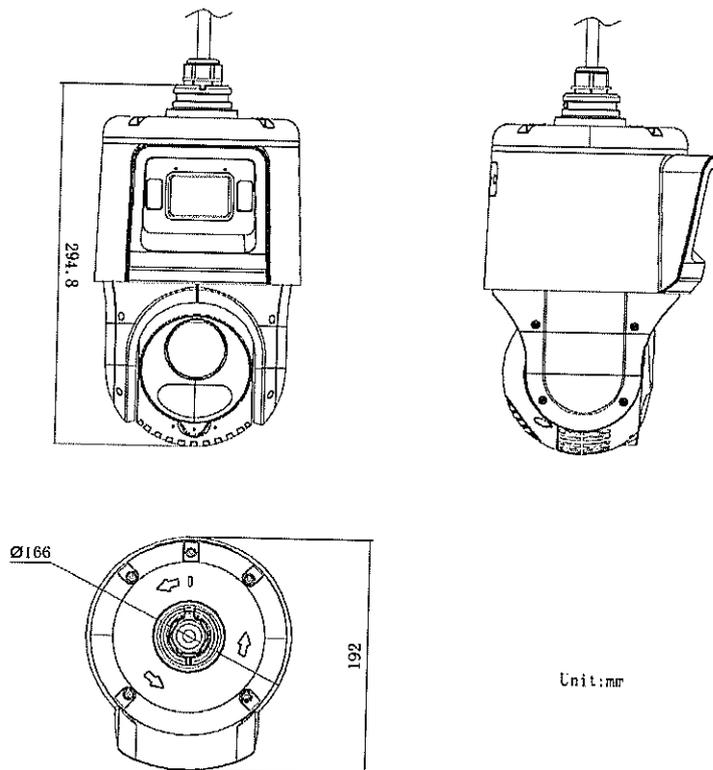
DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	960.0 m (3149.61 ft)	381.0 m (1250.0 ft)	192.0 m (629.92 ft)	96.0 m (314.96 ft)

▪ Available Model

DS-2SE4C425MWG-E/14(F0)

DS-2SE4C425MWG-E/14(F0)(Black)

▪ Dimension

Unit:mm

▪ Accessory

▪ Included

DS-1618ZJ
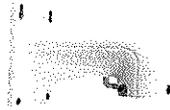
■Optional

DS-1660ZJ	DS-4650ZJ-WC	DS-1663ZJ	DS-1604ZJ-BOX-PO LE	DS-1276ZJ
DS-1604ZJ	DS-1604ZJ-BOX-CORNER	DS-1674ZJ	DS-1604ZJ-box	DS-1602ZJ
DS-1684ZJ	DS-1604ZJ-corner	DS-1619ZJ	DS-1662ZJ	DS-1661ZJ
DS-1604ZJ-pole	DS-4660ZJ-WC	DS-1667ZJ	DS-1673ZJ	DS-1673ZJ
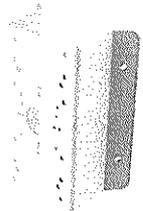
DS-1673ZJ

Installation Methods

Wall Mounting DS-1618ZJ	Wall Mounting DS-1604ZJ	Wall Mounting DS-1604ZJ-box	Wall Mounting DS-1602ZJ	Gooseneck Mounting DS-1660ZJ
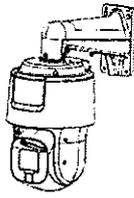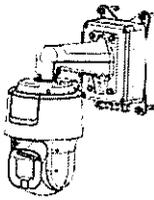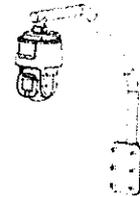
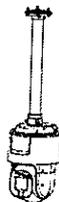| Gooseneck Mounting DS-1619ZJ	Vertical Pole Mounting DS-4650ZJ-WC+DS-1602ZJ+DS-1674ZJ	Vertical Pole Mounting DS-1604ZJ-BOX-POLE	Vertical Pole Mounting DS-1684ZJ+DS-1602ZJ	Vertical Pole Mounting DS-1604ZJ-pole
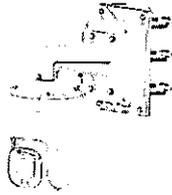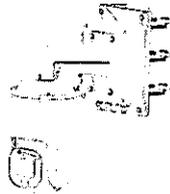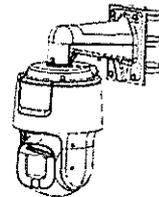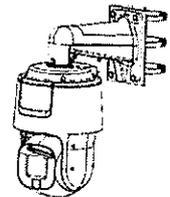
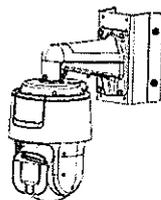| Pendant Mounting DS-1663ZJ	Pendant Mounting DS-1662ZJ	Pendant Mounting DS-1661ZJ	Pendant Mounting DS-1667ZJ	Corner Mounting DS-1276ZJ+DS-1602ZJ
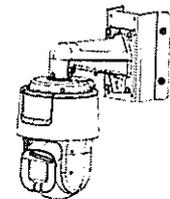
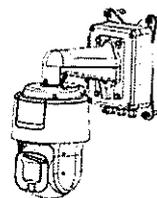| Corner Mounting DS-1604ZJ-BOX-CORNER	Corner Mounting DS-1604ZJ-corner	Corner Mounting DS-4660ZJ-WC+DS-1602ZJ+DS-1674ZJ	Junction Box DS-1674ZJ+DS-1602ZJ	Horizontal Pole Mounting DS-1673ZJ+DS-1662ZJ

Horizontal Pole Mounting DS-1673ZJ+DS-1661ZJ	Horizontal Pole Mounting DS-1673ZJ+DS-1663ZJ