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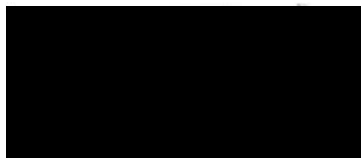
Návrh na plnenie kritéria

	Cena celkom za predmet zákazky v EUR bez DPH	Výška DPH	Cena celkom za predmet zákazky v EUR s DPH
návrh uchádzača	341 419.00 €	68 283.80 €	409 702.80 €

Som—Nie som platiteľom DPH (nehodiace sa preškrtnite)

V Bratislave, dňa 17.6.2021

podpis uchádzača



VÝKAZ KAMERY

Cenová tabuľka č. 1

P.č.	Názov	predpokladané množstvo	merná jednotka	jednotková cena bez DPH	cena bez DPH	DPH	Cena s DPH
1	Demontáž kamery	10	ks	15	150.00 €	30.00 €	180.00 €
2	Montáž a programovanie novej kamery s pripojením na server	50	ks	320	16 000.00 €	3 200.00 €	19 200.00 €
3	Inštalácia OR (plastová krabica s panelom do outdoor skrine)	50	ks	5	250.00 €	50.00 €	300.00 €
4	Zváranie v OR outdoor	30	ks	45	1 350.00 €	270.00 €	1 620.00 €
5	Inštalácia optického prevodníku	30	ks	5	150.00 €	30.00 €	180.00 €
6	Zatiahnutie optického kábla	3000	m	1	3 000.00 €	600.00 €	3 600.00 €
7	Inštalácia - Kruhový vodič 8 FeZn	1000	m	3	3 000.00 €	600.00 €	3 600.00 €
8	Inštalácia rozvodnice	30	ks	20	600.00 €	120.00 €	720.00 €
9	Inštalácia transformátora pre kameru	30	ks	3	90.00 €	18.00 €	108.00 €
10	Inštalácia PoE napájania s výstupom na optiku	30	ks	3	230.00 €	46.00 €	276.00 €
11	Zatiahnutie elektrického kábla	1000	m	1	1 000.00 €	200.00 €	1 200.00 €
12	Krimpovanie konektorov RJ45	30	ks	1	30.00 €	6.00 €	36.00 €
13	Zatiahnutie štruktúrovaného kábla	1000	m	1	1 000.00 €	200.00 €	1 200.00 €
14	Elektrická inštalácia a zapojenie	30	ks	50	1 500.00 €	300.00 €	1 800.00 €
15	Pripojovacie svorky jednostranné so svorkou KS	50	ks	5	250.00 €	50.00 €	300.00 €
16	Statický posudok na stĺp (verejného osvetlenia, trolejového vedenia)	50	ks	130	6 500.00 €	1 300.00 €	7 800.00 €
17	Východzia odborná skúška	30	ks	250	7 500.00 €	1 500.00 €	9 000.00 €
18	Projektová dokumentácia + inžinierska činnosť	30	ks	450	13 500.00 €	2 700.00 €	16 200.00 €
19	Ostatné poskytnuté práce pre inštaláciu kamery (paušál)	30	ks	30	900.00 €	180.00 €	1 080.00 €
20	Križovanie trolejového vedenia (spolupráca s DPB a.s., Vypnutie TV, práca v noci, prenájom izolovanej plošiny s osádkou)	5	ks	590	2 950.00 €	590.00 €	3 540.00 €
21	Geodetické zameranie	30	súbor	260	7 800.00 €	1 560.00 €	9 360.00 €
Tabuľka č. 1 spolu					67 750.00 €	13 550.00 €	81 300.00 €

Cenová tabuľka č. 2

P.č.	Názov	množstvo	merná jednotka	jednotková cena bez DPH	cena bez DPH	DPH	Cena s DPH
1	2.1.1 IP PTZ kamera typ 1	10	ks	2030	20 300.00 €	4 060.00 €	24 360.00 €
2	2.1.2 IP PTZ kamera typ 2	10	ks	2033	20 330.00 €	4 066.00 €	24 396.00 €
3	2.1.3 IP PTZ kamera typ 3	5	ks	650	3 250.00 €	650.00 €	3 900.00 €
4	2.1.4 IP pevná kamera typ 1	5	ks	946	4 730.00 €	946.00 €	5 676.00 €
5	2.1.5 IP pevná kamera typ 2	5	ks	6852	34 260.00 €	6 852.00 €	41 112.00 €
6	2.1.6 IP pevná kamera typ 3	5	ks	940	4 700.00 €	940.00 €	5 640.00 €
7	2.1.7 IP pevná kamera typ 4	5	ks	1286	6 430.00 €	1 286.00 €	7 716.00 €
8	2.1.8 IP pevná kamera typ 5	4	ks	940	3 760.00 €	752.00 €	4 512.00 €
9	2.1.9 IP pevná kamera typ 6	1	ks	1286	1 286.00 €	257.20 €	1 543.20 €
10	Skriňa (napr. Schneider Sarel Thalassa PLM (530x430x200), IP66	50	ks	192	9 600.00 €	1 920.00 €	11 520.00 €
11	Optická dome spojka pre min 24 vlákien na stĺp	35	ks	141	4 935.00 €	987.00 €	5 922.00 €
12	Optická spojka - kazeta do zeme pre min 24 vlákien	20	ks	250	5 000.00 €	1 000.00 €	6 000.00 €
13	Optický rozvádzač, Outdoor prevedenie	50	ks	120	6 000.00 €	1 200.00 €	7 200.00 €
14	Vonkajší dome box -optická spojka pre 24 vlákien s ochranou spojov	65	ks	68	4 420.00 €	884.00 €	5 304.00 €
15	Ochrana zvaru, zmršťovacia	30	ks	5	150.00 €	30.00 €	180.00 €
16	Kazeta pre OR	30	ks	15	450.00 €	90.00 €	540.00 €

17	Držiak zvarov pre kazetu do OR	30	ks	3	90.00 €	18.00 €	108.00 €
18	Patchkabel SM SC/PC duplex 1m	30	ks	3	90.00 €	18.00 €	108.00 €
19	Adaptér SC/PC DUPLEX, pre OR	30	ks	2	60.00 €	12.00 €	72.00 €
20	Pigtail SC, SM, 1,5m SCPC901.5	30	ks	2	60.00 €	12.00 €	72.00 €
21	Optický modul LC konektorom pre single-mode komunikáciu o prenosovej rýchlosti 100 Mbps. Dosiahnutá vzdialenosť je 20 km	30	ks	65	1 950.00 €	390.00 €	2 340.00 €
22	Optický modul LC konektorom pre single-mode komunikáciu o prenosovej rýchlosti 100 Mbps. Dosiahnutá vzdialenosť je 20 km protikus	30	ks	65	1 950.00 €	390.00 €	2 340.00 €
23	Optický modul LC konektorom pre single-mode komunikáciu o prenosovej rýchlosti 1000 Mbps. Dosiahnutá vzdialenosť je 20 km	20	ks	65	1 300.00 €	260.00 €	1 560.00 €
24	Optický modul LC konektorom pre single-mode komunikáciu o prenosovej rýchlosti 1000 Mbps. Dosiahnutá vzdialenosť je 20 km - protikus	20	ks	65	1 300.00 €	260.00 €	1 560.00 €
25	Transformátor 230 VAC/24VAC	30	ks	98	2 940.00 €	588.00 €	3 528.00 €
26	PoE zdroj s výstupom na optiku SM	30	ks	16	480.00 €	96.00 €	576.00 €
27	nemenežovateľný 4portový PoE switch, 4x 10/100 Mbps Base-T + 2x 100 Mbps uplink, celkovo na všetky porty max. 60 W, ochrana pred prepätím 2 kV	10	ks	120	1 200.00 €	240.00 €	1 440.00 €
28	switch 3x 10/100 Mbps + 1x Gbit + 2x SFP Gbit, podpora PoE pre 4 porty, 4x PoE (IEEE802.3af/at), port 1-3 max. 30 W, port 4 max. 60 W, celkovo na všetky porty max. 120 W	5	ks	187	935.00 €	187.00 €	1 122.00 €
29	Prepätňová ochrana	65	ks	11	715.00 €	143.00 €	858.00 €
30	Elektrický kábel CYKY 3x2,5	100	m	1.8	180.00 €	36.00 €	216.00 €
31	Elektrický kábel CMSM 3Jx1,5	100	m	1.6	160.00 €	32.00 €	192.00 €
32	Istič 6A char.B	30	ks	4.2	126.00 €	25.20 €	151.20 €
33	FTP cat5e indoor	50	m	0.7	35.00 €	7.00 €	42.00 €
34	FTP cat5e outdoor	100	m	1.3	130.00 €	26.00 €	156.00 €
35	Konektor RJ45	50	ks	0.9	45.00 €	9.00 €	54.00 €
36	Optický kábel , 24vl SM., zafukovací	500	m	1.8	900.00 €	180.00 €	1 080.00 €
37	Optický kábel , 16vl SM., zafukovací	500	m	1.4	700.00 €	140.00 €	840.00 €
38	Optický kábel závesný 24 vl SM samonosný	1000	m	4	4 000.00 €	800.00 €	4 800.00 €
39	Optický kábel závesný 16 vl SM samonosný	1000	m	3.2	3 200.00 €	640.00 €	3 840.00 €
40	Trubka ohybná PSM-E-MF	250	m	0.5	125.00 €	25.00 €	150.00 €
41	Trubka pancierová Ø 32	250	m	0.9	225.00 €	45.00 €	270.00 €
42	Držiak káblovej rezervy na stožiar	100	ks	15	1 500.00 €	300.00 €	1 800.00 €
43	Závesný hák samonosného kábla na stĺp	30	ks	6	180.00 €	36.00 €	216.00 €
44	Závesný hák samonosného kábla na budovu	30	ks	8	240.00 €	48.00 €	288.00 €
45	Podpera vedenia na ploché strechy dvojbodová - PV 21 beton/plast - 1,0kg	100	ks	1.9	190.00 €	38.00 €	228.00 €
46	Kruhový vodič 8 FeZn	1000	m	0.9	900.00 €	180.00 €	1 080.00 €
47	Prípojovacie svorky jednostranné so svorkou KS	50	ks	2.5	125.00 €	25.00 €	150.00 €
48	Trubka priem 20 UV stabilná	100	m	1.1	110.00 €	22.00 €	132.00 €
49	príchytka na stenu pre trubku UV stabilnú	100	ks	1.2	120.00 €	24.00 €	144.00 €
50	príchytka na stĺp pre trubu UV stabilnú	100	ks	1.2	120.00 €	24.00 €	144.00 €
Tabuľka č. 2 spolu					155 982.00 €	31 196.40 €	187 178.40 €

VÝKAZ VDG SENSE

Cenová tabuľka č. 3

PRÁCE							
P.č.	Názov	predpokla dané množstvo	merná jednot ka	jednotková cena bez DPH	cena bez DPH	DPH	cena spolu
1.	Konfigurácia Sense servera	1	ks	3 980.00 €	3 980.00 €	796.00 €	4 776.00 €
2.	Konfigurácia Sense pracovnej stanice	10	ks	350.00 €	3 500.00 €	700.00 €	4 200.00 €
3.	Ostatné práce	100	h	30.00 €	3 000.00 €	600.00 €	3 600.00 €
Tabuľka č. 3 spolu					10 480.00 €	2 096.00 €	12 576.00 €

Cenová tabuľka č. 4

VDG SENSE Hardware							
P.č.	Názov	predpokla dané množstvo	merná jednot ka	jednotková cena bez DPH	cena bez DPH	DPH	cena spolu
1.	Server - VDG Video server						
1.1	NVH-2608XR Video server 19", xeon, 2U, SSD, 8-port, HS RAID, RPSU (min. konfigurácii)	1	ks	3 960.00 €	3 960.00 €	792.00 €	4 752.00 €
1.2	NVH-2608XR Video server 19", dual xeon, 2U, SSD, 8-port, HS RAID, RPSU	1	ks	6 260.00 €	6 260.00 €	1 252.00 €	7 512.00 €
1.5	Extra 100/1000Mbps LAN interface	4	ks	212.00 €	848.00 €	169.60 €	1 017.60 €
1.7	Pro video server storage 8TB Pevný disk 3,5" , 256 MB cache, 7200 ot., Interface SATA 6 GB/sInterface transfer rate 600 MB/s, prevádzka 24/7	16	ks	286.00 €	4 576.00 €	915.20 €	5 491.20 €
1.8	Pro video server storage 10TB Pevný disk 3,5" , 256 MB cache, 7200 ot., Interface SATA 6 GB/sInterface transfer rate 600 MB/s, prevádzka 24/7	16	ks	312.00 €	4 992.00 €	998.40 €	5 990.40 €
1.9	Pro video server storage 12TB Pevný disk 3,5" , 256 MB cache, 7200 ot., Interface SATA 6 GB/sInterface transfer rate 600 MB/s, prevádzka 24/7	8	ks	485.00 €	3 880.00 €	776.00 €	4 656.00 €
2.	Pracovná stanica - VDG Video client						
2.1	NVH-1001 Compact, i5, SSD, 1TB HDD (min. v konfigurácii)	2	ks	1 565.00 €	3 130.00 €	626.00 €	3 756.00 €
2.2	NVH-1101 Video client, i7, SSD (desktop/tower)	8	ks	1 870.00 €	14 960.00 €	2 992.00 €	17 952.00 €
2.5	NVH-QUAD Quad mini display port/DVI-D output	8	ks	566.00 €	4 528.00 €	905.60 €	5 433.60 €
3	Monitor 1 27" Full HD LED, 1920x1080, 24/7,VGA,DVI,HDMI,DP + kabel pre pripojenie k PC (min. 2 m)	16	ks	321.00 €	5 136.00 €	1 027.20 €	6 163.20 €
4	Monitor 2 55" Full HD LED, 1920x1080, 24/7,VGA,DVI,HDMI, kabel pre pripojenie k PC (min. 2 m)	6	ks	1 608.00 €	9 648.00 €	1 929.60 €	11 577.60 €
4	Monitor 3 60" Full HD LED, 1920x1080, 24/7,VGA,DVI,HDMI,DP kabel pre pripojenie k PC (min. 2 m)	6	ks	2 446.00 €	14 676.00 €	2 935.20 €	17 611.20 €
Tabuľka č. 4 spolu					76 594.00 €	15 318.80 €	91 912.80 €

VÝKAZ SERVIS

Cenová tabuľka č. 5

PRÁCE							
P.č.	Názov	predpokladané množstvo	merná jednotka	jednotková cena bez DPH	cena bez DPH	DPH	Spolu s DPH
1.	Cena za 1 hod. operatívneho servisu od 7:00 do 15:00	200	h	25.00 €	5 000.00 €	1 000.00 €	6 000.00 €
2.	Cena za 1 hod. operatívneho servisu od 15:00 do 7:00 a v sobotu	30	h	32.00 €	960.00 €	192.00 €	1 152.00 €
3.	Cena za 1 hod. operatívneho servisu vo sviatok a v nedeľu	30	h	45.00 €	1 350.00 €	270.00 €	1 620.00 €
4.	Servisná kontrola	100	kamera	35.00 €	3 500.00 €	700.00 €	4 200.00 €
5.	Odborná prehliadka a odborná skúška	50	kamera	75.00 €	3 750.00 €	750.00 €	4 500.00 €
6.	Prenájom montážnej plošiny výška do 12m	130	h	23.00 €	2 990.00 €	598.00 €	3 588.00 €
7.	Prenájom montážnej plošiny výška nad 12m	130	h	28.00 €	3 640.00 €	728.00 €	4 368.00 €
Tabuľka č. 5 spolu					21 190.00 €	4 238.00 €	25 428.00 €

VÝKAZ LOKÁLNY KAMEROVÝ SYSTÉM

Cenová tabuľka č. 6

PRÁCE							
P.č.	Názov	množ stvo	merná jednotka	Jednotková cena bez DPH	cena bez DPH	DPH	Spolu s DPH
1.	Pevná IP kamera s konzolou	10	ks	268.00 €	2 680.00 €	536.00 €	3 216.00 €
2.	NVR Systém	8	ks	291.00 €	2 328.00 €	465.60 €	2 793.60 €
3.	POE switch	10	ks	58.00 €	580.00 €	116.00 €	696.00 €
4.	Monitor k NVR	8	ks	170.00 €	1 360.00 €	272.00 €	1 632.00 €
5.	Kábel FTP	500	m	0.48 €	240.00 €	48.00 €	288.00 €
6.	Lišta na povrchové vedenie kabeláže 15x10mm	500	m	0.65 €	325.00 €	65.00 €	390.00 €
7.	Iný inšalačný materiál	8	súbor	20.00 €	160.00 €	32.00 €	192.00 €
8.	Práca (inštalácia, oživenie systému)	1	h	950.00 €	950.00 €	190.00 €	1 140.00 €
9.	Dokumentácia, zaškolenie obsluhy	8	prípad	100.00 €	800.00 €	160.00 €	960.00 €
Tabuľka č. 6 spolu					9 423.00 €	1 884.60 €	11 307.60 €

DS-2CD5A26G1-IZ(H)S 2 MP IR Varifocal Bullet Network Camera

DarkFighter



- 1/1.8" Progressive Scan CMOS
- 1920 × 1080 @ 60fps
- MJPEG up to 1920 × 1080 @ 30fps
- 2.8 to 12 mm/8 to 32 mm motorized lens
- Color: 0.002 Lux @ (F1.2, AGC ON), 0.004 Lux @ (F1.6, AGC ON), 0 Lux with IR
- H.265, H.265+, H.264, H.264+
- 140dB WDR
- 2.8 to 12 mm lens: IR range up to 50 m, 8 to 32 mm lens: IR range up to 100 m
- Alarm 2 inputs/2 outputs, audio 1 input/1 output, RS-485
- IP67, IK10
- 5 streams and up to 5 custom streams
- 6 behavior analyses, 2 exception detections, and face detection
- Built-in microSD/SDHC/SDXC card slot, up to 256 GB
- Metadata of intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, and object removal are supported.



Function

Smooth Streaming

Smooth streaming offers solutions to improve the video quality in different network conditions. For example, in poor network conditions, adapting to the detected real-time network condition, streaming bit rate and resolution are automatically adjusted to avoid mosaic and lower latency in live view; in multiplayer network conditions, the camera transmits the redundant data for the self-error correcting in back-end device, so that to solve the mosaic problem because of the packet loss and error rate.

Metadata

Metadata uses individual instances of application data or the data content. Metadata can be used for third-party application development.

Specifications

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON), 0.004 Lux @ (F1.6, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR cut filter
WDR	140 dB
Angle Adjustment	Bracket, pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type	Motorized lens, 2.8 to 12 mm and 8 to 32 mm optional
Aperture	2.8 to 12 mm: F1.2 to 2.5 8 to 32 mm: F1.6, Constant F1.6 throughout the zoom range
Focus	Auto, semi auto, manual
Auto-iris	P-iris
FOV	2.8 to 12 mm, horizontal FOV 103.3° to 38.6°, vertical FOV 54.2° to 21.9°, diagonal FOV 124.2° to 44.3° 8 to 32 mm, horizontal FOV 42.5° to 13.4°, vertical FOV 23.4° to 7.7°, diagonal FOV 49° to 15.3°
Lens Mount	Integrated
Illuminator	
IR Range	2.8 to 12 mm: up to 50 m; 8 to 32 mm: up to 100 m
Wavelength	850 nm
Video	
Max. Resolution	1920 × 1080
Video Stream	5 defined streams and up to 5 custom stream
Main Stream	50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 60fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub Stream	50Hz: 25fps (704 × 576, 640 × 480) 60Hz: 30fps (704 × 480, 640 × 480)
Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fifth Stream	50Hz: 25fps (704 × 576, 640 × 480) 60Hz: 30fps (704 × 480, 640 × 480)
Custom Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub stream/third stream/fourth stream/fifth stream/custom stream: H.265/H.264/MJPEG

H.264 Type	Baseline Profile/Main Profile/High Profile
H.264+	Main stream support
H.265 Type	Main Profile
H.265+	Main stream support
Video Bit Rate	32 Kbps to 16 Mbps
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Smart Feature-Set	
Smart Event	Line crossing detection, up to 4 lines configurable Intrusion detection, up to 4 regions configurable Region entrance detection, up to 4 regions configurable Region exiting detection, up to 4 regions configurable Unattended baggage detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Face detection: detects faces and upload images Scene change detection, defocus detection
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Statistics	Counting
Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, alarm output, Email
Region of Interest	Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed regions and dynamic face tracking for each stream
Image	
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, distortion correction
Image Setting	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser
Target Cropping	Yes
Day/Night Switch	Day/Night/Auto/Schedule/Triggered by Alarm In
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
SNR	≥52dB
Audio	
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/32Kbps(PCM)/8-320Kbps(MP3)
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Network	
Network Storage	microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS

API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, Ehome
Smooth Streaming	Yes
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 ONVIF, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, TLS1.0, TLS1.1
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome57.0+, Firefox52.0+
Interface	
Communication Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port, RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Audio	1 input (line in), 1 output (line out), 3.5 mm connector, mono
Alarm	2 inputs, 2 outputs (max. 24 VDC/VAC, 1A)
Video Out	1Vp-p composite output (75 Ω/CVBS), only for adjustment
Power Output	12 VDC, max. 200mA
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
General	
Firmware Version	5.6.0
Web Client Language	32 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)
Embedded Open Platform	Yes. The camera supports installation and running up to 4 extra applications.
General Function	Anti-flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter, HTTP listening
Reset	Reset via reset button on camera body, web browser and client software
Startup and Operating Conditions	-30 °C to 65 °C (-22 °F to 149 °F), -H: -40 °C to 65 °C (-40 °F to 149 °F) Humidity 95% or less (non-condensing)
Storage Conditions	-30 °C to 65 °C (-22 °F to 149 °F) Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 20%, two-core terminal block; reverse polarity protection, PoE (802.3at, class 4)

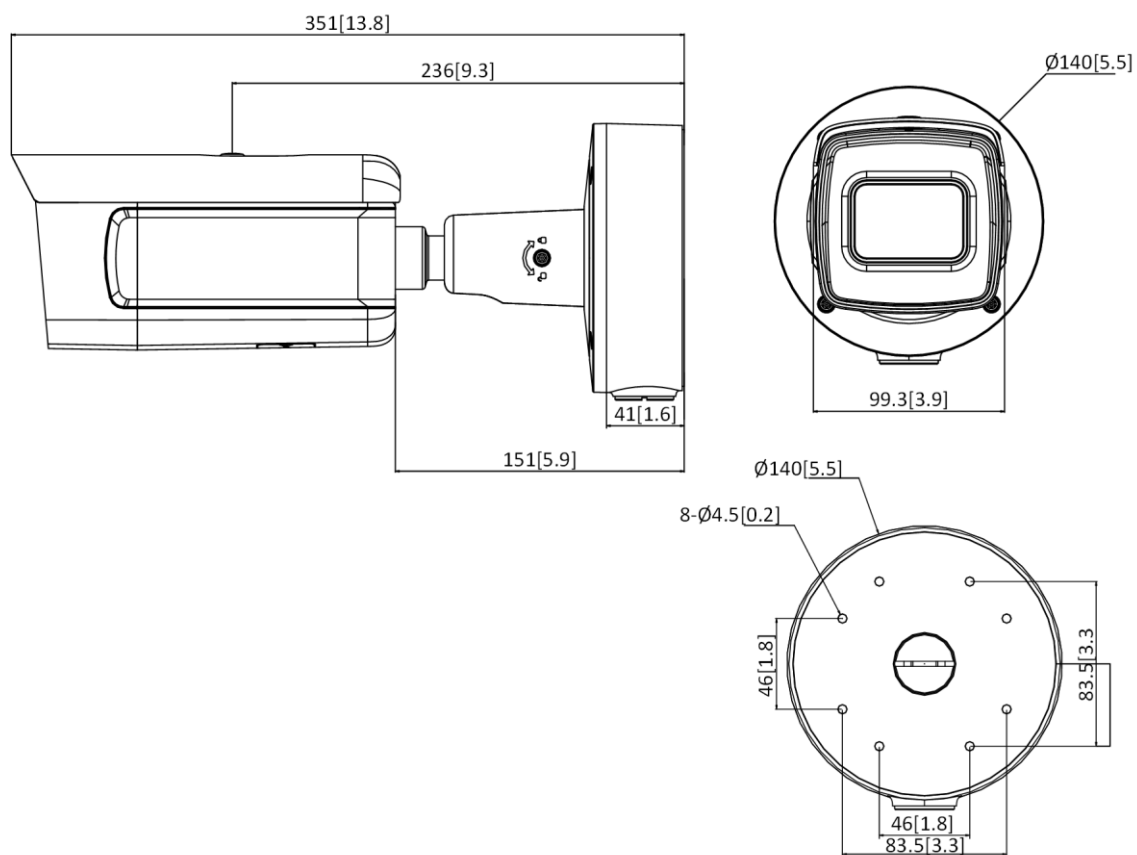
Power Consumption and Current	<p>-IZS: With extra load: 12 VDC, 1.28 A, max. 15.4 W; PoE (802.3at, 42.5 V to 57 V), 0.36 A to 0.27 A, max. 15.4 W; Without extra load: 12 VDC, 1.08 A, max. 13 W; PoE (802.3at, 42.5 V to 57 V), 0.31 A to 0.23 A, max. 13 W</p> <p>-IZHS: With extra load: 12 VDC, 1.33 A, max. 15.9 W; PoE (802.3at, 42.5 V to 57 V), 0.50 A to 0.37 A, max. 21.2 W; Without extra load: 12 VDC, 1.13 A, max. 13.5 W; PoE (802.3at, 42.5 V to 57 V), 0.42 A to 0.32 A, max. 18 W</p> <p>"With extra load" means that an extra device is connected to and powered by the camera.</p>
Heater	-H: yes
Material	Metal
Dimensions	<p>Camera: $\Phi 144 \times 347$ mm ($\Phi 5.7'' \times 13.7''$)</p> <p>With package: $405 \times 190 \times 180$ mm ($15.9'' \times 7.5'' \times 7.1''$)</p>
Weight	<p>Camera: approx. 1.85 kg (4.07 lb.)</p> <p>With package: approx. 2.95 kg (6.50 lb.)</p>
Approval	
EMC	47 CFR Part 15, Subpart B; EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014; AS/NZS CISPR 32: 2015; ICES-003: Issue 6, 2016; KN 32: 2015, KN 35: 2015
Safety	UL 60950-1, IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IS 13252(Part 1):2010+A1:2013+A2:2015
Chemistry	2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006
Protection	Ingress protection: IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)

* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

Available Model

DS-2CD5A26G1-IZS (2.8 to 12 mm), DS-2CD5A26G1-IZHS (2.8 to 12 mm), DS-2CD5A26G1-IZS (8 to 32 mm), DS-2CD5A26G1-IZHS (8 to 32 mm)

Dimension



Accessory



DS-1475ZJ-SUS
Vertical Pole Mount



DS-1476ZJ-SUS
Corner Mount

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DS-2CD5A26G1-IZ(H)S 2 MP IR Varifocal Bullet Network Camera

DarkFighter



- 1/1.8" Progressive Scan CMOS
- 1920 × 1080 @ 60fps
- MJPEG up to 1920 × 1080 @ 30fps
- 2.8 to 12 mm/8 to 32 mm motorized lens
- Color: 0.002 Lux @ (F1.2, AGC ON), 0.004 Lux @ (F1.6, AGC ON), 0 Lux with IR
- H.265, H.265+, H.264, H.264+
- 140dB WDR
- 2.8 to 12 mm lens: IR range up to 50 m, 8 to 32 mm lens: IR range up to 100 m
- Alarm 2 inputs/2 outputs, audio 1 input/1 output, RS-485
- IP67, IK10
- 5 streams and up to 5 custom streams
- 6 behavior analyses, 2 exception detections, and face detection
- Built-in microSD/SDHC/SDXC card slot, up to 256 GB
- Metadata of intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, and object removal are supported.



Function

Smooth Streaming

Smooth streaming offers solutions to improve the video quality in different network conditions. For example, in poor network conditions, adapting to the detected real-time network condition, streaming bit rate and resolution are automatically adjusted to avoid mosaic and lower latency in live view; in multiplayer network conditions, the camera transmits the redundant data for the self-error correcting in back-end device, so that to solve the mosaic problem because of the packet loss and error rate.

Metadata

Metadata uses individual instances of application data or the data content. Metadata can be used for third-party application development.

Specifications

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON), 0.004 Lux @ (F1.6, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR cut filter
WDR	140 dB
Angle Adjustment	Bracket, pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type	Motorized lens, 2.8 to 12 mm and 8 to 32 mm optional
Aperture	2.8 to 12 mm: F1.2 to 2.5 8 to 32 mm: F1.6, Constant F1.6 throughout the zoom range
Focus	Auto, semi auto, manual
Auto-iris	P-iris
FOV	2.8 to 12 mm, horizontal FOV 103.3° to 38.6°, vertical FOV 54.2° to 21.9°, diagonal FOV 124.2° to 44.3° 8 to 32 mm, horizontal FOV 42.5° to 13.4°, vertical FOV 23.4° to 7.7°, diagonal FOV 49° to 15.3°
Lens Mount	Integrated
Illuminator	
IR Range	2.8 to 12 mm: up to 50 m; 8 to 32 mm: up to 100 m
Wavelength	850 nm
Video	
Max. Resolution	1920 × 1080
Video Stream	5 defined streams and up to 5 custom stream
Main Stream	50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 60fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub Stream	50Hz: 25fps (704 × 576, 640 × 480) 60Hz: 30fps (704 × 480, 640 × 480)
Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fifth Stream	50Hz: 25fps (704 × 576, 640 × 480) 60Hz: 30fps (704 × 480, 640 × 480)
Custom Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub stream/third stream/fourth stream/fifth stream/custom stream: H.265/H.264/MJPEG

H.264 Type	Baseline Profile/Main Profile/High Profile
H.264+	Main stream support
H.265 Type	Main Profile
H.265+	Main stream support
Video Bit Rate	32 Kbps to 16 Mbps
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Smart Feature-Set	
Smart Event	Line crossing detection, up to 4 lines configurable Intrusion detection, up to 4 regions configurable Region entrance detection, up to 4 regions configurable Region exiting detection, up to 4 regions configurable Unattended baggage detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Face detection: detects faces and upload images Scene change detection, defocus detection
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Statistics	Counting
Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, alarm output, Email
Region of Interest	Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed regions and dynamic face tracking for each stream
Image	
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, distortion correction
Image Setting	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser
Target Cropping	Yes
Day/Night Switch	Day/Night/Auto/Schedule/Triggered by Alarm In
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
SNR	≥52dB
Audio	
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/32Kbps(PCM)/8-320Kbps(MP3)
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Network	
Network Storage	microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS

API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, Ehome
Smooth Streaming	Yes
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 ONVIF, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, TLS1.0, TLS1.1
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome57.0+, Firefox52.0+
Interface	
Communication Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port, RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Audio	1 input (line in), 1 output (line out), 3.5 mm connector, mono
Alarm	2 inputs, 2 outputs (max. 24 VDC/VAC, 1A)
Video Out	1Vp-p composite output (75 Ω /CVBS), only for adjustment
Power Output	12 VDC, max. 200mA
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
General	
Firmware Version	5.6.0
Web Client Language	32 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)
Embedded Open Platform	Yes. The camera supports installation and running up to 4 extra applications.
General Function	Anti-flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter, HTTP listening
Reset	Reset via reset button on camera body, web browser and client software
Startup and Operating Conditions	-30 °C to 65 °C (-22 °F to 149 °F), -H: -40 °C to 65 °C (-40 °F to 149 °F) Humidity 95% or less (non-condensing)
Storage Conditions	-30 °C to 65 °C (-22 °F to 149 °F) Humidity 95% or less (non-condensing)
Power Supply	12 VDC \pm 20%, two-core terminal block; reverse polarity protection, PoE (802.3at, class 4)

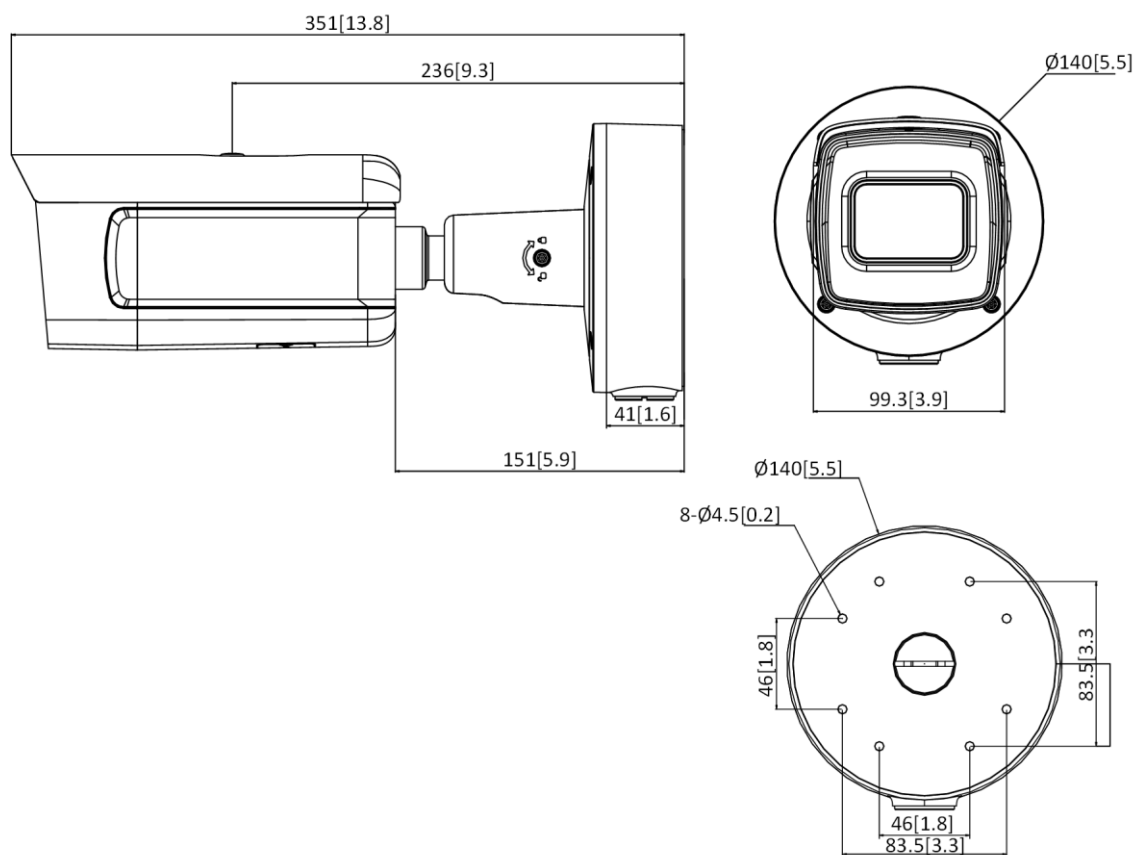
Power Consumption and Current	<p>-IZS: With extra load: 12 VDC, 1.28 A, max. 15.4 W; PoE (802.3at, 42.5 V to 57 V), 0.36 A to 0.27 A, max. 15.4 W; Without extra load: 12 VDC, 1.08 A, max. 13 W; PoE (802.3at, 42.5 V to 57 V), 0.31 A to 0.23 A, max. 13 W</p> <p>-IZHS: With extra load: 12 VDC, 1.33 A, max. 15.9 W; PoE (802.3at, 42.5 V to 57 V), 0.50 A to 0.37 A, max. 21.2 W; Without extra load: 12 VDC, 1.13 A, max. 13.5 W; PoE (802.3at, 42.5 V to 57 V), 0.42 A to 0.32 A, max. 18 W</p> <p>"With extra load" means that an extra device is connected to and powered by the camera.</p>
Heater	-H: yes
Material	Metal
Dimensions	<p>Camera: $\Phi 144 \times 347$ mm ($\Phi 5.7'' \times 13.7''$)</p> <p>With package: $405 \times 190 \times 180$ mm ($15.9'' \times 7.5'' \times 7.1''$)</p>
Weight	<p>Camera: approx. 1.85 kg (4.07 lb.)</p> <p>With package: approx. 2.95 kg (6.50 lb.)</p>
Approval	
EMC	47 CFR Part 15, Subpart B; EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014; AS/NZS CISPR 32: 2015; ICES-003: Issue 6, 2016; KN 32: 2015, KN 35: 2015
Safety	UL 60950-1, IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IS 13252(Part 1):2010+A1:2013+A2:2015
Chemistry	2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006
Protection	Ingress protection: IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)

* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

Available Model

DS-2CD5A26G1-IZS (2.8 to 12 mm), DS-2CD5A26G1-IZHS (2.8 to 12 mm), DS-2CD5A26G1-IZS (8 to 32 mm), DS-2CD5A26G1-IZHS (8 to 32 mm)

Dimension



Accessory



DS-1475ZJ-SUS
Vertical Pole Mount



DS-1476ZJ-SUS
Corner Mount

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DS-2CD5A46G1-IZ(H)S 4 MP IR Varifocal Bullet Network Camera

DarkFighter



- 1/1.8" Progressive Scan CMOS
- 2560 × 1440 @ 30fps
- MJPEG up to 1920 × 1080 @ 30fps
- 2.8 to 12 mm/8 to 32 mm motorized lens
- Color: 0.002 Lux @ (F1.2, AGC ON), 0.005 Lux @ (F1.8, AGC ON), 0 Lux with IR
- H.265, H.265+, H.264, H.264+
- 140dB WDR
- 2.8 to 12 mm lens: IR range up to 50 m, 8 to 32 mm lens: IR range up to 100 m
- Alarm 2 inputs/2 outputs, audio 1 input/1 output, RS-485
- IP67, IK10
- 5 streams and up to 5 custom streams
- 6 behavior analyses, 2 exception detections, and face detection
- Built-in microSD/SDHC/SDXC card slot, up to 256 GB
- Metadata of intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, and object removal are supported.



Function

Smooth Streaming

Smooth streaming offers solutions to improve the video quality in different network conditions. For example, in poor network conditions, adapting to the detected real-time network condition, streaming bit rate and resolution are automatically adjusted to avoid mosaic and lower latency in live view; in multiplayer network conditions, the camera transmits the redundant data for the self-error correcting in back-end device, so that to solve the mosaic problem because of the packet loss and error rate.

Metadata

Metadata uses individual instances of application data or the data content. Metadata can be used for third-party application development.

Specifications

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON), 0.005 Lux @ (F1.8, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR cut filter
WDR	140 dB
Angle Adjustment	Bracket, pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type	Motorized lens, 2.8 to 12 mm and 8 to 32 mm optional
Aperture	2.8 to 12 mm: F1.2 to 2.5 8 to 32 mm: F1.8, Constant F1.8 throughout the zoom range
Focus	Auto, semi auto, manual
Auto-iris	P-iris
FOV	2.8 to 12 mm, horizontal FOV 109.2° to 38.9°, vertical FOV 56.2° to 21.9°, diagonal FOV 134.5° to 45° 8 to 32 mm, horizontal FOV 37.7° to 15.2°, vertical FOV 21° to 8.6°, diagonal FOV 43.3° to 17.24°
Lens Mount	Integrated
Illuminator	
IR Range	2.8 to 12 mm: up to 50 m; 8 to 32 mm: up to 100 m
Wavelength	850 nm
Video	
Max. Resolution	2560 × 1440
Video Stream	5 defined streams and up to 5 custom stream
Main Stream	50Hz: 25fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 30fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25fps (704 × 576, 640 × 480) 60Hz: 30fps (704 × 480, 640 × 480)
Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fifth Stream	50Hz: 25fps (704 × 576, 640 × 480) 60Hz: 30fps (704 × 480, 640 × 480)
Custom Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub stream/third stream/fourth stream/fifth stream/custom stream: H.265/H.264/MJPEG

H.264 Type	Baseline Profile/Main Profile/High Profile
H.264+	Main stream support
H.265 Type	Main Profile
H.265+	Main stream support
Video Bit Rate	32 Kbps to 16 Mbps
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Smart Feature-Set	
Smart Event	Line crossing detection, up to 4 lines configurable Intrusion detection, up to 4 regions configurable Region entrance detection, up to 4 regions configurable Region exiting detection, up to 4 regions configurable Unattended baggage detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Face detection: detects faces and upload images Scene change detection, defocus detection
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Statistics	Counting
Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, alarm output, Email
Region of Interest	Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed regions and dynamic face tracking for each stream
Image	
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, distortion correction
Image Setting	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser
Target Cropping	Yes
Day/Night Switch	Day/Night/Auto/Schedule/Triggered by Alarm In
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
SNR	≥52dB
Audio	
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/32Kbps(PCM)/8-320Kbps(MP3)
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Network	
Network Storage	microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS

API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, Ehome
Smooth Streaming	Yes
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 ONVIF, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, TLS1.0, TLS1.1
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome57.0+, Firefox52.0+
Interface	
Communication Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port, RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Audio	1 input (line in), 1 output (line out), 3.5 mm connector, mono
Alarm	2 inputs, 2 outputs (max. 24 VDC/VAC, 1A)
Video Out	1Vp-p composite output (75 Ω/CVBS), only for adjustment
Power Output	12 VDC, max. 200mA
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
General	
Firmware Version	5.6.0
Web Client Language	32 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)
Embedded Open Platform	Yes. The camera supports installation and running up to 4 extra applications.
General Function	Anti-flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter, HTTP listening
Reset	Reset via reset button on camera body, web browser and client software
Startup and Operating Conditions	-30 °C to 65 °C (-22 °F to 149 °F), -H: -40 °C to 65 °C (-40 °F to 149 °F) Humidity 95% or less (non-condensing)
Storage Conditions	-30 °C to 65 °C (-22 °F to 149 °F) Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 20%, two-core terminal block; reverse polarity protection, PoE (802.3at, class 4)

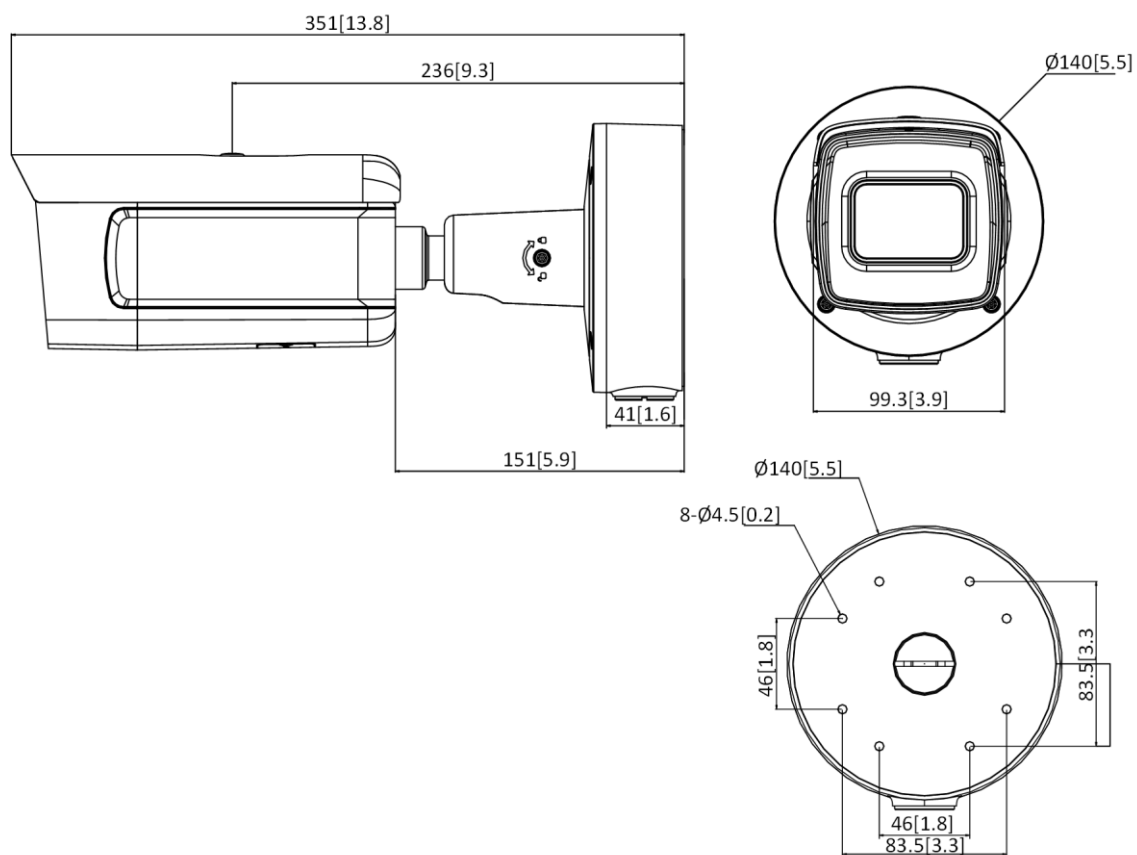
Power Consumption and Current	<p>-IZS: With extra load: 12 VDC, 1.28 A, max. 15.4 W; PoE (802.3at, 42.5 V to 57 V), 0.36 A to 0.27 A, max. 15.4 W; Without extra load: 12 VDC, 1.08 A, max. 13 W; PoE (802.3at, 42.5 V to 57 V), 0.31 A to 0.23 A, max. 13 W</p> <p>-IZHS: With extra load: 12 VDC, 1.33 A, max. 15.9 W; PoE (802.3at, 42.5 V to 57 V), 0.50 A to 0.37 A, max. 21.2 W; Without extra load: 12 VDC, 1.13 A, max. 13.5 W; PoE (802.3at, 42.5 V to 57 V), 0.42 A to 0.32 A, max. 18 W</p> <p>"With extra load" means that an extra device is connected to and powered by the camera.</p>
Heater	-H: yes
Material	Metal
Dimensions	<p>Camera: $\Phi 144 \times 347$ mm ($\Phi 5.7'' \times 13.7''$)</p> <p>With package: $405 \times 190 \times 180$ mm ($15.9'' \times 7.5'' \times 7.1''$)</p>
Weight	<p>Camera: approx. 1.85 kg (4.07 lb.)</p> <p>With package: approx. 2.95 kg (6.50 lb.)</p>
Approval	
EMC	47 CFR Part 15, Subpart B; EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014; AS/NZS CISPR 32: 2015; ICES-003: Issue 6, 2016; KN 32: 2015, KN 35: 2015
Safety	UL 60950-1, IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IS 13252(Part 1):2010+A1:2013+A2:2015
Chemistry	2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006
Protection	Ingress protection: IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)

* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

Available Model

DS-2CD5A46G1-IZS (2.8 to 12 mm), DS-2CD5A46G1-IZHS (2.8 to 12 mm), DS-2CD5A46G1-IZS (8 to 32 mm), DS-2CD5A46G1-IZHS (8 to 32 mm)

Dimension



Accessory



DS-1475ZJ-SUS
Vertical Pole Mount



DS-1476ZJ-SUS
Corner Mount

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PD1104Z2-EI

4 MP intelligent PTZ camera 36x zoom, IR

DESCRIPTION

The PD1104Z2-EI is a 4-megapixel IP outdoor PTZ dome camera without a bubble. A powerful high-grade 36x optical zoom lens ensures sharp and clear images over a wide range. The integrated IR illumination ensures crispy images over 200 m in no light conditions. The high-speed pan, tilt, and zoom mechanism and auto-focus give instantaneous and stable focused images. The camera is fitted with several intelligent features making video surveillance easy.

FEATURES

1/1.8 Progressive scan CMOS imager

4MP @ 60 fps

36x optical zoom, 16x digital zoom

400°/s preset speed

Integrated IR illumination up to 200 m

120 dB WDR (HDR)

Supports EIS, Defog, BLC, and HLC

Intelligent VCA, Auto tracking, AI

IP67 and vandal proof IK10

ONVIF Profile S and G conformant



Description

Multi-stream high definition

The integrated camera has multi-stream capability for simultaneous streaming of H.265, H.264 or MJPEG. Multiple combinations of resolutions and frame rates can be configured to satisfy different live viewing and recording scenarios.

Open standards

Multiple options are available to easily integrate the PD1104Z2-E to a video management system. In support of open standards, the PD1104Z2-E is compliant with a range of VMS's, it supports ONVIF (Profile S and G) and the Siquira API.

Power source choices

The PD1104Z2-E can be powered with 24 Vac or over the network with Hi-PoE sources. (802.3bt Type 3: max 60 W)

Image enhancement

A wide variety of features can be used to increase image quality and fluency such as high dynamic range (120 dB WDR), defog, BLC and HLC. With regional cropping, details can be seen in the image even with low bandwidth.

Built-in analytics

The camera features an extensive set of intelligent analytics, such as Object Abandoned, Object Removal, Face Detection, Audio Exception Detection, auto tracking, which assists the operator in detecting any anomalies and watching over your safety. Embedded deep-learning based object classification will reduce false alarms caused by leaves, shadows, grass, etc.

Camera

Image sensor	1/1.8" Progressive scan CMOS
Effective pixels	2560 1440 (16:9)
Min. illumination	0.002 lux Color, 0.0002 lux B/W (F/1.5, AGC on)
Shutter speed	1 to 1/30,000 sec
Day/Night	IR-cut filter
Lens	36x zoom
Focal length	5.7 (F/1.5) to 205.2 mm (F/4.5)
Horizontal field of view	59.8° (W) to 2.0° (T)
Minimum focus distance	10 mm (W) to 1500 mm (T)
Lens material	High-grade optical glass
IR illumination	850 nm
IR range	200 m

PTZ

Pan range	360° Continuous rotation
Tilt range	-20° to +90°
Number of presets	300
Preset speed	400°/s
Manual speed	0.1°/s to 350°/s Pan; 0.1°/s to 240°/s Tilt
Preset accuracy	0.225°
Features	Preset/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
Patrol Scan	8 patrols, up to 32 presets for each patrol
Body material	Aluminum alloy and ABS
Internal demister/heater	Standard

Image control

Dynamic range (WDR)	120 dB, HDR
White balance	Auto/Manual/ATW (Auto-tracking White Balance) /Indoor/Outdoor/ Fluorescent Lamp/Sodium Lamp
Image settings	Sharpness, Brightness, Contrast, Color, EV
SNR	Better than 50dB
Noise reduction	3DNR
Electronic Image Stabilization (EIS)	Yes
Image enhancement	HLC/BLC/Defog/Regional Exposure/Regional Focus
Digital zoom	16x
Picture overlay	Picture can be overlaid on video with 512x512 24-bit bmp format Text, date & time, compass
Privacy masks	24 programmable polygon privacy masks

Video

Video compression	H.265 (MP/+), H.264 (BP/MP/HP/+), MJPEG
Video bit rate	32 kbps to 16 Mbps

Specs



Video

Max resolution	2560x1440
Max frame rate	50/60 fps (120dB WDR= off)
Main Stream	
H.265/H.264/MJPEG @ 25/30 fps	2560x1440, 2048x1536, 1920x1080, 1280x960, 1280x720
H.265/H.264/MJPEG @ 50/60 fps	1920x1080, 1280x960, 1280x720
Sub Stream	
H.265/H.264/MJPEG @ 25/30 fps	704x576, 640x480, 352x288
Third stream	
H.265/H.264/MJPEG @ 25/30 fps	1920x1080, 1280x960, 1280x720, 704x576, 640x480, 352x288
Analog video output	PAL/NTSC (BNC on breakout cable)

Audio

Audio compression	G.711/G.722.1/G.726/MP2L2/PCM
Audio bit rate	64 kbps (G.711) / 16 kbps (G.722.1) / 16 kbps (G.726) / 32-160 kbps (MP2L2)
Environment noise filtering	Support
Audio Input	1x Mic in/Line in interface, 2-2.4Vpp 1k, 10%
Audio Output	1x Audio output interface Line level, impedance: 600
Audio sampling rate	16 kHz / 32 kHz / 44.1 kHz / 48 kHz

Digital I/O

Number of inputs	7, common ground
Number of outputs	2, galvanic isolated

Analytics

Behavior analytics	Line Crossing Detection, Loitering Detection, Object Abandoned, Object Removal Region Existing, Region Entrance, Audio Exception Detection
Face detection	supported
Auto tracking	Manual Tracking, Auto Tracking, Event Tracking (support tracking specified target types such as human and vehicle)

Network

Network storage	Micro SD/SDHC/SDXC up to 256 GB; NAS (Support NFS, SMBv1/CIFS)
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, DHCP, PPPoE, UDP, ICMP, DHCP, IGMP, SNMP v1/v2c/v3, ARP, Bonjour, Diamond
Security	3-level user authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering
Standard	ONVIF (Profile S, Profile G), PSIA, CGI, ISAPI, Siqua API
Web browser	IE 9, 10 and 11; limited support for Edge, Chrome, Firefox

Environmental

Ingress protection level	IP67
Impact protection	IK10
Overvoltage protection	Lightning Protection, Surge Protection and Voltage Transient Protection

Specs



Environmental

Ambient operating temperature	-40 °C to +65 °C (-40 °F to +149 °F),
Relative humidity	5 to 100%
Power supply	24 Vac 10%, 802.3bt Type 3 (Hi-PoE, 50 W)
Power consumption	Max. 60 W

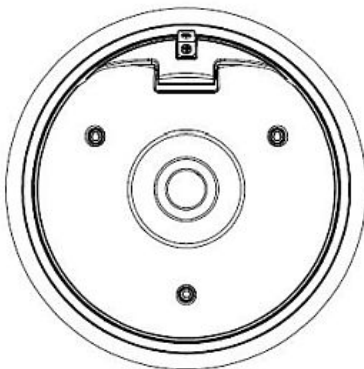
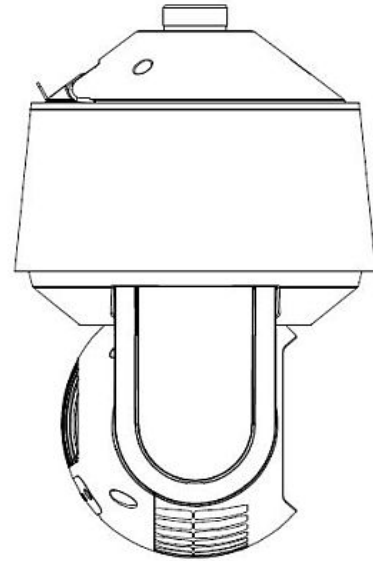
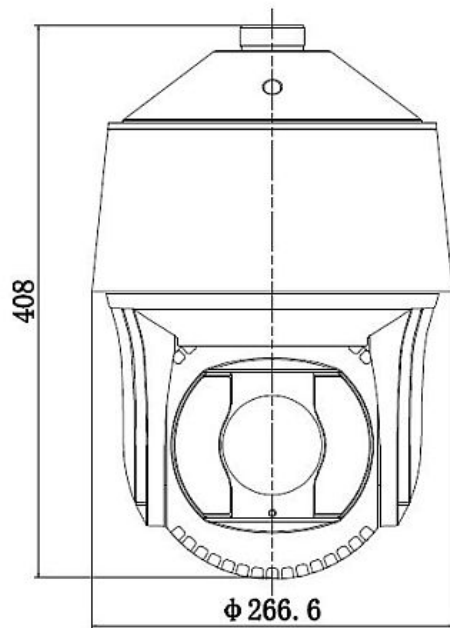
Mechanical

Interfaces	Break-out cable
Dimensions	diameter 266.6 x 410 mm
Weight	8 kg
Color	RAL 9003 (signal white)

Ordering information

PD1104Z2-EI	4 MP intelligent PTZ camera 36x zoom, IR
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DIMENSIONS IN MM



Unit:mm

PD1104Z2-E(I)
Accessories

CM11

Ceiling mount for PD1100 series


CM12

Ceiling mount for PD1100-series, 50 cm


CM15

Ceiling mount for PD1100-series, 25 cm


PM07

Pole and wall mount for PD1100 series


PM07B

Pole, wall and box mount for PD1100 series


PM08

Pole parapet mount for PD1100 series


WM12

Wall mount for PD1100 series


WM12B

Wall and box mount for PD1100 series


WM16

Gooseneck mount for PD1100 series


WM17

Corner and wall mount for PD1100 series


WM17B

Corner, wall and box mount for PD1100 series

RELATED



Siqura PTZ Dome Mounts
PTZ dome mounting accessories

DH-SD49225XA-HNR

2MP 25x Starlight IR WizSense Network PTZ Camera



WizSense

- 1/2.8" 2Megapixel CMOS
- Powerful 25x optical zoom
- Starlight technology
- Max. 50/60fps@1080P
- Perimeter protection
- Support PoE+
- IR distance up to 100m
- SMD PLUS
- IP66



Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

System Overview

Dahua PTZ WizSense network camera adopts advanced CNN deep learning algorithms to support Perimeter Protection with high accuracy. This camera possesses wide monitor range, PFA algorithm that can always present a clear, focused image while zooming. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for 6KV lightning rating, which provides effective protection for both the camera and its structure against lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

SMD PLUS

With Deep-Learning Algorithm, Dahua SMD PLUS filters the motion detection alarm triggered by non-concerned target and recognizes human and vehicle effectively, sending alarms when human and vehicle intrude.

Technical Specification

Camera

Image Sensor	1/2.8" STARVIS™ CMOS
Pixel	2MP
Max. Resolution	1920 (H) × 1080 (V)
ROM	4GB
RAM	1GB
Electronic Shutter Speed	1/1 s–1/30,000 s
Scanning System	Progressive
Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0.0005Lux@F1.6 0Lux@F1.6 (IR light on)
Illumination Distance	100 m (328.08 ft)
Illuminator On/Off Control	Zoom Prio/Manual/SmartIR
Illuminator Number	6

Lens

Focal Length	4.8 mm–120 mm			
Max. Aperture	F1.6–F4.4			
Field of View	H: 62.8°–2.6°; V: 33.2°–1.7°; D: 67.3°–3.9°			
Optical Zoom	25x			
Focus Control	Auto/Semi-Auto/Manual			
Close Focus Distance	0.1 m–1.5 m (0.33 ft–4.92 ft)			
Iris Control	Auto/Manual			
DORI Distance	Detect	Observe	Recognize	Identify
	1613 m (5291.99 ft)	646 m (2119.42 ft)	323 m (1059.71 ft)	161 m (528.22 ft)

PTZ

Pan/Tilt Range	Pan: 0°–360° (endless) Tilt: -15°–90° (auto flip 180°)
Manual Control Speed	Pan: 0.1°–200°/s Tilt: 0.1°–120°/s
Preset Speed	Pan: 240°/s Tilt: 200°/s
Presets	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Speed Adjustment	Support
Power-off Memory	Support
Idle Motion	Preset/Tour/Pattern/Scanning
Protocol	DH-SD Pelco-P/D (auto recognition)

General Intelligence

Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly
IVS	Object Abandoned/Missing

Artificial Intelligence

Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
SMD PLUS	Support
Face Detection	Support
Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.

Video

Compression	H.265+/H.265/H.264+/H.264/MJPEG (sub stream)
Streaming Capability	3 streams
Resolution	1080P (1920 × 1080); 1.3 M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Frame Rate	Main stream: 1080P/1.3 M/720P (1–50/60fps) Sub stream 1: D1/CIF (1–25/30fps) Sub stream 2: 1080P/1.3M/720P/D1/CIF (1–25/30fps)
Bit Rate Control	Variable/Constant
Bit Rate	H.265/H.264: 3 kbps–20480 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Support
WDR	120 dB
HLC	Support
White Balance	Auto/Indoor/Outdoor/Track/Manual/Sodium lamp/ Natural light/Street lamp
Gain Control	Auto/Manual
Noise Reduction	Ultra DNR (2D/3D)
Motion Detection	Support
Region of Interest (RoI)	Support
Image Stabilization	Electronic
Defog	Electronic
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas, and up to 8 areas in the same view

Audio

Compression	G.711a; G.711Mu; AAC; G.722.1; G.726; MPEG2-Layer2; G.729
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Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMPv1/v2c/v3(MIB-2); ARP; RTCP; RTSP; RTP; SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour; 802.1x

Interoperability	ONVIF Profile S&G&T; CGI
Streaming Method	Unicast/Multicast
User/Host	19
Storage	NAS; Local PC; Micro SD card (256G)
Browser	IE7 and newer versions Chrome 45 and newer versions Firefox 52 and earlier versions Safari (no version restrictions)
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS/Android

Certification

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL62368-1+CAN/CSA C22.2, No. 62368-1
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Port

Audio Input	1
Audio Output	1
Alarm I/O	2/1

Power

Power Supply	DC 12V/3A PoE+ (802.3at)
Power Consumption	13W 22W (IR on)

Environment

Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤95%
Protection	IP66; TVS 6000V lightning proof; Surge protection

Structure

Dimensions	Φ160 mm × 295 mm (6.30" × 11.61")
Net Weight	3 kg (6.61 lb)
Gross Weight	4.8kg (10.58lb)

Ordering Information

Type	Model	Description
2M WizSense PTZ Camera	DH-SD49225XA-HNR	2MP 25x Starlight IR WizSense Network PTZ Camera, WDR, PAL
	DH-SD49225XAN-HNR	2MP 25x Starlight IR WizSense Network PTZ Camera, WDR, NTSC
	SD49225XA-HNR	2MP 25x Starlight IR WizSense Network PTZ Camera, WDR, PAL
	SD49225XAN-HNR	2MP 25x Starlight IR WizSense Network PTZ Camera, WDR, NTSC

Accessories	PFB305W	Wall Mount Bracket
	PFA111	Mount Adapter
	DC12V/3A	Power Adapter
	PFA140	Power Box
	PFB300C	Ceiling Mount Bracket
	PFA120	Water-proof Junction Box
	PFA150	Pole Mount Bracket
	PFA151	Corner Mount Bracket
	PFB303S	Parapet Mount Bracket

Accessories

Included:



PFB305W
Wall Mount Bracket

Optional:



PFA111
Mount Adapter



DC12V/3A
Power Adapter



PFA140
Power Box



PFB300C
Ceiling Mount Bracket



PFA120
Water-proof Junction Box



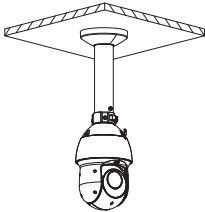
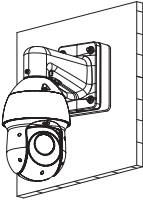
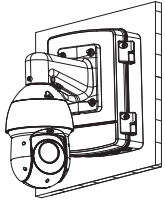
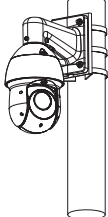
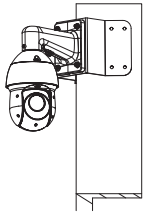
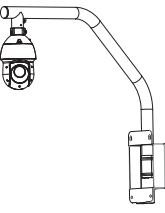
PFA150
Pole Mount Bracket



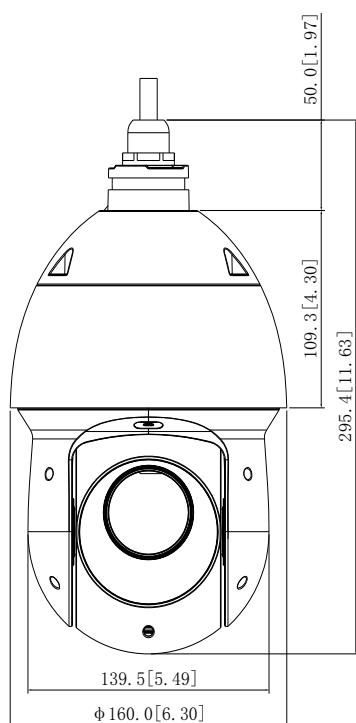
PFA151
Corner Mount Bracket



PFB303S
Parapet Mount Bracket

Ceiling Mount	Junction Mount	Power Box Mount
PFA111+PFB300C	PFB305W + PFA120	PFB305W + PFA140
		
Pole Mount	Corner Mount	Parapet Mount
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB303S
		

Dimensions (mm[inch])



BL2002LPR

LPR bullet camera, 8-32 mm motorized lens, 2MP, H.265/H.264

DESCRIPTION

The BL2002LPR is an intelligent 2-megapixel IP bullet camera with built-in LPR. The licence plate recognition uses of the latest AI algorithms ensuring the highest accuracy possible. The built-in IR illumination adapts to the lighting environment for the best and balanced exposure of the image up to 100 m. The long range 8 to 32 mm motorized autofocus lens allows for easy setup and ensures sharp and clear images. The camera has a wide range of intelligent video analytics features to detect numerous events. Intelligent video encoding ensures good image quality and low storage costs.

FEATURES

1/1.8 ultra-low light CMOS imager

2MP @ 60 fps (1920x1080)

Motorized zoom (8 - 32 mm)

AI: LPR, perimeter and exception detection

Multi-codec multi-stream: 6x H.265, H.264, MJPEG

140 dB triple exposure WDR

Built-in IR illuminator (100 m)

IP67, IK10

ONVIF Profile S and G



Description

License plate recognition

With an accuracy of 98% the BL2002LPR captures license plates in both day and night. It can create alarms for both white listed and black listed license plates. The camera can be used to read license plates in multiple lanes and in both directions. Instead of being a dedicated LPR cameras, the BL2002LPR can be used simultaneously as CCTV monitoring camera and perimeter intrusion detector.

Multi-encoder & multi-streaming

The camera is capable of simultaneous streaming 5 different H.265, H.264 and MJPEG streams. Streaming 2-megapixel full-HD (1920 x 1080) at 60 fps. Multiple combinations of resolution, frame rate, and encoding can be configured to satisfy different live viewing and recording scenarios.

High Efficiency Video Coding (HEVC)

H.265 or HEVC is a video compression standard, the successor of H.264. In comparison H.265 offers about double the compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate. Thus saving bandwidth and recording space.

ONVIF

Multiple options are available to easily integrate the BL2002LPR to a video management system. In support of open standards, the BL2002LPR is compliant with ONVIF (Profile S / Profile G).

Image enhancement

The BL2002LPR features a set of tools to enhance the image quality, such as smart IR, Defog, BLC and 3D noise reduction.

Ease of installation

The BL2002LPR is fitted with a built-in junction box to make installation easy and dismisses the need of an external junction box.

Camera

Image sensor	1/1.8" Ultra-low light CMOS
Lens	Motorized 8 to 32 mm, F/1.6
Focus	Autofocus, Semi-auto, manual
Field of view	42.5° to 13.4° horizontal,
Min. illumination	Color: 0.002 lux, B/W: 0.0004 lux (F/1.2 AGC ON)
Day/Night	IR-cut filter with auto switch
Built-in IR illuminator	Working distance: Up to 100 m
	Wavelength: 850 nm
WDR	140 dB
Shutter speed	1 s to 1/100,000 s
Slow shutter	Supported

Video

Video compression	H.265 MP, H.264 HP/MP/BP, MJPEG
Video bit rate	32 Kbps 16 Mbps
Max resolution	1920x1080 at 60 fps (704x576 @ 25/30fps for MJPEG)
Frame rate	25/30/50/60 fps
Number of simultaneous streams	10
- Main (H.265/H.264 60fps)	1920x1080, 1280x960, 1280x720
- Sub (H.265/H.264/MJPEG 25/30fps)	704x576, 640x480
- 3rd (H.265/H.264/MJPEG 25/30fps)	1920x1080, 1280x960, 1280x720, 704x576, 640x480
- 4th (H.265/H.264/MJPEG 25/30fps)	1920x1080, 1280x720, 704x576, 640x480
- 5th (H.265/H.264/MJPEG 25/30fps)	704x576, 640x480
- Cust. (H.265/H.264/MJPEG 25/30fps)	1920x1080, 1280x720, 704x576, 640x480
	listed max resolutions cannot work at the same time
Image enhancement	BLC, HLC, 3D DNR, EIS, Defog, Lens correction
Image setting	Rotate mode, saturation, brightness, contrast, sharpness
Day/Night switch	Auto/Scheduled/Triggered by Alarm In/Triggered by video
Video output	1 Vp-p; BNC (75)

Network

Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, SMTP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI
Security	3-level user authentication, 802.1x,, IP address filtering, digest authentication
API	ONVIF (Profile S, Profile G), Siquira Programming Interface
Communication interface	1x 10/100/1000 Base T/TX (RJ-45)

License Plate Recognition

Accuracy	Capture rate > 95%
Max Vehicle Speed	60 km/h
Detected Distance	7.2-28.9 meters
Blacklist/Whitelist	Max. 10,000 records

License Plate Recognition

Missing detection	Support
Direction Recognition	Support
Supported Country	Algeria, Angola, Argentina, Australia, Austria, Bahrain, Bolivia, Brazil, Burma, Cambodia, Canada, Chile, Colombia, Costa Rica, Croatia, Czech Republic, Dominica, Ecuador, Egypt, El Salvador, Ethiopia, France, Germany, Ghana, Greece, Guatemala, Hongkong, Hungary, Indonesia, Iraq, Ireland, Isreal, Italy, Ivory Coast, Jordan, Kenya, Kuwait, Kyrgyzstan, Laos, Lebanon, Macao, Macedonia, Malaysia, Mauritius, Mexico, Morocco, New Zealand, Nigeria, Oman, Pakistan, Panama, Paraguay, Peru, Philippines, Poland, Qatar, Russia, Saudi Arabia, Senegal, Sierra Leone, Singapore, Slovakia, South Africa, South Korea, Spain, Switzerland, Tanzania, Thailand, The Netherlands, Trinidad and Tobago, Tunisia, Turkey, Uganda, UK, United Arab Emirates(Abu Dhabi, Al fujayrah, Dubai, Ras Al Khaimah, Ajman, Sharjah, Umm al qaiwain), United States, Uruguay, Vietnam, Zambia, Zimbabwe

Intelligent Features

Line crossing detection	Cross a user-defined virtual line, unidirectional or bidirectional
Intrusion detection	Enter and loiter in a user-defined region
Region entrance	Enter a user-defined region
Region exiting	Exit from a user-defined region
Unattended baggage	Objects left in a user-defined region
Object removal	Objects removed from a user-defined region
Exception detection	Scene change detection, Defocus detection
Detection/Recognition	Face Detection, License Plate Recognition, Color detection**

Alarm I/O

Alarm trigger	Motion detection, Tampering alarm, Network disconnect, IP address conflict, illegal login, disk full, disk error, License plate in white or black list
Alarm in	2x input
Alarm out	2x output (up to 24 Vdc 1 A or 110 Vac 500 mA)

Storage

Networked storage	NAS (NFS, SMB/CIFS), ANR
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB

Powering

Power supply	12 Vdc 20% (terminal block), PoE (802.3at class 4)
Power consumption	1.2 A max, Max. 14 W

Environmental

Ingress protection level	IP67
Impact protection	IK10
Operating temperature	-30 °C to +60 °C (-22 °F to +140 °F) extened** -30 °C to +75 °C
Relative humidity	+5% to 100%

Housing

Specs



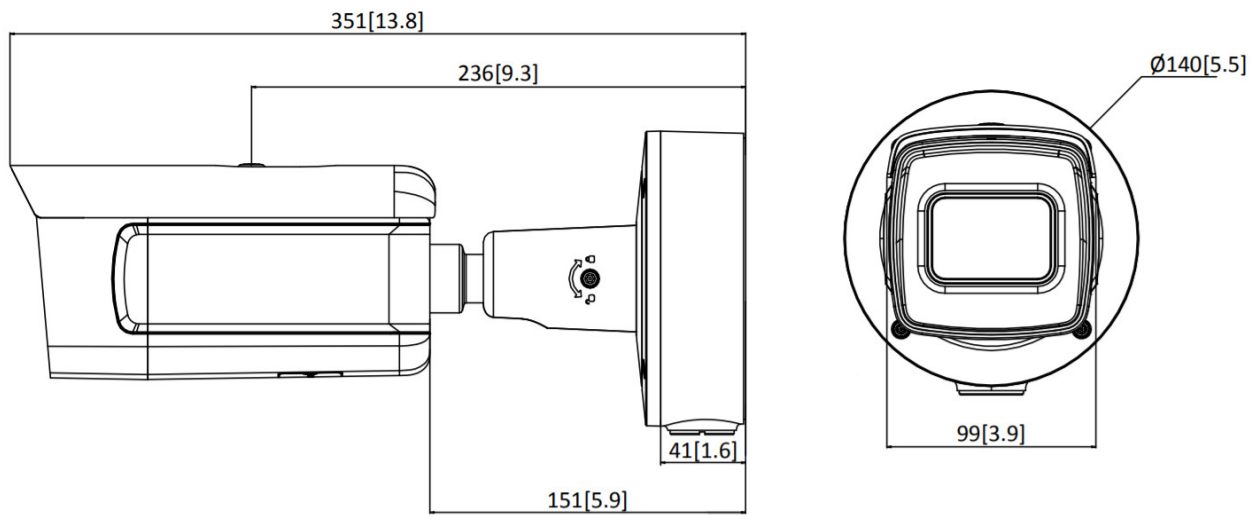
Housing

Material	Die cast aluminum
Dimensions	diameter 140 x 351 mm (5.5" x 13.8"), Package: 405 x 190 x 180 mm, (15.9" x 7.5" x 7.1")
Weight	Approx. 2.5 kg (5.51 lbs.) Package: 2.75 kg (6.06 lb.)
Color	RAL 9003 (signal white)

Ordering information

BL2002LPR	LPR bullet camera, 8-32 mm motorized lens, 2MP, H.265/H.264
BL2002LPRC**	LPR bullet camera, 8-32 mm motorized lens, 2MP, H.265/H.264, hardened. The date of sale will be specified

DIMENSIONS IN MM



RELATED



Siqura Fixed Camera Accessories

Mounting kits for fixed dome and bullet camera



Vega Smart HD - Vega Smart HD Color -

Automatic Number Plate Reader

▼ *The Vega Smart Line*

It is built over a highly performing base allowing outstanding scalability.

Optionals can be installed on demand.

Impressive capability to keep the device always updated.

▼ *Application*

- Toll collection
- Free Flow
- Traffic monitoring
- Security



Vega Smart 2HD

Free-Flow Tolling - Security

	SMART HD	SMART 2HD
Software features and Performance		
Lane Detected	2	
Max Speed Detected [km/h]	250	
Working Distance [m]	up to 25	
Detection	99%	
Reading	>95%	
OCR	ANPR engine on board	
2nd Lever OCR	optional	
Grabbing	75 fps	
Classification	optional	
Vehicle Color	NA	optional
Vehicle Maker	optional	
Vehicle Model	optional	
AES256	Yes	
SHA2	Yes	
Compression	JPG	
Streaming	NA	Color video streaming H.264 via standard protocol RTSP
Configuration		
Web Server	Installation and configuration by Web Server on board	
TCP/IP Server	Configuration and monitoring through TCP/IP protocol. (SDK provided)	
Date and Hour	Synchronization via NTP protocol, IEEE1588, GPS	
Software Update	Upgrading via Web Interface and SDK	
Data Transmission		
FTP	FTP Client to FTP Server mode for remote data transmission; Multiple IP servers addressable	
TCP/IP	Tattile TCP/IP open protocol; (SDK provided)	
Standard protocols	XML; SNMP; NTCIP; DATEX2; UTMCI; ONVIF; MODBUS	
Serial Port	Insulated RS485	

	SMART HD	SMART 2HD
Op. Mode		
Free Run	Continuous processing with automatic vehicle detection, even without plate.	
Triggered	Image capture and processing triggered by Ethernet command or digital signal	
System		
ANPR camera	5 MPX BW	
	5 MPx Color (Color Version)	
Context camera	NA	MegaPixel Color CMOS sensor
Illuminator	12 high power LEDs	
Lenses	C-Mount. Many focal lengths available.	
Operating System	Linux Operating System	
Digital i/o	6 Optoisolated input - 4 Relay Output – 1 Strobe output	
Connectors	Waterproof circular connector	
IP Protection	Waterproof IP68	
Ethernet	GigaBit Ethernet 10/100/1000	
Storage	uSD up to 128 GB	
	HD/SSD up to 1 TB	
GPS	Optional	
LTE	Optional	
WiFi (Easinstall)	Yes	
Technical Datas		
Operating & Storage Temperature	From -40° to +55° C	
Operating & Storage Humidity	From 10% to 90% non condensing	
Dimensions	290 x 127 x 235 mm (WxHxL)	
Weight [kg]	5.5	
Power supply voltage	24 Vdc	
Power consumption	50 W (max)	

Part Numbers

Vega Smart HD	
F01760	Smart HD
Vega Smart 2HD	
F01761	Smart 2HD
Vega Smart Color HD	
F01762	Smart Color HD



DS-2CD5A46G1-IZ(H)S 4 MP IR Varifocal Bullet Network Camera

DarkFighter



- 1/1.8" Progressive Scan CMOS
- 2560 × 1440 @ 30fps
- MJPEG up to 1920 × 1080 @ 30fps
- 2.8 to 12 mm/8 to 32 mm motorized lens
- Color: 0.002 Lux @ (F1.2, AGC ON), 0.005 Lux @ (F1.8, AGC ON), 0 Lux with IR
- H.265, H.265+, H.264, H.264+
- 140dB WDR
- 2.8 to 12 mm lens: IR range up to 50 m, 8 to 32 mm lens: IR range up to 100 m
- Alarm 2 inputs/2 outputs, audio 1 input/1 output, RS-485
- IP67, IK10
- 5 streams and up to 5 custom streams
- 6 behavior analyses, 2 exception detections, and face detection
- Built-in microSD/SDHC/SDXC card slot, up to 256 GB
- Metadata of intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, and object removal are supported.



Function

Smooth Streaming

Smooth streaming offers solutions to improve the video quality in different network conditions. For example, in poor network conditions, adapting to the detected real-time network condition, streaming bit rate and resolution are automatically adjusted to avoid mosaic and lower latency in live view; in multiplayer network conditions, the camera transmits the redundant data for the self-error correcting in back-end device, so that to solve the mosaic problem because of the packet loss and error rate.

Metadata

Metadata uses individual instances of application data or the data content. Metadata can be used for third-party application development.

Specifications

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON), 0.005 Lux @ (F1.8, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR cut filter
WDR	140 dB
Angle Adjustment	Bracket, pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type	Motorized lens, 2.8 to 12 mm and 8 to 32 mm optional
Aperture	2.8 to 12 mm: F1.2 to 2.5 8 to 32 mm: F1.8, Constant F1.8 throughout the zoom range
Focus	Auto, semi auto, manual
Auto-iris	P-iris
FOV	2.8 to 12 mm, horizontal FOV 109.2° to 38.9°, vertical FOV 56.2° to 21.9°, diagonal FOV 134.5° to 45° 8 to 32 mm, horizontal FOV 37.7° to 15.2°, vertical FOV 21° to 8.6°, diagonal FOV 43.3° to 17.24°
Lens Mount	Integrated
Illuminator	
IR Range	2.8 to 12 mm: up to 50 m; 8 to 32 mm: up to 100 m
Wavelength	850 nm
Video	
Max. Resolution	2560 × 1440
Video Stream	5 defined streams and up to 5 custom stream
Main Stream	50Hz: 25fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 30fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25fps (704 × 576, 640 × 480) 60Hz: 30fps (704 × 480, 640 × 480)
Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fifth Stream	50Hz: 25fps (704 × 576, 640 × 480) 60Hz: 30fps (704 × 480, 640 × 480)
Custom Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub stream/third stream/fourth stream/fifth stream/custom stream: H.265/H.264/MJPEG

H.264 Type	Baseline Profile/Main Profile/High Profile
H.264+	Main stream support
H.265 Type	Main Profile
H.265+	Main stream support
Video Bit Rate	32 Kbps to 16 Mbps
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Smart Feature-Set	
Smart Event	Line crossing detection, up to 4 lines configurable Intrusion detection, up to 4 regions configurable Region entrance detection, up to 4 regions configurable Region exiting detection, up to 4 regions configurable Unattended baggage detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Face detection: detects faces and upload images Scene change detection, defocus detection
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Statistics	Counting
Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, alarm output, Email
Region of Interest	Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed regions and dynamic face tracking for each stream
Image	
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, distortion correction
Image Setting	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser
Target Cropping	Yes
Day/Night Switch	Day/Night/Auto/Schedule/Triggered by Alarm In
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
SNR	≥52dB
Audio	
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/32Kbps(PCM)/8-320Kbps(MP3)
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Network	
Network Storage	microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS

API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, Ehome
Smooth Streaming	Yes
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 ONVIF, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, TLS1.0, TLS1.1
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome57.0+, Firefox52.0+
Interface	
Communication Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port, RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Audio	1 input (line in), 1 output (line out), 3.5 mm connector, mono
Alarm	2 inputs, 2 outputs (max. 24 VDC/VAC, 1A)
Video Out	1Vp-p composite output (75 Ω/CVBS), only for adjustment
Power Output	12 VDC, max. 200mA
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
General	
Firmware Version	5.6.0
Web Client Language	32 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)
Embedded Open Platform	Yes. The camera supports installation and running up to 4 extra applications.
General Function	Anti-flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter, HTTP listening
Reset	Reset via reset button on camera body, web browser and client software
Startup and Operating Conditions	-30 °C to 65 °C (-22 °F to 149 °F), -H: -40 °C to 65 °C (-40 °F to 149 °F) Humidity 95% or less (non-condensing)
Storage Conditions	-30 °C to 65 °C (-22 °F to 149 °F) Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 20%, two-core terminal block; reverse polarity protection, PoE (802.3at, class 4)

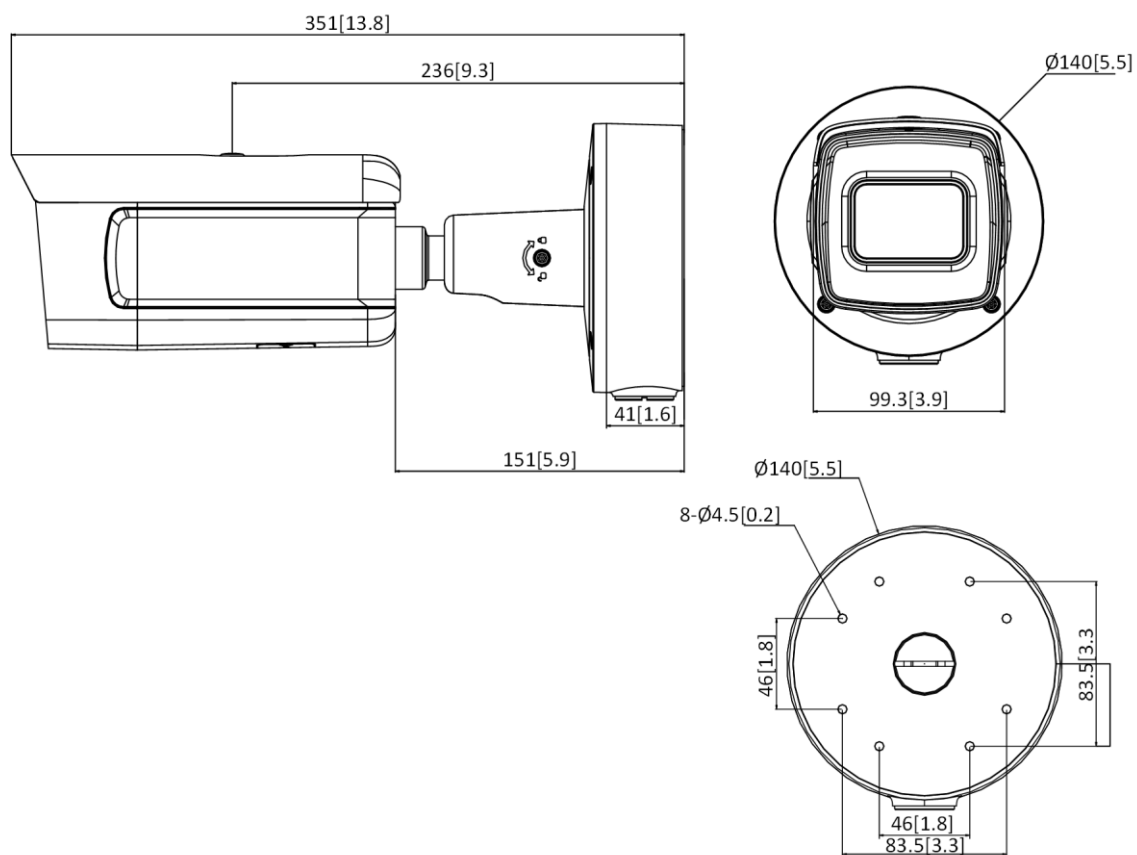
Power Consumption and Current	<p>-IZS: With extra load: 12 VDC, 1.28 A, max. 15.4 W; PoE (802.3at, 42.5 V to 57 V), 0.36 A to 0.27 A, max. 15.4 W; Without extra load: 12 VDC, 1.08 A, max. 13 W; PoE (802.3at, 42.5 V to 57 V), 0.31 A to 0.23 A, max. 13 W</p> <p>-IZHS: With extra load: 12 VDC, 1.33 A, max. 15.9 W; PoE (802.3at, 42.5 V to 57 V), 0.50 A to 0.37 A, max. 21.2 W; Without extra load: 12 VDC, 1.13 A, max. 13.5 W; PoE (802.3at, 42.5 V to 57 V), 0.42 A to 0.32 A, max. 18 W</p> <p>"With extra load" means that an extra device is connected to and powered by the camera.</p>
Heater	-H: yes
Material	Metal
Dimensions	<p>Camera: $\Phi 144 \times 347$ mm ($\Phi 5.7'' \times 13.7''$)</p> <p>With package: $405 \times 190 \times 180$ mm ($15.9'' \times 7.5'' \times 7.1''$)</p>
Weight	<p>Camera: approx. 1.85 kg (4.07 lb.)</p> <p>With package: approx. 2.95 kg (6.50 lb.)</p>
Approval	
EMC	47 CFR Part 15, Subpart B; EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014; AS/NZS CISPR 32: 2015; ICES-003: Issue 6, 2016; KN 32: 2015, KN 35: 2015
Safety	UL 60950-1, IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IS 13252(Part 1):2010+A1:2013+A2:2015
Chemistry	2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006
Protection	Ingress protection: IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)

* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

Available Model

DS-2CD5A46G1-IZS (2.8 to 12 mm), DS-2CD5A46G1-IZHS (2.8 to 12 mm), DS-2CD5A46G1-IZS (8 to 32 mm), DS-2CD5A46G1-IZHS (8 to 32 mm)

Dimension



Accessory



DS-1475ZJ-SUS
Vertical Pole Mount



DS-1476ZJ-SUS
Corner Mount

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PD920

3 MP high-speed PTZ camera with 40x zoom, SFP, IR

DESCRIPTION

The PD920 is a 3-megapixel IP outdoor PTZ camera. A powerful high-grade 40x optical zoom lens ensures sharp and clear images over a wide range. Built-in IR for zero lux operation. The high-speed pan, tilt, and zoom mechanism and auto-focus give instantaneous and stable focused images. Due to its unique servo feedback control the camera will always maintain its original (PT) position. When forced away from its original position the camera will return immediately. The PD920 Ethernet interface can be swapped from RJ45 supporting PoE or an empty SFP cage. The 100 Mb/s SFP offers a range of direct to fiber option, as well as connection direct to coax using the ECO-plug*.

FEATURES

1/2.8 inch Progressive scan CMOS imager

Quad stream H.264, H.265 and MJPEG

3MP @ 30 fps HDR, 40x optical zoom

Swappable 100 Mb SFP slot or RJ45

20° tilt above horizon without optical distortion

IEEE 802.1x, TACACS+ user authentication

NEMA TS-2

120 dB WDR (HDR)

Supports EIS

Built-in IR illumination up to 200 m

PT servo feedback

ONVIF Profile S, G, and T



Description

Preliminary product information

The PD920 is a 3MP intelligent IP outdoor high-speed PTZ camera with built-in IR-illumination and 40x optical zoom. The absence of the dome-cover eliminates problems like optical distortion, IR scattering, or sun glare due to dirt or water on the bubble.

PT Servo feedback

The PD920 pan and tilt motors are controlled by servo feed back, keeping track of the PTZ position at all times. No more drifting presets due to shocks, vibration or vandalism. When the head is forced from its position, it will return immediately.

Versatile SFP connection

The camera's interface can be swapped between a RJ45, supporting PoE, or an empty 100Mb SFP slot. With the SFP slot the camera can be connected either direct to fiber or to coax by using Siquira's unique ECO-plug for Ethernet-over-coax. For each solution Siquira can provide for a cost effective SFP module.

Multi-stream high definition

The integrated camera has multi-stream capability for simultaneous streaming of H.265, H.264 or MJPEG. Up to 4 combinations of resolutions and frame rates can be configured to satisfy different live viewing and recording scenarios.

Open standards

Multiple options are available to easily integrate the PD920 to a video management system. In support of open standards, the PD920 is compliant with a range of VMS's, it supports ONVIF (Profiles S, G, and T) and the Siquira API.

Power source choices

The PD920 can be powered with 24 Vac, 30 Vdc or over the network with Ultra-PoE sources. (UPoE: max 60W)

Camera	
Image sensor	1/2.8" Progressive scan CMOS
Effective pixels	2065x1553
Min. illumination	0.04 lux Color, 0.002 lux B/W (F/1.6)
Shutter speed	1 to 1/10,000 sec
Day/Night	IR-cut filter
Lens	40x zoom
IR Illumination	850 nm
IR illumination distance	200m
Iris	P-iris and auto-iris
Focal length	4.3mm to 170 mm (F/1.6)
Horizontal field of view	64° (W) to 1.6° (T)
Lens material	High-grade optical glass

PTZ	
Pan range	360° Continuous rotation
Tilt range	-20° to +90°
Number of presets	256
Preset speed	300°/s
Manual speed	0.1°/s to 90°/s Pan; 0.1°/s to 55°/s Tilt
Preset accuracy	0.16°
Features	Speed by zoom
Sequence Scan	8
Cruise Scan	8
Autopan	4
Body material	Aluminum alloy, ABS
Internal demister/heater	Standard

Image control	
Dynamic range (WDR)	120 dB, dual exposure HDR
White balance	Auto, ATW, Manual, One push
Image settings	Contrast Brightness Saturation Hue Sharpness
SNR	Better than 54dB
Noise reduction	3DNR, 2DNR, Color Low, mid, high (w/ Motion Compensation)
Image Stabilization	Yes (Digital)
Digital zoom	10x
Text and picture overlay	Compass, date & time, 4x line (40 characters each), preset title, image, image transparency
Privacy masks	16
Image rotation	90°, 180°, 270° rotation

Video	
Video compression	H.265, H.264 (main or high profile); MJPEG
Number of compression instances	Any combination of H.265 or H.264 streams with possibly

Specs



Video				
	one MJPEG stream.			
Supported resolutions	2065x1553 (3MP); 1080p30, 1280x1024; 720p30; 1024x768; 800x600; 720x576(D1); 640x480 (VGA); 352x288 (CIF)			
Max streaming (H264/H265/MJPEG)				
60fps	2048x1536	1280x720		
60fps	2048x1536	800x600	720x480	352x240
30fps	2048x1536	1920x1080	1280x1024	1280x1024
30fps (dual shutter WDR)	2048x1536	1920x1080	1280x1024	720x480
Compression bit rate control	Constant bit rate (CBR), variable bit rate (VBR), Low bit rate (LBR)			
Number of video output streams	Up to 20 (RTSP)			
Total output data rate (max)	60 Mb/s			
Video frame rate	1 to 60 fps, 1 to 50 fps			
Analog video output	PAL/NTSC (BNC)			

Audio	
Audio compression	G.711, G.726, AAC, LPCM
Audio Input	Line in
Audio Output	Line out

Data	
Serial port	RS-485, 2-wire
Protocols	Pelco D, Pelco P
Connector type	Terminal block

Analytics	
Loitering Detection*	Enter and loiter in a user-defined region
Intrusion Detection*	Enter in a user-defined region
Wrong Direction*	Cross a user-defined unidirectional or bidirectional
Event detections	Motion Detection, Audio detection*, Abandoned Object*, Object Removal*, Camera Sabotage*, Face detection with VDG*
Event Triggers	External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger
*Offer by request	
Autotracking	Support

Network	
Local storage	SDHC/SDXC up to 512 GB;
Network storage	NAS (Support NFS, SMB/CIFS)
Protocols	IPv4/IPv6 (ICMP), HTTP, HTTPS (TLS1.2), 802.1x, Qos, FTP, SMTP(SSL), UPnP, SNMP(v1/v2/v3/Traps), DNS, DDNS, NTP, RTSP, RTCP, RTP/UDP, TCP/IP, IGMP(v2/v3), DHCP, PPPoE, Pelco D (TCP/UDP), Diamond (TCP/UDP), NTCIP (TCP/UDP), TACACS+
Security	User authentication, TACACS+, Syslog, Digest authentication (RTSP, HTTP), HTTPS encryption (TLS1.2); IEEE 802.1x port-based network access control, IP filtering

Network

Standard	ONVIF (Profile S, Profile G, Profile T), Siqua API
Web browser	IE 9, 10 and 11; limited support for Edge, Chrome, Firefox
Network interface	10/100 Mb (RJ45) or empty SFP cage

Environmental

Ingress protection level	IP66
Impact rating casing	IK10
Overvoltage protection	Lightning Protection, Surge Protection and Voltage Transient Protection
Ambient temperature (NEMA TS-2)	-40 °C to +74 °C (-40 °F to +165 °F)
Relative humidity	5 to 100%
Power supply	30Vdc, 24 Vac, UPoE
Power consumption	Max. 48 W

Mechanical

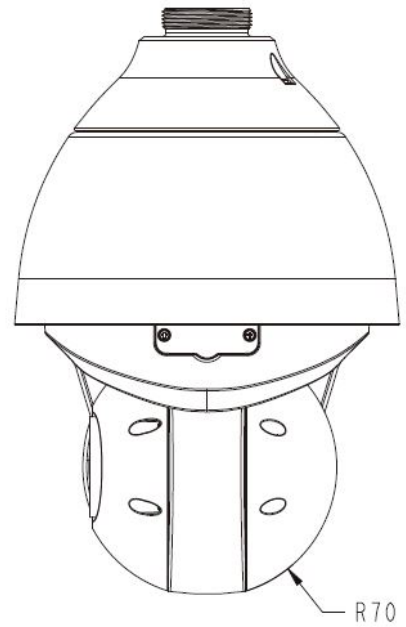
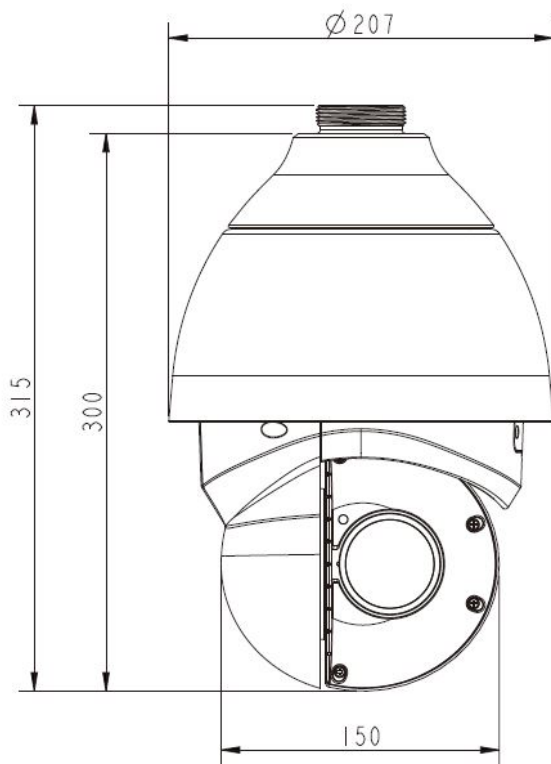
Interfaces	
- Ethernet	RJ45
- Alarm in / out	4x / 2x Terminal Block
- 24Vac/dc	Terminal Block
- Audio in / out	terminal Block
- Video out	BNC Connector
- RS485	Terminal Block
Dimensions	diameter 207.4 x 300.4 mm with Sunshield
Weight	3.8 kg
Color	RAL 9003 (signal white)

Ordering information

PD920	3 MP high-speed PTZ camera with 40x zoom, SFP, IR
WM12	Wall mount for PD110x and PD9x0 PTZ dome series
WM12B	Wall mount incl. junction box for PD110x and PD9x0 series
WM16	Gooseneck bracket for PD110x and PD9x0 PTZ dome series
WM17	Corner mount for PD110x and PD9x0 PTZ dome series
WM17B	Corner mount incl. junction box for PD110x and PD9x0 series
PM06	Pole mount for PD110x, PD1022, PD9x0 PTZ dome series
PM07	Pole mount for PD110x and PD9x0 PTZ dome series
PM07B	Pole mount incl. junction box for PD110x and PD9x0 series
PM08	Parapet wall mount for PD110x and PD9x0 PTZ dome series
PTM02	Bracket adapter for PD9x0 series
CM11	Ceiling mount for PD110x and PD9x0 PTZ dome series
CM12	Ceiling mount for PD110x and PD9x0 PTZ dome series, 50 cm
CM15	Ceiling mount for PD110x and PD9x0 PTZ dome series, 25 cm
ECO-plug SFP*	Ethernet over coax, SFP Module, 100Mb with accessory cable, 40cm
ECO-plug kit /40cm*	Ethernet over Coax 100Mb SFP Module, incl. 40cm cable

*The corresponding connection with ECO-plug will be provided separately.

DIMENSIONS IN MM



RELATED



Siqua PTZ Dome Mounts
PTZ dome mounting accessories



Siqua ECO-plug
Ethernet over Coax 100Mb SFP Module



Siqua SFP Module
SFP modules for Ethernet over fiber



Siqua XSNet 3300MC SFP
10/100/1000Base-TX to 100/1000Base FX SFP Media Converter



TKHSecuritySolutions XSNet S4124 SW SFP
24+4-Port Gigabit Ethernet Switches



Siqua XSNet 3100EoC
10/100/1000Base-TX Ethernet over Coax Adapter



Siqua XSNet 3100EoC
10/100/1000Base-TX Ethernet over Coax Adapter



Siqua XSNet C3100MC
Hardened 10/100Base-TX to 100Base FX Media Converter



Siqua XSNet 3200MC PoE+
10/100Base-TX PoE+ to 100Base FX SFP Media Converter



TKHSecuritySolutions XSNet C4104 SW
4-port + 2-port switch



Siqua XSNet C4108 SW
8+2-Port field-hardened Gigabit Ethernet switch

TKHSecuritySolutions XSNet S4104 SW
4 + 2-Port Fast Ethernet switch



Siqua XSNet S4108 SW
8+2-Port Gigabit Ethernet switch



Siqua XSNet C4208 SW PoE mk2
8+2-Port Gigabit Ethernet switches with PoE



TKHSecuritySolutions XSNet C6108 SW
8+4-Port field-hardened Gigabit Ethernet switch
