

BRATISLAVA

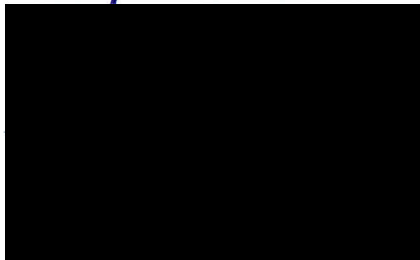
Príloha č. 2 - Návrh na plnenie kritéria
a výkazy výmer

Obchodné meno uchádzača:	MOREZ GROUP a.s.
Sídlo uchádzača:	Novozámocká 89, 94905 Nitra
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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	250 736,00 €	50 147,20 €	300 883,20 €

Som platiteľom DPH

V Nitre, dňa 11. 6.2021	podpis uchádzača
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VÝKAZ KAMERY MOREZ GROUP a.s.

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	20	200,00 €	40,00 €	240,00 €
2	Montáž a programovanie novej kamery s pripojením na server	50	ks	100	5 000,00 €	1 000,00 €	6 000,00 €
3	Inštalácia OR (plastová krabica s panelom do outdoor skrine)	50	ks	30	1 500,00 €	300,00 €	1 800,00 €
4	Zváranie v OR outdoor	30	ks	30	900,00 €	180,00 €	1 080,00 €
5	Inštalácia optického prevodníku	30	ks	30	900,00 €	180,00 €	1 080,00 €
6	Zatiahnutie optického kábla	3000	m	1	3 000,00 €	600,00 €	3 600,00 €
7	Inštalácia - Kruhový vodič 8 FeZn	1000	m	0,3	300,00 €	60,00 €	360,00 €
8	Inštalácia rozvodnice	30	ks	30	900,00 €	180,00 €	1 080,00 €
9	Inštalácia transformátora pre kameru	30	ks	5	150,00 €	30,00 €	180,00 €
10	Inštalácia PoE napájania s výstupom na optiku	30	ks	5	150,00 €	30,00 €	180,00 €
11	Zatiahnutie elektrického kábla	1000	m	0,1	100,00 €	20,00 €	120,00 €
12	Krimpovanie konektorov RJ45	30	ks	0,2	6,00 €	1,20 €	7,20 €
13	Zatiahnutie štruktúrovaného kábla	1000	m	0,1	100,00 €	20,00 €	120,00 €
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	2	100,00 €	20,00 €	120,00 €
16	Statický posudok na stĺp (verejného osvetlenia, trolejového vedenia)	50	ks	100	5 000,00 €	1 000,00 €	6 000,00 €
17	Východzia odborná skúška	30	ks	50	1 500,00 €	300,00 €	1 800,00 €
18	Projektová dokumentácia + inžinierska činnosť	30	ks	50	1 500,00 €	300,00 €	1 800,00 €
19	Ostatné poskytnuté práce pre inštaláciu kamery (paušál)	30	ks	50	1 500,00 €	300,00 €	1 800,00 €
20	Križovanie trolejového vedenia (spolupráca s DPB a.s., Vypnutie TV, práca v noci, prenájom izolovanej plošiny s osádkou)	5	ks	650	3 250,00 €	650,00 €	3 900,00 €
21	Geodetické zameranie	30	súbor	100	3 000,00 €	600,00 €	3 600,00 €
Tabuľka č. 1 spolu					30 556 €	6 111 €	36 667 €

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 PD1104Z2-EI	10	ks	1990	19 900,00 €	3 980,00 €	23 880,00 €
2	2.1.2 IP PTZ kamera typ 2 PD 900	10	ks	1750	17 500,00 €	3 500,00 €	21 000,00 €
3	2.1.3 IP PTZ kamera typ 3 PD1022	5	ks	720	3 600,00 €	720,00 €	4 320,00 €
4	2.1.4 IP pevná kamera typ 1 BL2002LPR	5	ks	780	3 900,00 €	780,00 €	4 680,00 €
5	2.1.5 IP pevná kamera typ 2 Tattile F01757 + LIC 00019 Brand Color and Classification Software for Vega1	5	ks	3250	16 250,00 €	3 250,00 €	19 500,00 €
6	2.1.6 IP pevná kamera typ 3 IPW-2325IQ-28SZ	5	ks	250	1 250,00 €	250,00 €	1 500,00 €
7	2.1.7 IP pevná kamera typ 4 BL2005M1-EI	5	ks	320	1 600,00 €	320,00 €	1 920,00 €
8	2.1.8 IP pevná kamera typ 5 IPW-2125IQ-40SA	4	ks	180	720,00 €	144,00 €	864,00 €
9	2.1.9 IP pevná kamera typ 6 IPW-2125IQ-40SA	1	ks	180	180,00 €	36,00 €	216,00 €
10	Skriňa (napr. Schneider Sarel Thalassa PLM (530x430x200), IP66	50	ks	50	2 500,00 €	500,00 €	3 000,00 €
11	Optická dome spojka pre min 24 vlákien na stĺp	35	ks	50	1 750,00 €	350,00 €	2 100,00 €
12	Optická spojka - kazeta do zeme pre min 24 vlákien	20	ks	20	400,00 €	80,00 €	480,00 €

13	Optický rozvádzač, Outdoor prevedenie	50	ks	50	2 500,00 €	500,00 €	3 000,00 €
14	Vonkajší dome box -optická spojka pre 24 vlákien s ochranou spojov	65	ks	30	1 950,00 €	390,00 €	2 340,00 €
15	Ochrana zvaru, zmršťovacia	30	ks	1	30,00 €	6,00 €	36,00 €
16	Kazeta pre OR	30	ks	10	300,00 €	60,00 €	360,00 €
17	Držiak zvarov pre kazetu do OR	30	ks	5	150,00 €	30,00 €	180,00 €
18	Patchkabel SM SC/PC duplex 1m	30	ks	5	150,00 €	30,00 €	180,00 €
19	Adaptér SC/PC DUPLEX, pre OR	30	ks	5	150,00 €	30,00 €	180,00 €
20	Pigtail SC, SM, 1,5m SCPC901.5	30	ks	5	150,00 €	30,00 €	180,00 €
21	Optický modul LC konektorom pre single-mode komunikáciu o prenosovej rýchlosti 100 Mbps. Dosiahnutá vzdialenosť je 20 km	30	ks	45	1 350,00 €	270,00 €	1 620,00 €
22	Optický modul LC konektorom pre single-mode komunikáciu o prenosovej rýchlosti 100 Mbps. Dosiahnutá vzdialenosť je 20 km protikus	30	ks	45	1 350,00 €	270,00 €	1 620,00 €
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	10	300,00 €	60,00 €	360,00 €
26	PoE zdroj s výstupom na optiku SM	30	ks	20	600,00 €	120,00 €	720,00 €
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	25	250,00 €	50,00 €	300,00 €
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	50	250,00 €	50,00 €	300,00 €
29	Prepäťová ochrana	65	ks	3	195,00 €	39,00 €	234,00 €
30	Elektrický kábel CYKY 3x2,5	100	m	1	100,00 €	20,00 €	120,00 €
31	Elektrický kábel CMSM 3Jx1,5	100	m	1	100,00 €	20,00 €	120,00 €
32	Istič 6A char.B	30	ks	3	90,00 €	18,00 €	108,00 €
33	FTP cat5e indoor	50	m	0,8	40,00 €	8,00 €	48,00 €
34	FTP cat5e outdoor	100	m	1	100,00 €	20,00 €	120,00 €
35	Konektor RJ45	50	ks	0,5	25,00 €	5,00 €	30,00 €
36	Optický kábel , 24vl SM., zafukovací	500	m	1,5	750,00 €	150,00 €	900,00 €
37	Optický kábel , 16vl SM., zafukovací	500	m	1,2	600,00 €	120,00 €	720,00 €
38	Optický kábel závesný 24 vl SM samonosný	1000	m	1,5	1 500,00 €	300,00 €	1 800,00 €
39	Optický kábel závesný 16 vl SM samonosný	1000	m	1,2	1 200,00 €	240,00 €	1 440,00 €
40	Trubka ohybná PSM-E-MF	250	m	0,6	150,00 €	30,00 €	180,00 €
41	Trubka pancierová Ø 32	250	m	1,2	300,00 €	60,00 €	360,00 €
42	Držiak káblovej rezervy na stožiar	100	ks	5	500,00 €	100,00 €	600,00 €
43	Závesný hák samonosného kábla na stĺp	30	ks	2	60,00 €	12,00 €	72,00 €
44	Závesný hák samonosného kábla na budovu	30	ks	2	60,00 €	12,00 €	72,00 €
45	Podpera vedenia na ploché strechy dvojbodová - PV 21 beton/plast - 1,0kg	100	ks	1	100,00 €	20,00 €	120,00 €
46	Kruhový vodič 8 FeZn	1000	m	0,2	200,00 €	40,00 €	240,00 €
47	Pripojovacie svorky jednostranné so svorkou KS	50	ks	0,2	10,00 €	2,00 €	12,00 €
48	Trubka priem 20 UV stabilná	100	m	0,5	50,00 €	10,00 €	60,00 €
49	príchytky na stenu pre trubku UV stabilnú	100	ks	1	100,00 €	20,00 €	120,00 €
50	príchytky na stĺp pre trubu UV stabilnú	100	ks	1	100,00 €	20,00 €	120,00 €

Tabuľka č. 2 spolu

87 960 €

17 592 €

105 552 €

MOREZ GROUP a.s.

VÝKAZ VDG SENSE MOREZ GROUP a.s.

Cenová tabuľka č. 3

PRÁCE							
P.č.	Názov	predpokladané množstvo	merná jednotka	jednotková cena bez DPH	cena bez DPH	DPH	cena spolu
1.	Konfigurácia Sense servera	1	ks	1 000,00 €	1 000,00 €	200,00 €	1 200,00 €
2.	Konfigurácia Sense pracovnej stanice	10	ks	500,00 €	5 000,00 €	1 000,00 €	6 000,00 €
3.	Ostatné práce	10	h	50,00 €	500,00 €	100,00 €	600,00 €
Tabuľka č. 3 spolu					6 500,00 €	1 300,00 €	7 800,00 €

Cenová tabuľka č. 4

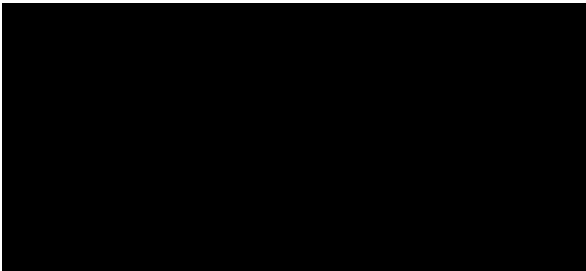
VDG SENSE Hardware							
P.č.	Názov	predpokladané množstvo	merná jednotka	jednotková cena bez DPH	cena bez DPH	DPH	cena spolu
1.	Server - VDG Video server						
1.1	NVH-2608XR Video server 19", xeon, 2U, SSD, 8-port, HS RAID, RPSU (min. konfigurácii)	1	ks	3 250,00	3 250,00	650,00	3 900,00
1.2	NVH-2608XRD Video server 19", dual xeon, 2U, SSD, 8-port, HS RAID, RPSU	1	ks	6 100,00	6 100,00	1 220,00	7 320,00
1.5	Extra 100/1000Mbps LAN interface	4	ks	50,00	200,00	40,00	240,00
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 WD Purple Int. Disk 8 TB 3,5"/7200Rpm/256MB/SATA3/26mm (WD82PURZ)	16	ks	310,00	4 960,00	992,00	5 952,00
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 WD Purple Int. Disk 10 TB 3,5"/7200Rpm/256MB/SATA3/26mm (WD102PURZ)	16	ks	380,00	6 080,00	1 216,00	7 296,00
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 WD Purple Int. Disk 12 TB 3,5"/7200Rpm/256MB/SATA3/26mm (WD121PURZ)	8	ks	505,00	4 040,00	808,00	4 848,00
2.	Pracovná stanica - VDG Video client						
2.1	NVH-1001 Compact, i5, SSD, 1TB HDD (min. v konfigurácii)	2	ks	1 250,00	2 500,00	500,00	3 000,00
2.2	NVH-1101 Video client, i7, SSD (desktop/tower)	8	ks	1 560,00	12 480,00	2 496,00	14 976,00
2.5	NVH-QUAD Quad mini display port/DVI-D output	8	ks	450,00	3 600,00	720,00	4 320,00
3	Monitor 1 27" Full HD LED, 1920x1080, 24/7,VGA,DVI,HDMI,DP + kabel pre pripojenie k PC (min. 2 m) BenQ GL2780 27-Inch 1080p 1ms 75Hz LED Gaming Monitor https://www.benq.eu/en-eu/monitor/gaming/gl2780.html	16	ks	180,00	2 880,00	576,00	3 456,00
4	Monitor 2 55" Full HD LED, 1920x1080, 24/7,VGA,DVI,HDMI, kabel pre pripojenie k PC (min. 2 m) 55" LED NEC E657Q,3840 x 2160,VA,16/7,350cd , https://www.nec-display.com/ap/en_display/e657q/index.html	6	ks	850,00	5 100,00	1 020,00	6 120,00
4	Monitor 3 60" Full HD LED, 1920x1080, 24/7,VGA,DVI,HDMI,DP kabel pre pripojenie k PC (min. 2 m) 65" LED NEC E657Q,3840 x 2160,VA,16/7,350cd https://www.nec-display.com/ap/en_display/e657q/index.html	6	ks	1 200,00	7 200,00	1 440,00	8 640,00
Tabuľka č. 4 spolu					58 390 €	11 678 €	70 068 €

MOREZ GROUP a.s.

VÝKAZ SERVIS MOREZ GROUP a.s.

Cenová tabuľka č. 5

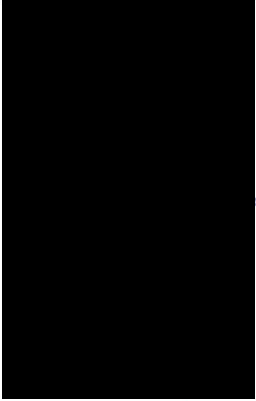
PRÁCE							
P.č.	Názov	predpokladané množstvo	m.j.	jednotková cena bez DPH	cena bez DPH	DPH	Spolu s DPH
1.	Cena za 1 hod. operatívneho servisu od 7:00 do 15:00	200	h	60,00	12 000,00	2 400,00	14 400,00
2.	Cena za 1 hod. operatívneho servisu od 15:00 do 7:00 a v sobotu	30	h	70,00	2 100,00	420,00	2 520,00
3.	Cena za 1 hod. operatívneho servisu vo sviatok a v nedeľu	30	h	80,00	2 400,00	480,00	2 880,00
4.	Servisná kontrola	100	kamer	200,00	20 000,00	4 000,00	24 000,00
5.	Odborná prehliadka a odborná skúška	50	kamer	300,00	15 000,00	3 000,00	18 000,00
6.	Prenájom montážnej plošiny výška do 12m	130	h	30,00	3 900,00	780,00	4 680,00
7.	Prenájom montážnej plošiny výška nad 12m	130	h	40,00	5 200,00	1 040,00	6 240,00
Tabuľka č. 5 spolu					60 600,00	12 120,00	72 720,00



MOREZ GROUP a.s.VÝKAZ LOKÁLNY KAMEROVÝ SYSTÉM

Cenová tabuľka č. 6

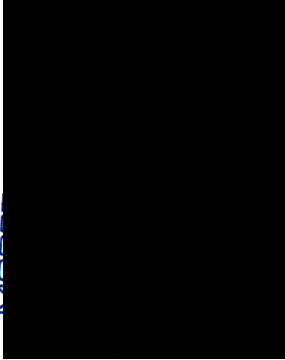
PRÁCE							
P.č.	Názov	množstvo	merná jednotka	jednotková cena bez DPH	cena bez DPH	DPH	Spolu s DPH
1.	Pevná IP kamera s konzolou: IPC-HFW2231S-S-0360B-S2 + PFA134 Parametre: 2 Mpx kompaktná IP Starlight kamera, exteriérová, Day/Night, Smart IR prísvit s dosvitom 30 m, 1/2.8" 2Megapixel progressive CMOS, rozlíšenie 1920 x 1080 px, snímkovanie 25/30 fps, citlivosť 0,002 lx @ F1.6, pevný objektív 3,6 mm, uhol záberu: H: 87°, V: 46°, D: 104°, AWB, WDR 120 dB, AGC, 3D DNR, HLC, BLC, kompresia H.265 / H.265+ / H.264 / H.264+ / H.264B / MJPEG, ONVIF kompatibilné, RS-485 rozhranie, slot na MicroSD kartu max. 256 GB, pracovná teplota od -40 °C do +60 °C, IP 67, napájanie 12 V DC / PoE (802.3af), spotreba < 4,9 W, 408 mA, rozmery ø 70,0 x 166,2 mm, hmotnosť 0,48 kg	10	ks	82,00 €	820,00 €	164,00 €	984,00 €
2.	NVR Systém: NVR2104-4KS2 Parametre: Videorekordér IP sieťový 4kanálový, OS Linux, Dual-core processor, podporované formáty Smart H.265/H.264, záznam max. 80 Mbps, maximálne rozlíšenie 8 Mpx na kameru, max. zobrazenie 1x 8 Mpx, 4x 2 Mpx kamier, 1x SATA II HDD max. 6 TB (bez HDD), 1x HDMI + 1x VGA výstup, podpora ONVIF, podpora IP PTZ Dahua, 1x RJ-45, 2x USB 2.0, 12 V DC / 2 A, rozmery Smart 1U, 204,6 x 204,6 x 45,6 mm, hmotnosť 0,45 kg + HDD1000S 24/7 sata disk	8	ks	150,00 €	1 200,00 €	240,00 €	1 440,00 €



3.	POE switch PFS3006-4ET-60 Parametre: Dahua nemenežovateľný 4portový PoE switch, 4x 10/100 Mbps Base-T + 2x 100 Mbps uplink, port 1 s podporou Hi-PoE <60 W, porty 2-4 <30 W, 4x PoE (IEEE802.3), podpora PoE na vzdialenosť 250 metrov, celkovo na všetky porty max. 60 W, ochrana pred prepätím 2 kV, duálne napájanie 48-57 V DC, pracovná teplota od -10 °C do +55 °C, rozmery 130 x 85 x 26 mm, hmotnosť 0,29 kg	10	ks	39,00 €	390,00 €	78,00 €	468,00 €
4.	Monitor k NVR LM24-F200 CCTV Parametre: LED monitor Dahua 24" (16:9), prispôsobený pre použitie 24 hodín / 7 dní v týždni, 16,7 miliónov farieb (8 bit), rozlíšenie 1920 x 1080 px @ 60 Hz, jas 250 cd/m2, odozva 6,5 ms, kontrast 1000:1, pozorovací uhol 178° / 178° (vertikálne / horizontálne), uchytienie VESA 100 x 100 mm, vstupy: 1x VGA, 1x HDMI, 1x výstup audio, spotreba max. 23 W, hmotnosť 4,5 kg, rozmery 540 x 425 x 175 mm	8	ks	140,00 €	1 120,00 €	224,00 €	1 344,00 €
5.	Kábel FTP	500	m	1,00 €	500,00 €	100,00 €	600,00 €
6.	Lišta na povrchové vedenie kabeláže 15x10mm	500	m	1,00 €	500,00 €	100,00 €	600,00 €
7.	Iný inštalačný materiál	8	súbor	50,00 €	400,00 €	80,00 €	480,00 €
8.	Práca (inštalácia, oživenie systému)	1	h	1 000,00 €	1 000,00 €	200,00 €	1 200,00 €
9.	Dokumentácia, zaškolenie obsluhy	8	případ	100,00 €	800,00 €	160,00 €	960,00 €
Tabuľka č. 6 spolu					6 730,00 €	1 346,00 €	8 076,00 €

MOREZ GROUP a.s.VÝKAZ LOKÁLNY KAMEROVÝ SYSTÉM

Cenová tabuľka č. 6



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

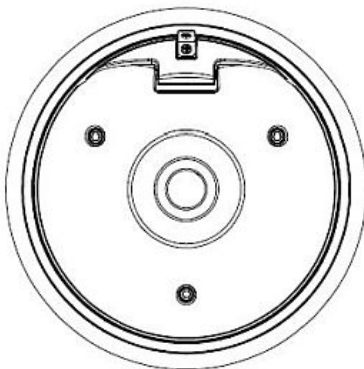
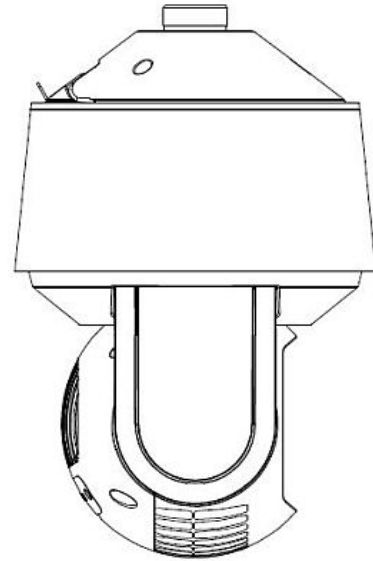
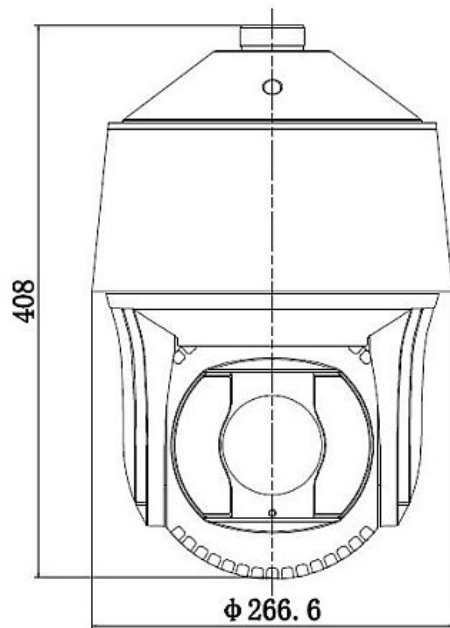
Mechanical

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

PD900

3 MP High-speed PTZ dome camera 30x zoom

DESCRIPTION

The PD900 is a 3MP IP outdoor PTZ camera with 30x optical zoom lens. Utilizing the latest Technology, PD900 efficiently ensures the low bandwidth by real-time H.264/H.265 streams. Its IP66 waterproof and IK10 vandal resistant housing make it suitable for outdoor usage.

FEATURES

1/2.8 inch Progressive scan CMOS imager

Quad stream H.264, H.265 and MJPEG

3MP @ 30 fps HDR

30x optical zoom, 10x digital zoom

120 dB WDR (HDR)

Support EIS

PT servo feedback

IEEE 802.1x, TACACS+ user authentication

NEMA TS-2

IP66, IK10 vandal proof

ONVIF Profile S, G, and T



Description

Multi-stream high definition

The integrated camera has a 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 PD900 to a video management system. In support of open standards, the PD900 is compliant with a range of VMS's, it supports ONVIF (Profiles S, G, and T) and the Siqua API.

PT Servo feedback

The PD910 pan and tilt motors are controlled by servo feedback, keeping track of the PTZ position at all times. No more drifting PTZ head due to shocks, vibration or vandalism. When the head is forced from its position, it will return immediately.

Power source choices

The PD900 can be powered with 12Vdc, 24 Vac or over the network with PoE+ sources.

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	30x zoom
Iris	P-iris and auto-iris
Focal length	4.3mm to 129 mm (F/1.6)
Horizontal field of view	62° (W) to 2.1° (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 one MJPEG stream.
Supported resolutions	2065x1553 (3MP); 1920x1080; 1280x1024; 1280x720; 1024x768; 800x600;

Specs



Video				
	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			
Event Triggers	External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger			
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			
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)			

Network

Environmental

Ingress protection level	IP66
Impact rating	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	12Vdc, 30Vdc, 24 Vac, 802.3at, class 4
Power consumption	Max. 25.4 W

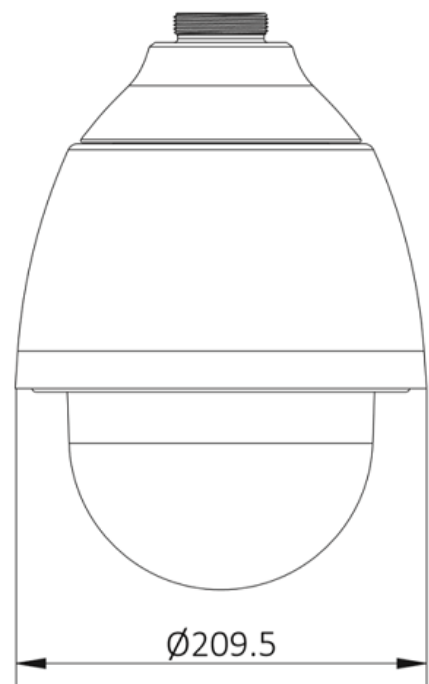
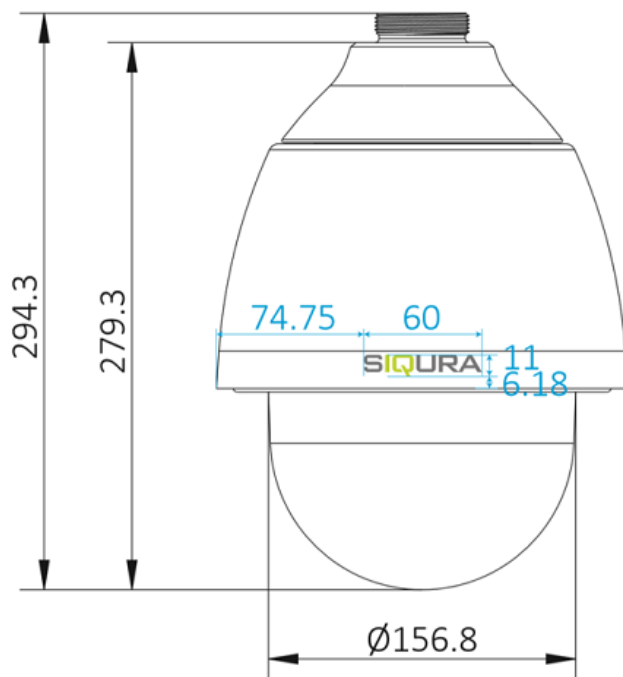
Mechanical

Interfaces	
- Ethernet	RJ45
- Alarm in / out	4x / 2x Terminal Block
- 12Vdc	Terminal Block
- 24Vac	Terminal Block
- Audio in / out	terminal Block
- Video out	BNC Connector
- RS485	Terminal Block
Dimensions	diameter 210 x 279 mm with Sunshield
Weight	2.9 kg
Color	RAL 9003 (signal white)

Ordering information

PD900	3 MP High-speed PTZ dome camera 30x zoom
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DIMENSION IN MM



RELATED



Siqua PTZ Dome Mounts
PTZ dome mounting accessories



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



Siqua XSNet 3100 MC
10/100Base-TX to FX media converter



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

PD1022

2 MP compact PTZ dome camera, 25x zoom, IR

DESCRIPTION

The PD1022 is a compact PTZ dome suitable for indoor and outdoor usage. With its 25x optical zoom block, it can stream full HD (1920x1080) resolution images from up close and far away. The camera supports the latest technology such as H.265, and intelligent H.264+ for an even better compression of the video stream; to save bandwidth and storage requirements. The PD1022 offers many image enhancement techniques, such as BLC and HLC, Electronic Image Stabilization, Defog and 3D DNR.

FEATURES

1/2.8 Progressive scan CMOS

4.8 to 120 mm zoom lens

2 MP @ 60 fps (1920 x 1080)

120 dB WDR

Triple-stream H.265, H.264 and MJPEG video

Day/Night with IR-cut filter / WDR / BLC

Electronic Image Stabilisation

ONVIF Profile S



Camera

Image sensor	1/2.8 Progressive scan CMOS
Effective pixels	1920 (H) x 1080 (V)
Zoom	25x optical zoom, 16x digital zoom
Minimum scene illumination	0.05 lux colour, 0.01 lux B/W (@ F1.6, AGC on)
Shutter speed	1 - 1/30,000 s
Lens	Auto Iris (DC)
Lens type	4.8 mm to 120 mm, F1.6
Horizontal field of view	64.5° (W) 2.9° (T)

Pan / Tilt

Pan travel	360° Continuous
Tilt travel	-5° ~ 90°
Manual speed	Pan: 0.1° ~ 300°/s, tilt: 0.1° ~ 160°/s tilt
Presets	300 Presets
Cruise	4
Sequence	8
Autopan	Yes
Speed by zoom	On/Off
Resume after power loss	Yes
Park function	Preset / Pattern Scan / Patrol Scan / Auto Scan / Tilt Scan / Random Scan / Frame Scan / Panorama Scan
PTZ by scheduled	Preset / Pattern Scan / Patrol Scan / Auto Scan / Tilt Scan / Random Scan / Frame Scan / Panorama Scan
PTZ position OSD	On / off / temporarily

Functions

Privacy masks	24
Text and picture overlay	Name, Date + time, Day of week, 4x text overlay (44 characters each)
Video motion detection	On / off / by schedule
Video motion detection alarm	Alarm output, record video clip, send alarm message, upload image
Tampering detection	On / off / by schedule
Tampering detection alarm	Alarm output, send alarm message
Exceptions	
HHD full / HHD error	On / off
HHD full / HHD error alarm	Alarm output, send alarm message
Network failure detection	On / off
Network failure detection alarm	Alarm output
IP conflict detection	On/Off
IP conflict detection alarm	Alarm output
Illegal login detection	On / off
Illegal login detection alarm	Alarm output, send alarm message

Image control

Specs



Image control	
Wide dynamic range	On / off
WDR value	>120 dB (in WDR dual shutter mode)
Backlight compensation	BLC, HLC
White balance	Auto / manual / outdoor / indoor / fluorescent lamp / sodium lamp / ATW
Exposure control	Auto, Manual Iris priority, Shutter priority (includes limits for exposure level, iris and gain)
Slow shutter	On/Off
Focus	Auto /manual / semi-auto
Brightness	Manual
Contrast	Manual
Saturation	Manual
Sharpness	Manual
Day/Night function	Auto / night / day / schedule
Noise reduction	On / off / expert Defog On / off
Electronic Image Stabilisation	On / off
Image rotation	Normal/ rotate 180

Video	
Compression algorithm(s)	H.265 (main profile) / H.264 (basic / main / high profile) / MJPEG
Low bit rate encoding	H.265, H.264i
Supported resolutions	
Main Stream (up to 50 / 60 fps)	1920 1080, 1280 960, 1280 720
Sub Stream (up to 25 / 30 fps)	704 576, 640 480, 352 288
	704 480, 640 480, 352 240
Third Stream (up to 25 / 30 fps)	1920 1080, 1280 960, 1280 720, 704 576, 640 480, 352 288
	1920 1080, 1280 960, 1280 720, 704 480, 640 480, 352 240
MJPEG	Available in sub stream or third stream
Compression bit rate control	Constant bit rate (CBR), variable bit rate (VBR)
Output bit rate (per H.264 stream)	Up to 16384 kbit/s
Number of video output streams	Up to 20 (RTSP)
Total output data rate (max)	50000 kbit/s

Audio	
Two-way audio	line in / line out
Compression	G.726 / G.711 (μ-law, a-law) / MP2L2/ PCM/ G.722.1
Input level	Adjustable gain
Connector type	Multifunction terminal block (IN, GND, OUT)

Alarm inputs/output	
Input	2x 0 - 5 V
Output	2x
Operational modes	Normally open; normally closed
Connector type	Multifunction terminal block Input: IN1, IN2, GND Output: OUT1, COM1, OUT2, COM2

Storage	
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Storage

Storage options	Supports up to 128 GB capacity of micro SD/SDHC/SDXC memory
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Analytics

Behavior analytics	Line Crossing Detection, Loitering Detection, Object Abandoned, Object Removal Region Existing, Region Entrance, Audio Exception Detection
Face detection	supported

Network

Interface	10/100 Ethernet
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE
Password levels	User and Administrator
Connector type	RJ45

Management

Supported browsers	IE7+, Chrome18+, Firefox5.0+, Safari5.02+
Security	HTTPS, IP filter, login lock, PNAC (IEEE802.1x)
Protocols	UPnP, SNMP, Bonjour, ONVIF
Password levels	Administrator / operator / user
User accounts	32

Powering

Power consumption	18 W
Power	12 Vdc, PoE+ (IEEE 802.3at, class 4)
Connector type	DC barrel connector

Environmental

Operating temperature	-30 °C to +65 °C (-22 °F to +149 °F)
Relative humidity	5% to 95%
Ingress protection	IP66
IR distance	50 m

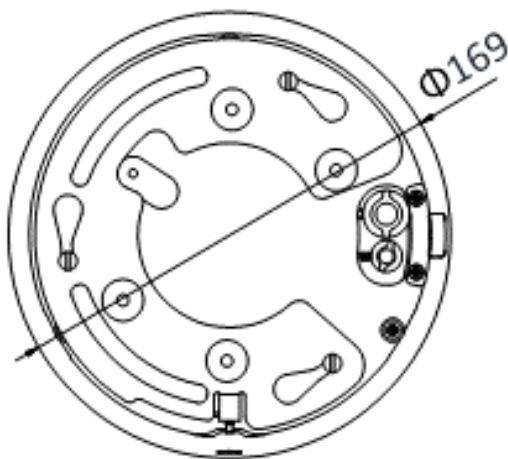
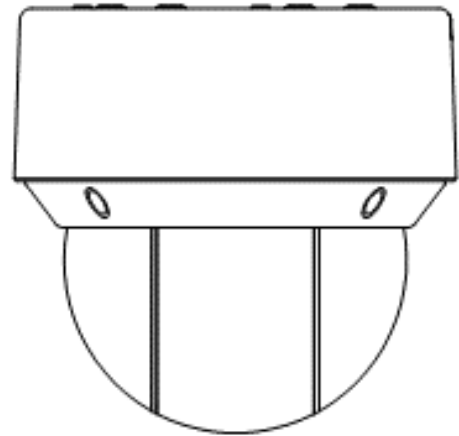
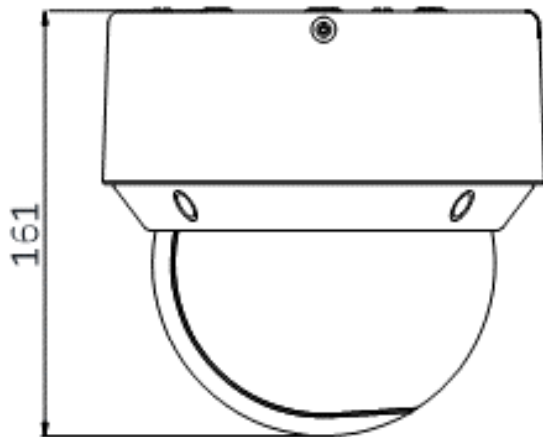
Mechanical

Dimensions	diameter169 x 161 mm (diameter6.65 x 6.34 in)
Weight	2.45 kg (5.4 lbs)
Housing	Aluminum
Colour	RAL 9003 (signal white)

Order information

PD1022	2 MP compact PTZ dome camera, 25x zoom, IR
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PD1022 Dimension



Unit: mm

RELATED



Siqua PTZ Dome Mounts
PTZ dome mounting accessories



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



Siqua XSNet 3100 MC
10/100Base-TX to FX media converter



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



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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



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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

BL2002M1-EI

Bullet camera, 2.8-12 mm motorized lens, 2MP, H.265/H.264

DESCRIPTION

The BL2002M1-EI is a 2-megapixel IP bullet camera providing clear images in any situation. A wide angle 2.8 to 12 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

1/2.8 ultra-low light CMOS imager

2MP @ 25/30 fps (1920x1080)

Motorized zoom (2.8 - 12 mm)

120 dB WDR

Built-in IR illuminator (50 m)

Intelligent VCA

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

IP67, IK10

ONVIF Profile S and G



Description

Multi-encoder & multi-streaming

The camera can support dual streaming of H.265, H.264 or MJPEG. 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 BL2002M1-EI to a video management system. In support of open standards, the BL2002M1-EI is compliant with ONVIF (Profile S / Profile G).

Video analytics

The camera features an extensive set of intelligent VCA to assist the operator detecting any anomalies. This camera additionally features behavior analysis and face detection.

Image enhancement

The BL2002M1 features a set of tools to enhance the image quality, such as smart IR, BLC and 3D noise reduction.

Ease of installation

The BL2002M1-EI is fitted with a built-in junction box to make installation easy and dismisses the need of an external junction box.

Camera

Image sensor	1/2.8" Ultra-low light CMOS
Lens	Motorized 2.8 to 12 mm, F/1.4, DC-iris
Focus	Autofocus
Field of view	105 to 35 horizontal, 56° to 20° vertical
Min. illumination	Color: 0.0068 lux, B/W: 0.0013 lux, 0 lux with IR (F/1.4)
Day/Night	IR-cut filter with auto switch
Built-in IR illuminator	Working distance: Up to 50m
	Wavelength: 850nm
WDR	120dB
Shutter speed	1/3 s to 1/100,000 s
Slow shutter	Supported

Video

Video compression	H.265 MP, H.264 HP/MP, MJPEG
Video Output	512 Kbps 24 Mbps
Region of interest	1 region per stream
Max resolution	1920x1080 at 30 fps
	(640x360 for MJPEG)
Frame rate	25/30 fps
Number of simultaneous streams	3
- Main stream	1920x1280@25/30fps; 1280x960@25/30fps; 1280x720@25/30fps; 704x576@25fps or 704x480@30fps
- Sub stream	640x480@25/30fps; 640x360@25/30fps; 352x288@25fps or 352x240@30fps
- Third Stream*	1920x1280@25/30fps; 1280x720@25/30fps; 640x360@25/30; 352x288@25fps or 352x240@30fps
Image enhancement	3D DNR
Image setting	Rotate mode**, Saturation, Brightness, Contrast, Sharpness, Backlight Compensation, Highlight Compensation, WDR
Day/Night switch	Auto/Scheduled/Triggered by Alarm In
Privacy mask	Yes
Video output	1 Vp-p; 2-pin to BNC patch cable (For test/installation only)
Note*	Enabling the Third-Stream, disables the face detection.
Note**	The combination WDR and rotation limits the frame rate to 20 fps

Network

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

Audio

Audio	1x 3.5 mm audio in (line in) ; 1x 3.5 mm audio out interface
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Specs



Audio

Compression	G.711, G.726, MP2L2
Enhancement	Environmental noise cancellation

Analytics

Behavior analytics	Line Crossing Detection, Loitering Detection, Object Abandoned, Object Removal
Face detection	supported

Alarm I/O

Alarm trigger	Motion detection, Tampering alarm, Network disconnect, IP address conflict, illegal login, disk full, disk error, Alarm I/O
Alarm in	1x input
Alarm out	1x 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 25% (terminal block), PoE (802.3at)
Power consumption	0.5 A max, Max. 16.5W

Environmental

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

Housing

Material	Die cast aluminum
Dimensions	diameter144.13 x 332.73 mm (5.67" x 13.10")
Weight	1890 g (4.17 lbs.)
Color	RAL 9003 (signal white)

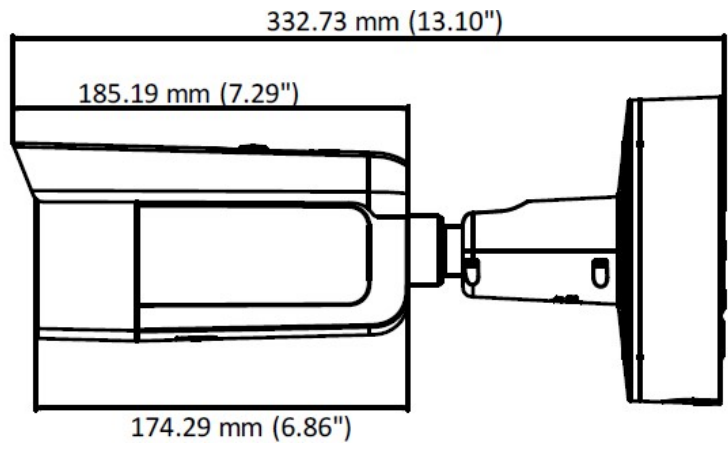
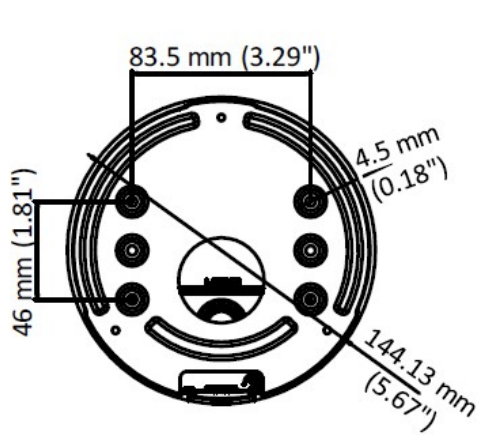
Ordering information

BL2002M1-EI	Bullet camera, 2.8-12mm motorized lens, 2MP, H.265, IP66, IR
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Sigura Accessoires

PM10	Pole mount for BL/FD2000 series cameras
WM20	Corner mount for BL/FD2000 series cameras

DIMENSION IN MM



RELATED



Siqura Fixed Camera Accessories

Mounting kits for fixed dome and bullet camera

TATTLE

VEGA 1

3MP Dual-Sensor ANPR Camera

DESCRIPTION

The Vega 1 is a dual-channel camera built in a compact case. With its powerful design, Vega 1 can read the number plate on 200km/h vehicle from 25 meters away as well as streaming visible video 24/7 simultaneously. The high sensitivity image sensor is installed for ANPR reading, video streaming in extremely low light conditions. Thanks to its local storage, the video is well restored even if the network connectivity is no longer available. The superb Vega 1 is suitable for single lane vehicle tracking, traffic limited areas, and priority lanes.

FEATURES

- >95% Accuracy of onboard ANPR
- Recognition up to 200km/hr
- One-lane Coverage
- Speed estimation
- Webpage Remote Control
- Video streaming 24/7
- ONVIF Compliance
- Local storage up to 128GB
- Waterproof IP67
- Built-in IR illuminator
- Support GPS/LTE(Optional)



Features and Performance

Lane Detected	1
Max Vehicle Speed [km/h]	200
Working Distance [m]	Up to 25
Detection	99%
Reading	>95%
OCR ANPR engine	on board
2nd Lever OCR	optional
Grabbing	Up to 60 fps
Classification	optional
Vehicle Color	optional
Vehicle Brand	optional
Vehicle Model	optional
AES256	Yes
SHA2	Yes
Compression	JPG
Streaming	Color video streaming via standard RTSP protocol

Configuration

Web Server	Installation and configuration with on board Web Server
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

Operation Mode

Free Run	Continuous processing with automatic plate detection
Triggered	Image capture and processing triggered by Ethernet command or digital signal

System

ANPR camera	Up to 3 Megapixel grayscale sensor
Context camera	Up to 3 Megapixel color sensor
Illuminator	10 high power LEDs, InfraRed @ 850 nm
Lenses	C-Mount. Many focal lengths available.
Operating System	Linux Operating System
Digital I/O	2 Inputs - 2 Outputs 1 Strobe output
Connectors	Waterproof circular connector
IP Protection	Waterproof IP67
Ethernet	GigaBit Ethernet 10/100/1000

Specs



System

Storage	uSD up to 128 GB
GPS	Optional
LTE	Optional

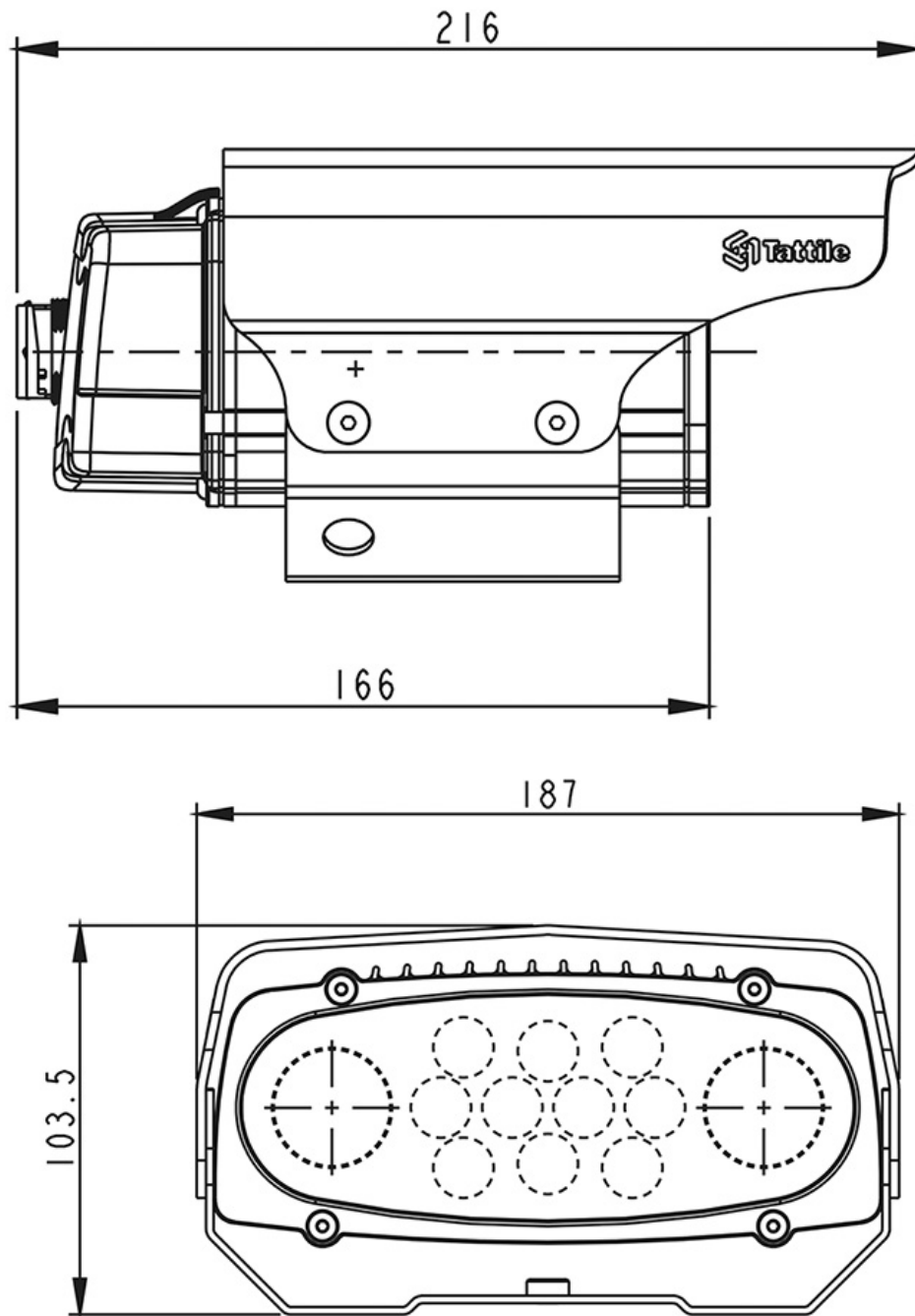
Technical Data

Operating & Storage Temperature	From -40° to +60° C
Operating & Storage Humidity	From 10% to 90% non condensing
Power supply voltage	24 Vdc
Power consumption	15 W (max)

Ordering Information

F01870	VEGA1 Long Range
F01872	VEGA1 Short Range
F01836	Power Supply for Vega and Vega1 series
T19362	GPS module for Vega1
T19841	Pole Collar for Vega and Vega1 series
T19943	Horizontal Pole Collar for Vega and Vega1 series
T19958	MicroSD 64GB for Vega and Vega1 series instead of 8GB
LIC_00019	Brand Color and Classification Software for Vega1

VEGA 1 DIMENSION IN MM



5MP HD Intelligent Lighthunter IR VF Bullet Network Camera

IPW-2325IQ-28SZ



Key Features



Smart

- Smart Intrusion Prevention, include Cross Line, Intrusion, Enter Area, Leave Area detection
- Based on target classification, smart intrusion prevention significantly reduce false alarm caused by leaves, birds and lights etc., accurately focus on human and vehicle.

Optics

- Day/night functionality
- Smart IR, up to 50m IR distance
- Up to 120 dB Optical WDR (Wide Dynamic Range)
- 2D/3D DNR (Digital Noise Reduction)

Compression

- Ultra 265, H.265, H.264, MJPEG
- Triple streams

- ROI (Region of Interest)
- Customized OSD

Network

- ONVIF conformance

Structure

- Wide temperature range: -30°C ~ 60°C
- Wide voltage range of ±25%
- IP67
- IK10 vandal resistant
- 3-Axis

Specifications

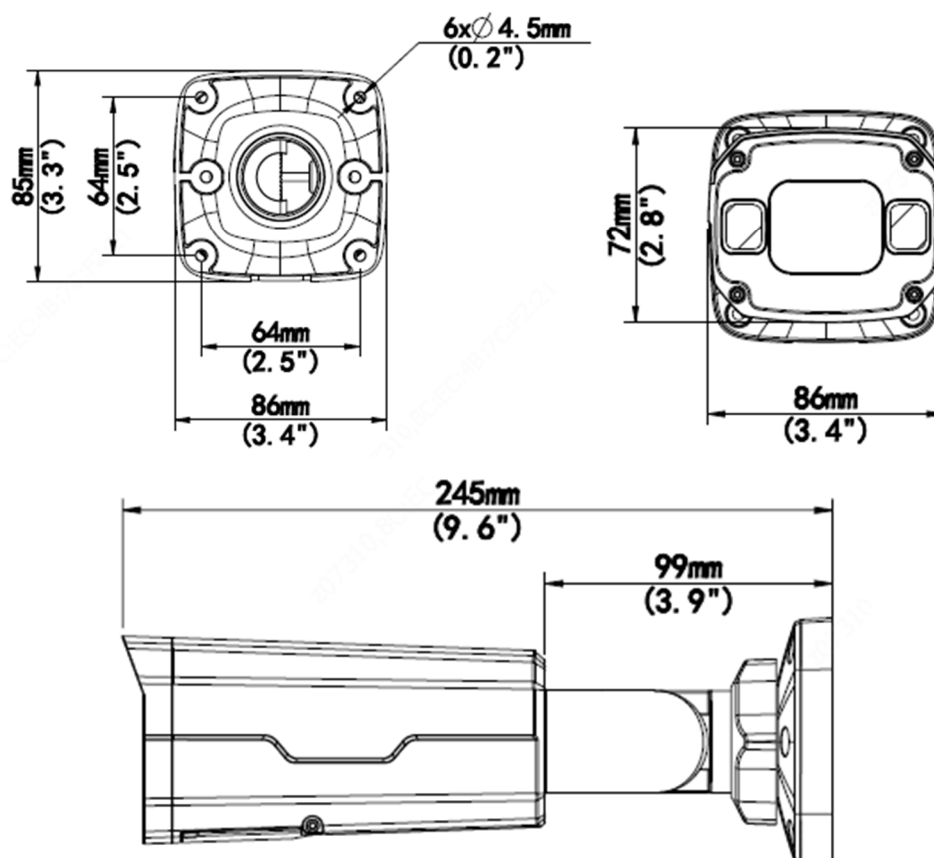
	IPW-2325IQ-28SZ				
Camera					
Sensor	1/2.7", 5.0 megapixel, progressive scan, CMOS				
Lens	2.7 ~ 13.5mm, AF automatic focusing and motorized zoom lens				
DORI Distance	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
	2.7	60.8	24.3	12.2	6.1
	13.5	303.8	121.5	60.8	30.4
Angle of View (H)	106.25° ~ 30.42°				
Angle of View (V)	56.36° ~ 17.22°				
Angle of View (O)	110.34° ~34.18°				
Adjustment angle	Pan: 0° ~ 360°		Tilt: 0° ~ 90°		Rotate: 0° ~ 360°
Shutter	Auto/Manual, 1 ~ 1/100000s				
Minimum Illumination	Colour: 0.002Lux (F1.6, AGC ON) 0Lux with IR on				
Day/Night	IR-cut filter with auto switch (ICR)				
Digital noise reduction	2D/3D DNR				
S/N	>56 dB				
IR Range	Up to 50m IR range				
Wavelength	850nm				
IR On/Off Control	Auto/Manual				
Defog	Digital Defog				
WDR	120dB				
Video					
Video Compression	Ultra 265, H.265, H.264, MJPEG				
H.264 code profile	Baseline profile, Main Profile, High Profile				
Frame Rate	Main Stream:5MP (2880*1620), Max 25fps; 4MP (2560*1440), Max 25fps; 3MP (2304*1296), Max 25fps; 1080P (1920*1080), Max 30fps; Sub Stream: D1 (720*576), Max 30fps;				

	Third Stream: CIF (352*288), Max 30fps
Video Bit Rate	128 Kbps~16 Mbps
9:16 Corridor Mode	Supported
OSD	Up to 8 OSDs
Privacy Mask	Up to 4 areas
ROI	Up to 8 areas
Motion Detection	Up to 4 areas
Image	
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2
Digital noise reduction	2D/3D DNR
Smart IR	Support
Flip	Normal/Vertical/Horizontal/180°/90°Clockwise/90°Anti-clockwise
Dewarping	Supported
HLC	Supported
BLC	Supported
Audio	
Audio Compression	G.711
Suppression	Supported
Sampling Rate	8KHZ
Storage	
Edge Storage	Micro SD, up to 256GB
Network Storage	ANR, NAS(NFS)
Smart	
Smart intrusion Prevention	Cross Line, Intrusion, Enter Area, Leave Area detection; Based on target classification, accurately focus on human and vehicle
Basic Detection	Motion detection, Tampering alarm, Audio Detection
General Function	Watermark, IP Address Filtering, Tampering Alarm, Access Policy, ARP Protection, RTSP Authentication, User Authentication
Network	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL, SNMP
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API
Client	GuardStation GuardView GuardLive
Web Browser	Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below
	Plug-in free live view: Chrome 57.0+, Firefox 58.0+, Edge 16+, Safari 11+
Interface	
Audio I/O	1 Input: impedance 35kΩ; amplitude 2V [p-p]
	1 Output: impedance 600Ω; amplitude 2V [p-p]
Alarm I/O	1/1
Network	1 RJ45 10M/100M Base-TX Ethernet
Certifications	
Certifications	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15

General

Power	DC 12V±25%, PoE (IEEE 802.3af)
	Power consumption: Max 8.0 W
Dimensions (L × W × H)	245 × 86 × 72mm
Net Weight	0.92kg
Material	Metal
Working Environment	-30°C ~ 60°C, Humidity: ≤95% RH (non-condensing)
Storage Environment	-30°C ~ 60°C, Humidity: ≤95% RH (non-condensing)
Surge Protection	6KV
Ingress Protection	IP67
Vandal Resistant	IK10
Reset Button	N/A

Dimensions



Accessories

TR-JB07-D-IN



TR-JB06-A-IN



TR-UP06-B-IN

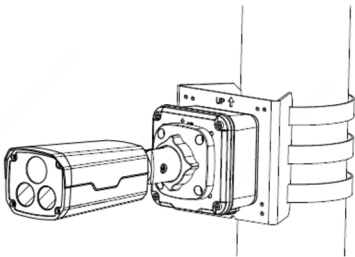
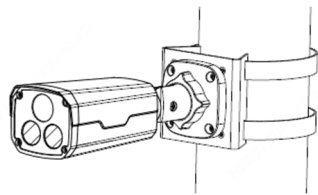


TR-UP06-C-IN



TR-A01-IN



Junction Mount	Pole Mount
TR-JB07-D-IN(TR-JB06-A-IN)+ TR-UP06-C-IN	TR-UP06-B-IN
	

BL2005M1-EI

Bullet camera, 2.8-12 mm motorized lens, 5MP, H.265/H.264

DESCRIPTION

The BL2005M1-EI is a 5-megapixel IP bullet camera providing highly detailed images in any situation. A wide angle 2.8 to 12 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

1/2.9 ultra-low light CMOS imager

5MP @ 20 fps (2944x1656)

Motorized zoom (2.8 - 12 mm)

120 dB WDR

Built-in IR illuminator (50 m)

Intelligent VCA

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

IP67, IK10

ONVIF Profile S and G



Description

Multi-encoder & multi-streaming

The camera can support dual streaming of H.265, H.264 or MJPEG. 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 BL2002M1-EI to a video management system. In support of open standards, the BL2002M1-EI is compliant with ONVIF (Profile S / Profile G).

Video analytics

The camera features an extensive set of intelligent VCA to assist the operator detecting any anomalies. This camera additionally features behavior analysis and face detection.

Image enhancement

The BL2005M1 features a set of tools to enhance the image quality, such as smart IR, BLC and 3D noise reduction.

Ease of installation

The BL2005M1-EI is fitted with a built-in junction box to make installation easy and dismisses the need of an external junction box.

Camera

Image sensor	1/2.9" Ultra-low light CMOS
Lens	Motorized 2.8 to 12 mm, F/1.4, DC-iris
Focus	Autofocus
Field of view	88° to 29° horizontal, 47.5° to 16.5° vertical
Min. illumination	Color: 0.014 lux, B/W: 0.0028 lux, 0 lux with IR (F/1.4)
Day/Night	IR-cut filter with auto switch
Built-in IR illuminator	Working distance: Up to 50 m
	Wavelength: 850 nm
WDR	120 dB
Shutter speed	1/3 s to 1/100,000 s
Slow shutter	Supported

Video

Video compression	H.265 MP, H.264 HP/MP, MJPEG
Video Output	512 Kbps 24 Mbps
Region of interest	1 region per stream
Max resolution	3072x2048 at 20 fps; 2560 x 1440 at 30 fps (640x360 for MJPEG)
Frame rate	25/30 fps
Number of simultaneous streams	3
- Main stream	3072x2048@20fps; 2072x1728@20fps; 2944x1656@20fps; 2560x1440@25/30; 1920x1080@25/30fps; 1280x720@25/30fps; 704x576@25fps or 704x480@30fps
- Sub stream	640x480@25/30fps; 640x360@25/30fps; 352x288@25fps or 352x240@30fps
- Third Stream*	1280x720@25/30fps; 640x360@25/30fps; 352x288@25fps or 352x240@30fps
Image enhancement	3D DNR
Image setting	Rotate mode**, Saturation, Brightness, Contrast, Sharpness, Backlight Compensation, Highlight Compensation, WDR
Note*	Enabling the Third-Stream, disables the face detection.
Note**	The combination WDR and rotation limits the frame rate to 20 fps
Day/Night switch	Auto/Scheduled/Triggered by Alarm In
Privacy mask	4 masks
High Light Compensation	Support
Auto-White Balance	Support
Video output	1 Vp-p; 2-pin to BNC patch cable (For test/installation only,)

Network

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

Audio

Specs



Audio

Audio	1x 3.5 mm audio in (line in) ; 1x 3.5 mm audio out interface
Compression	G.711, G.726, MP2L2
Enhancement	Environmental noise cancellation

Analytics

Behavior analytics	Line Crossing Detection, Loitering Detection, Object Abandoned, Object Removal
Face detection	supported

Alarm I/O

Alarm trigger	Motion detection, Tampering alarm, Network disconnect, IP address conflict, illegal login, disk full, disk error, Alarm I/O
Alarm in	1x input
Alarm out	1x 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 25% (terminal block), PoE (802.3at)
Power consumption	0.5 A max, Max. 17.5W

Environmental

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

Housing

Material	Die cast aluminum
Dimensions	diameter144.13 x 332.73 mm (5.67" x 13.10")
Weight	1890 g (4.17 lbs.)
Color	RAL 9003 (signal white)

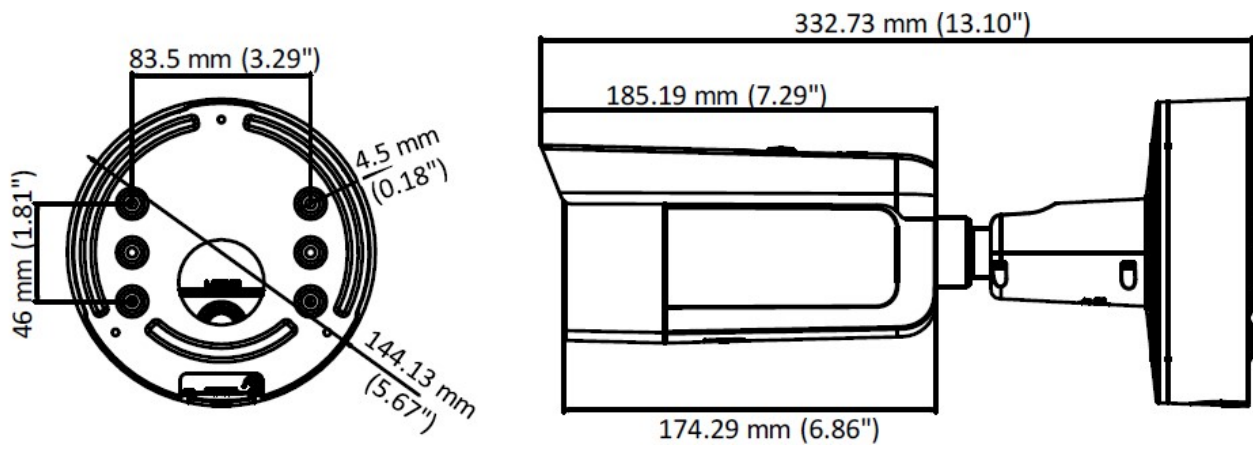
Ordering information

BL2005M1-EI	Bullet camera, 2.8-12mm motorized lens, 5MP, H.265/H.264
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Siqua Accessoires

PM10	Pole mount for BL/FD2000 series cameras
WM20	Corner mount for BL/FD2000 series cameras

DIMENSION IN MM



RELATED



Siqura Fixed Camera Accessories

Mounting kits for fixed dome and bullet camera

5MP HD Intelligent Lighthunter IR Fixed Bullet Network Camera

IPW-2125IQ-40SA



Key Features



Smart

- Smart Intrusion Prevention, include Cross Line, Intrusion, Enter Area, Leave Area detection
- Based on target classification, smart intrusion prevention significantly reduce false alarm caused by leaves, birds and lights etc., accurately focus on human and vehicle.

Optics

- Day/night functionality
- Smart IR, up to 40m IR distance
- Optical glass window with higher light transmittance
- IR anti-reflection window to increase the infrared transmittance
- 2D/3D DNR (Digital Noise Reduction)

Compression

- Ultra 265, H.265, H.264, MJPEG

- ROI (Region of Interest)

Network

- ONVIF conformance

Structure

- Wide temperature range: -30°C ~ 60°C
- Wide voltage range of ±25%
- IP67
- 3-Axis

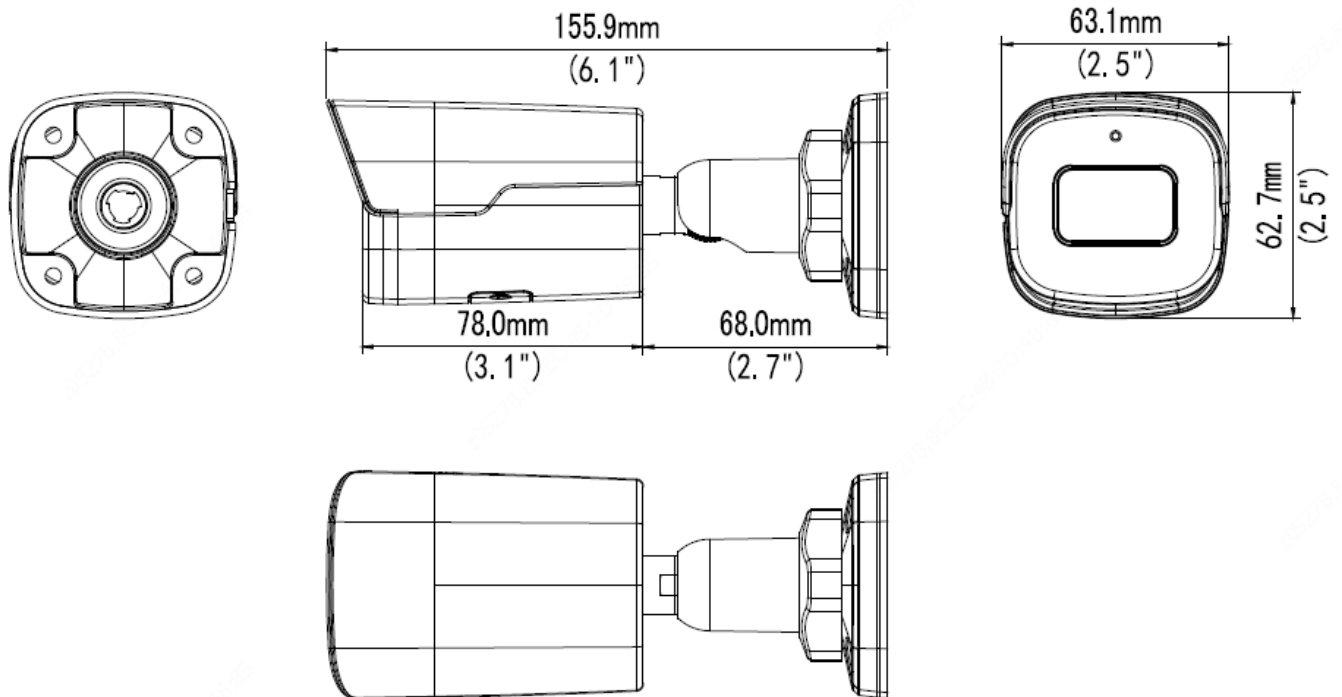
Specifications

	IPW-2125IQ-40SA				
Camera					
Sensor	1/2.7", 5.0 megapixel, progressive scan, CMOS				
Lens	4.0mm@F1.6				
DORI Distance	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
	4.0	90.0	36.0	18.0	9.0
Angle of View (H)	86.5°				
Angle of View (V)	44.1°				
Angle of View (O)	112.5°				
Adjustment angle	Pan: 0° ~ 360°		Tilt: 0° ~ 90°		Rotate: 0° ~ 360°
Shutter	Auto/Manual, 1 ~ 1/100000s				
Minimum Illumination	Colour: 0.003Lux (F1.6, AGC ON) 0Lux with IR on				
Digital noise reduction	2D/3D DNR				
Day/Night	IR-cut filter with auto switch (ICR)				
S/N	>56dB				
IR Range	Up to 40m IR range				
Wavelength	850nm				
IR On/Off Control	Auto/Manual				
Defog	Digital Defog				
WDR	120dB				
Video					
Video Compression	Ultra 265, H.265, H.264, MJPEG				
H.264 code profile	Baseline profile, Main Profile, High Profile				
Frame Rate	Main Stream:5MP (2880*1620), Max 25fps; 4MP (2560*1440), Max 25fps; 3MP (2304*1296), Max 25fps; 1080P (1920*1080), Max 30fps; Sub Stream: D1 (720*576), Max 30fps; Third Stream: CIF (352*288), Max 30fps;				
9:16 Corridor Mode	Supported				

Video Bit Rate	128 Kbps~16 Mbps
OSD	Up to 8 OSDs
Privacy Mask	Up to 4 areas
ROI	Up to 8 areas
Motion Detection	Up to 4 areas
Image	
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2
Digital noise reduction	2D/3D DNR
Smart IR	Support
Flip	Normal/Vertical/Horizontal/180°/90°Clockwise/90°Anti-clockwise
Dewarping	Supported
HLC	Supported
BLC	Supported
Audio	
Audio Compression	G.711
Suppression	Supported
Sampling Rate	8KHZ
Storage	
Edge Storage	Micro SD, up to 256GB
Network Storage	ANR, NAS(NFS)
Smart	
Smart Intrusion Prevention	Cross Line, Intrusion, Enter Area, Leave Area detection; Based on target classification, accurately focus on human and vehicle
Basic Detection	Motion detection, Tampering alarm, Audio Detection
General Function	Watermark, IP Address Filtering, Tampering Alarm, Access Policy, ARP Protection, RTSP Authentication, User Authentication
Network	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL, SNMP
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API
Client	GuardStation GuardView GuardLive
Web Browser	Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below
	Plug-in free live view: Chrome 57.0+, Firefox 58.0+, Edge 16+, Safari 11+
Interface	
Network	1 RJ45 10M/100M Base-TX Ethernet
Built-in Mic	Supported
Certifications	
Certifications	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15
General	
Power	DC 12V±25%, PoE (IEEE 802.3af)
	Power consumption: Max 5.0W
Dimensions (L × W × H)	155.9 × 63.1 × 62.7mm
Net Weight	0.425kg

Material	Metal
Working Environment	-30°C ~ 60°C, Humidity: ≤95% RH (non-condensing)
Storage Environment	-30°C ~ 60°C, Humidity: ≤95% RH (non-condensing)
Surge Protection	2KV
Ingress Protection	IP67
Reset Button	Supported

Dimensions



Accessories

TR-UP06-B-IN



TR-JB05-A-IN



TR-UP06-C-IN



TR-A01-IN



NVH-2608XRD

Video server 19", 2U, 8 bay HS, dual Xeon, SSD, RAID, RPSU

DESCRIPTION

The NVH-2608XRD is a powerful dual Xeon CPU rack-mountable VDG server. It combines top quality components and a user-friendly configuration to deliver high-power output and reliability. Its casing and components are engineered to ensure an optimized airflow (even when stacked) for higher efficiency, which results in lower energy consumption. Its redundant power supply ensures a continuous operation at all times.

FEATURES

2U High Thermal Performance Server Chassis

Dual Intel Xeon Silver 4210

8x 3.5" hot swappable HDD bays

Standard RAID 5 configuration

650W Redundant Power Supply

2x 4-Port 12G Mini-SAS Backplane

Front access info tag for easy server management

Slide rail



The front-mounted hard-drives are configured for hot-swapping, as are the cooling fans, to ensure 24/7 operation. This means that they are easy to service and can reduce running costs. The reliability is ensured through a standard RAID 5 configuration and redundancy, but can be configured otherwise if necessary. Optionally, a hot-standby hard-drive can be configured to ensure maximum reliability and reduce service needs.

Optional expansions:

- VDG Video server storage
- NVH-GBLAN for 1 extra Ethernet connection port
- Ethernet server adapter fiber

System							
Operating system	Microsoft Windows 10 Pro 64-bit						
Hard disk	128GB SSD (included)						
Recording storage capacity	Up to 144TB (8 x 3.5" hard disk drives)						
Raid configuration	Standard Raid 5 configuration						
Effective recording storage capacity	126TB (after Raid 5)						
Processors	2x Intel Xeon Silver 4210 processor						
Intel Lewisburg PCH C621							
Memory	32GB memory						
Network Interface	Dual Gigabit Ethernet RJ-45 (10/100/1000 MB/s)						
Interface Advanced Management Technology (AMT)							
Video output	VGA						
Mechanical							
Form Factor	2U 19-inch Rack Mount						
Dimensions (DxWxH)	660mm x 430mm x 88mm (26" x 16.9" x 3.5")						
Electrical							
Power Input	100-240VAC,50/60Hz 5A						
Power Supply	650W Redundant						
Environmental							
Operating Temperature	5° C - 40° C (41°F - 104°F)						
Storage Temperature	-40° C - 65° C (-40°F - 149°F)						
Ordering Info							
NVH-2608XRD	Video server 19", 2U, 8 bay HS, dual Xeon, SSD, RAID, RPSU						
Supplied Accessories	USB Compact Keyboard						
	USB Optical Mouse						
	Power Cord 1.5 meter						
	Slide rail						
VDG Server accessories							
NVH-GBLAN	Extra 100/1000Mbps LAN interface						
NVH-FIBER	Ethernet server adapter fiber						
Basic video server storage	NVH-81TB	NVH-82TB	NVH-83TB	NVH-84TB	NVH-86TB	NVH-88TB	NVH-810TB
(incl. assembly and config)	1TB	2TB	3TB	4TB	6TB	8TB	10TB
Pro video server storage	NVH-92TB		NVH-94TB		NVH-96TB		NVH-98TB
(incl. assembly and config)	2TB		4TB		6TB		8TB
		NVH-910TB	NVH-912TB	NVH-914TB	NVH-916TB	NVH-918TB	

Specs




10TB	12TB	14TB	16TB	18TB
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RELATED




Intel NVH-GBLAN

A PCI Express Ethernet adapter perfect for expanding your Ethernet port(s).



WesternDigital NVH Basic Server Storage

Basic server storage for the storage environments.



WesternDigital NVH Pro Server Storage

Professional server storage for the most demanding storage environments.

NVH-2608XR

Video server 19", 2U, 8 bay HS, Xeon, SSD, RAID, RPSU

DESCRIPTION

The NVH-2608XR is a powerful, customizable, stackable and rack-mounted VDG server. It combines top quality components and a user-friendly configuration to deliver high-power output and reliability. Its casing and components are engineered to ensure an optimized airflow (even when stacked) for higher efficiency, which results in lower energy consumption. Its redundant hot-plug power supply ensures a continuous operation at all times.

FEATURES

2U High Thermal Performance Server Chassis

8x 3.5" hot swappableHDD bays

Standard RAID 5configuration

650W Reduntant Hot-plug Power Supply

2x 4-Port 12G Mini-SAS Backplane

Two Ethernet (1gb/s) ports

One Active management Technology (AMT) port

Front access info tag for easy server management

Slide rail



The front-mounted hard-drives are configured for hot-swapping, as are the cooling fans, to ensure 24/7 operation. This means that they are easy to service and can reduce running costs. The reliability is ensured through a standard RAID 5 configuration and redundancy, but can be configured otherwise if necessary. Optionally, a hot-standby hard-drive can be configured to ensure maximum reliability and reduce service needs.

Optional expansions:

- VDG Video server storage
- NVH-GBLAN for 1 extra Ethernet connection port
- Ethernet server adapter fiber
- 1x NVH-RMM for remote management access

System

Operating system	Microsoft Windows 10 Pro 64-bit
Hard disk	128GB SSD (included)
Recording storage capacity	Up to 144TB (8 x 3.5" hard disk drives)
Raid configuration	Standard Raid 5 configuration
Effective recording storage capacity	126TB (after Raid 5)
Processor	Intel Xeon E3 processor
Chipset	Intel C232 Chipset
Memory	16GB memory
Network Interface	Dual Gigabit Ethernet RJ-45 (10/100/1000 MB/s)
Video output	VGA

Mechanical

Form Factor	2U 19-inch Rack Mount
Dimensions (DxWxH)	660mm x 430mm x 88mm (26" x 16.9" x 3.5")

Electrical

Power Input	100-240VAC, 50/60Hz 5A
Power Supply	650W Redundant Hot-plug

Environmental

Operating Temperature	5° C - 40° C (41°F - 104°F)
Storage Temperature	-40° C - 65° C (-40°F - 149°F)

Ordering Info

NVH-2608XR	Video server 19", 2U, 8 bay HS, Xeon, SSD, RAID, RPSU
Supplied Accessories	USB Compact Keyboard
	USB Optical Mouse
	Power Cord 1.5 meter
	Slide rail

VDG Server accessories

NVH-GBLAN	Extra 100/1000Mbps LAN interface
NVH-FIBER	Ethernet server adapter fiber

Basic video server storage

	NVH-81TB	NVH-82TB	NVH-83TB	NVH-84TB	NVH-86TB	NVH-88TB	NVH-810TB
(incl. assembly and config)	1TB	2TB	3TB	4TB	6TB	8TB	10TB

Pro video server storage

	NVH-92TB	NVH-94TB	NVH-96TB	NVH-98TB
(incl. assembly and config)	2TB	4TB	6TB	8TB

	NVH-910TB	NVH-912TB	NVH-914TB	NVH-916TB	NVH-918TB
	10TB	12TB	14TB	16TB	18TB




FRONT








RELATED



Intel NVH-GBLAN

A PCI Express Ethernet adapter perfect for expanding your Ethernet port(s).




Intel NVH-RMM

Remote management module for NVH-10xx and NVH-2xxx servers



WesternDigital NVH Basic Server Storage

Basic server storage for the storage environments.



WesternDigital NVH Pro Server Storage

Professional server storage for the most demanding storage environments.

NVH-1001

Compact, i5, SSD, 1TB HDD

DESCRIPTION

The NVH-1001 is a compact client computer, which can be used as a viewing unit or as stand alone, for storing video content. Ideal for a small video security setup.

FEATURES

Small solution (195mm x 190mm x 66.2mm)

Viewer possibility

Server storage possibility

16GB internal memory

1 TB hard drive



The compact, mountable design and near-silent experience make it perfectly suitable for any workstation at any location. With two video outputs (DisplayPort & HDMI), it is suitable to be used with many different monitors. The combination of a 64GB SSD and 16GB internal memory ensure a high speed performance. while the 1 TB hard drive provides more than sufficient storage capacity.

Optional expansions:

- PTZ joystick/keyboard

System	
Operating system	Microsoft Windows 10 Pro 64-bit
Hard drive	128GB SSD (included)
	1 x 1TB 2.5" hard drive (included)
Processor	Intel Core i5
Chipset	Intel H310
Memory	16GB memory
Network Interface	1x Gigabit Ethernet RJ-45 (10/100/1000 MB/s)
Video output	1x DisplayPort / 1x HDMI

Mechanical	
Form Factor	Compact Desktop (wall mountable)
Dimensions (DxWxH)	195mm x 190mm x 66.2mm (7.67" x 7.48" x 2.60")

Electrical	
Power Input	100-240VAC, 50/60Hz 1.6A
Power Supply	90W Single
Power Consumption	60W

Environmental	
Operating Temperature	5° C - 40° C (41°F - 104°F)
Storage Temperature	-40° C - 65° C (-40°F - 149°F)

Ordering Info	
NVH-1001	Compact, i5, SSD, 1TB HDD
Supplied Accessories	USB Compact Keyboard
	USB Optical Mouse
	230V Power Cord

VDG Client accessories	
NVH-KEY1001	PTZ joystick for VDG Video client, USB 3.0
NVH-KEY1002	PTZ keyboard for VDG Video client, USB 2.0
NVH-KEY1003	PTZ joystick for VDG Video client, USB 2.0







RELATED



VDG NVH-KEY1001

PTZ joystick for use with Sense Client



VDG NVH-KEY1002

An easy-to-use, plug-and-play control keyboard.



VDG NVH-KEY1003

PTZ joystick for use with Sense Client, USB

NVH-1101

Video client, i7, SSD (desktop/tower)

DESCRIPTION

The NVH-1101 is an efficient and powerful client system, fitted with the latest top-brand components. Useable as desktop model or tower configuration, the NVH-1101 guarantees a reliable performance, built for 24/7 runtime. Part of a complete VDG Sense configuration, the NVH-1101 is the perfect workstation. With the optional extra hard drive expansion, it is also possible to use the NVH-1101 as a small stand-alone VDG Sense configuration. The compact and sleek casing lets the hardware blend in perfectly in any workplace environment.

FEATURES

Desktop/Tower possibility

Standard two-monitor setup

2 Ethernet connection ports

Maximum 1Gb Ethernet with
possibility for redundancy



Preconfigured with optimal hard- and software for VDG Sense, the system is set-up for plug-and-play use within minutes. The hardware components are selected specifically for the most reliable and efficient setup. The hardware consist only of top-quality components from third party manufacturers. A powerful experience is guaranteed with the Intel i7 CPU. Our NVH-1101 is fitted with a 64GB SSD and a smart air duct cooling system. This ensures an as good as silent operating experience combined with high output performance.

Optional expansions

- Quad card for four monitor output
- VDG Video server storage to operate as stand-alone VDG Sense configuration
- PTZ joystick/keyboard

System	
Operating system	Microsoft Windows 10 Pro 64-bit
Hard disk	128 GB SSD (included)
Recording Storage Capacity	1 x 3.5 inch hard drive (optional)
Processor	Intel Core i7
Chipset	Intel C246
Memory	16 GB memory
Network Interface	Dual Gigabit Ethernet RJ-45 (10/100/1000 MB/s)
Video output	1x VGA / 1x DisplayPort / 1x HDMI

Mechanical	
Form Factor	Desktop / Tower
Dimensions (DxWxH)	390 mm x 340 mm x 103 mm (15.35" x 13.39" x 4.06")

Electrical	
Power Input	100-240VAC, 50/60Hz 6~3A
Power Supply	300W Single
Power Consumption	150W

Environmental	
Operating Temperature	5° C - 40° C (41°F - 104°F)
Storage Temperature	-40° C - 65° C (-40°F - 149°F)

Ordering Info	
NVH-1101	Video client, i7, SSD (desktop/tower)
Supplied Accessories	USB Compact Keyboard
	USB Optical Mouse
	Power Cord 1.5 meter

VDG Client accessories	
NVH-QUAD	Quad mini Displayport/DVI-D output
NVH-HDMI-F	Displayport to HDMI adapter cable for NVH-1101
NVH-KEY1001	PTZ joystick for VDG Video client, USB 3.0
NVH-KEY1002	PTZ keyboard for VDG Video client, USB 2.0
NVH-KEY1003	PTZ joystick for VDG Video client, USB 2.0

Basic video server storage	NVH-81TB	NVH-82TB	NVH-83TB	NVH-84TB	NVH-86TB	NVH-88TB	NVH-810TB
(incl. assembly and config)	1TB	2TB	3TB	4TB	6TB	8TB	10TB

Pro video server storage	NVH-92TB	NVH-94TB	NVH-96TB	NVH-98TB
(incl. assembly and config)	2TB	4TB	6TB	8TB

	NVH-910TB	NVH-912TB	NVH-914TB	NVH-916TB	NVH-918TB
	10TB	12TB	14TB	16TB	18TB



TOWER









FLAT





RELATED

	NVIDIA NVH-QUAD A Low profile, Multi-View, Mini DisplayPort Quad Graphic Card
	VDG NVH-KEY1001 PTZ joystick for use with Sense Client
	VDG NVH-KEY1002 An easy-to-use, plug-and-play control keyboard.
	VDG NVH-KEY1003 PTZ joystick for use with Sense Client, USB
	WesternDigital NVH Basic Server Storage Basic server storage for the storage environments.
	WesternDigital NVH Pro Server Storage Professional server storage for the most demanding storage environments.

NVH-QUAD

A Low profile, Multi-View, Mini DisplayPort Quad Graphic Card

DESCRIPTION

The NVH-Quad Multi-View is a low-profile, quad Mini DisplayPort capable solution-allowing users to expand their field of view across four large high- resolution displays. The NVH-Quad is an ideal solution for anyone who needs the space-saving advantages of a small form-factor PC but also wants the advantages of high quality, high resolution displays.

FEATURES

4x Mini DisplayPort 1.4

Mini DisplayPort to HDMI adapter included

2 GB GDDR5 graphics memory

512 NVIDIA CUDA Cores

Active Thermal Solution

Low Profile Design

Max Power consumption 40 W



Configuration

Interface	PCIe 3.0 x16
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Memory

Memory Technology	GDDR5 SDRAM
Standard Memory	2GB
Bandwidth	Up to 80 GB/s memory bandwidth

Display

Display connections	4x standard Mini-displayPort 1.4 outputs (incl. MiniDP to HDMI adapters)
Maximum resolution	4x 4096x2160 @ 60 Hz or 4x 5120x2880 @ 60Hz
Maximum resolution incl. mDP to HDMI adapters	4x 1920x1200
Note	Use of displayport cables is mandatory if you want to use 4K display output

Power

Power consumption	Max 40W maximum power consumption
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Regulation Approval

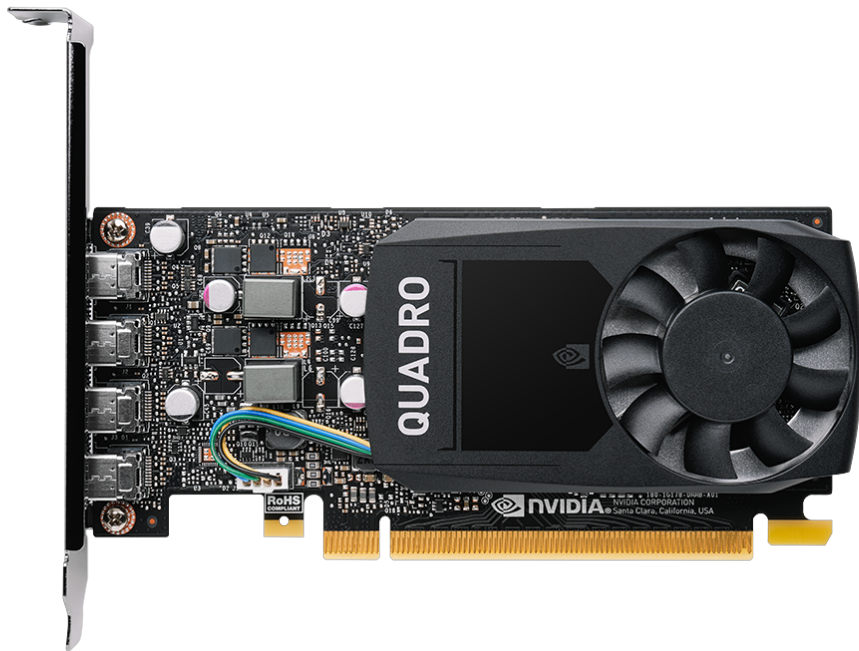
Certification & Compliance	FCC, CE, C-Tick, BSMI, KCC, UL, VCCI, RoHS, WEEE
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Compatibility

Compatible with	NVH-1101
	NVH-2004

Ordering info:

NVH-QUAD	Quad mini Display Port to HDMI output
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RELATED



NVIDIA NVH-QUADXTR

A 5K, low profile, Multi-View, Mini DisplayPort Quad Graphic Card

**Monitor č. 1 BenQ
GL2780E
(9H.LJ6LB.FBE)**



- 27“ TN displej so skvelým obrazom Technologie Eye-Care
- Vysoké rozlíšenie Full HD (1920 × 1080 px)
- Bleskurýchla doba odozvy 1 ms
- Štýlový dizajn
- Režim farebnej slabosti
- Eye-Care, Brightness Intelligence Technology

Uhlopriečka	27"
Typ panelu	TN
Rozlíšenie	1920 × 1080
Pomer strán	16:9
Obnovovacia frekvencia	75 Hz
Minimálna doba odozvy	1 ms
Kontrast	1 000:1
Dynamický kontrast	12 000 000:1
Jas	300 cd/m ²
Podporované farby	16,7 miliónov
Priemerná spotreba	Výrobca neuvádza
Low Input Lag Mode	Nie
Zobrazovacie uhly	Horizontálne/vertikálne: 170 ° / 160 °
Reproduktory	Nie
Výškovo nastaviteľný	Nie
Pivot	Nie
VESA kompatibilné	Áno, 100 × 100 mm
G-Sync	Nie
FreeSync	Nie
HDR	Nie
Blue Light Reduction	Áno
Flicker reduction	Áno
MHL	Nie
	Nie

Obraz v obraze (PiP/PbP)	
VGA	Áno
DVI-D	Áno
HDMI	Áno, verzia 1.4 (1×)
DisplayPort	Áno, verzia 1.2 (1×)
mini DisplayPort	Nie
USB hub	Nie
USB-C	Nie
USB-C dokovanie	Nie
Audio výstup	Áno, 3,5mm jack
Audio vstup	Nie
sRGB	Výrobca neuvádza
Adobe RGB	Výrobca neuvádza
NTSC	72 %
DCI-P3	Výrobca neuvádza
rec.709	Výrobca neuvádza
rec.2020	Výrobca neuvádza
Špeciálne funkcie	Brightness Intelligence Technology, Režim farebnej slabosti
Rozmery s podstavcom	63,90 × 45,2 × 18,3 cm (š×v×h)
Hmotnosť	7,3 kg

Monitor č.2 55 "LED NEC E557Q, 3840 x 2160, VA, 16 / 7,350cd



Teraz si môžete vychutnať všetky výhody displeja NEC. Séria E je perfektný vstup do sveta profesionálnych digitálnych značenia. Prineste osvedčenú výkonnosť a spoľahlivú kvalitu NEC do zasadacej miestnosti alebo predajného priestoru a uvidíte, ako sú bezproblémovo splnené požiadavky na digitálne značenie.

Nižšie náklady na inštaláciu a prevádzku - pretože displej má podsvietenie s technológiou LED, je mimoriadne úsporný, podsvietenie dlhšie vydrží, displej má aj ľahšiu konštrukciu, takže umožňuje jednoduchú a flexibilnú prepravu, ako aj montáž a zapojenie.

Štíhly dizajn a zabudované reproduktory - estetický dizajn je potešením pre oči

Prepojiteľnosť pripravená na budúcnosť - má niekoľko priemyselne štandardných digitálnych a analógových signálnych vstupov pre flexibilné integráciu do A / V infraštruktúr.

Prehrávanie bez námahy - Integrovaný multimediálny USB prehrávač

Samostatný prevádzka - Displej je navrhnutý pre priamy samostatnú prevádzku, ktorý umožňuje integrovaný multimediálny USB prehrávač, reproduktory a funkcie plánovania.

Typ obrazovky: VA

Podsvietenie: s priamym LED podsvietením - Direct LED

Aktívna plocha obrazovky (W x H) [mm] 1,210 x 680

Uhlopriečka [palce]: 54.6 / 139 cm

Rozlíšenie: 3840 x 2160

Veľkosť bodu [mm]: 0.315

Pomer strán: 16: 9

Jas [cd / m2]: 350

Kontrast: 4000: 1

Odozva [ms]: 8

Obnovovacia frekvencia [Hz] 60

Pozorovacie uhly (horizontal / Vertikál): 178/178

Reproduktory: Integrované reproduktory (10 W + 10 W)

konektory:

Analógový video vstup: 1 x VGA; Komponentný (RCA); Kompozitný (RCA)

Digitálne video vstup: 3 x HDMI

Analógový audio vstup: 1 x 3,5 mm jack

Digitálny audio vstup: 3 x HDMI

Ovládanie vstupu: LAN 100Mbit; RS232

Analógový video výstup: 1 x 3,5 mm konektor

Output Audio Digital: 1 x SPDIF

Diaľkové ovládanie: IR diaľkové ovládanie; RS-232C (9-pin D-sub) Input

Senzor okolitého osvetlenia programovateľné spustené činnosti

MEDIAPLAYER

Supported Image Formats JPG (baseline, progressive, RGB, CMYK); max. resolution 15360 x 8640

Supported Audio Formats MP3 (MP3); max. bit-rate 320 kBit / s

Supported File Storage / File System USB 2.0 / FAT16, FAT32

Supported Video Container Formats MPG, MPEG, MPEG2-TS, MPEG2-PS, MP4, MKV, AVI, Motion JPEG

Supported Video Codecs MPEG1, MPEG2, H.263, H.264, H.265, WMV

Supported Audio Codecs (Video) LPCM, MP3, AC-3, AAC, WMA Standard, WMA 9 Professional

Trieda energetickej účinnosti: A

Spotreba [W]: 110

Montáž na stenu: Vesa: 4 holes; 400 x 200 (FDMI); M6

Naklápanie monitoru: Podporovanie orientácia: Na šírku

Farba: Black Front Bezel, Black Back Cabinet

Rozmery (bez stojanu, ŠxVxH mm): bez podstavca: 1 239 x 712 x 79

Hmotnosť [kg]: 15

Hrúbka rámčeka [mm] 12.9 (left, right and top); 14.7 (bottom)

Obsah balenia: Display; Diaľkové ovládanie; Kábel HDMI; power Cable

Monitor 3 65" LED NEC E657Q,3840 x 2160 VA 16 7 350cd



Popis

- Vstúpte do sveta profesionálnej reklamy

Teraz si môžete vychutnať všetky výhody displeja NEC. Séria E je perfektný vstup do sveta profesionálnych digitálnych značenia. Prineste osvedčenú výkonnosť a spoľahlivú kvalitu NEC do zasadacej miestnosti alebo predajného priestoru a uvidíte, ako sú bezproblémovo splnené požiadavky na digitálne značenie.

Nížšie náklady na inštaláciu a prevádzku - pretože displej má podsvietenie s technológiou LED, je mimoriadne úsporný, podsvietenie dlhšie vydrží, displej má aj ľahšiu konštrukciu, takže umožňuje jednoduchú a flexibilnú prepravu, ako aj montáž a zapojenie.

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Prepojitelnosť pripravená na budúcnosť - má niekoľko priemyselne štandardných digitálnych a analógových signálnych vstupov pre flexibilné integráciu do A / V infraštruktúr.

Prehrávanie bez námahy - Integrovaný multimediálny USB prehrávač

Samostatná prevádzka - Displej je navrhnutý pre priamy samostatnú prevádzku, ktorý umožňuje integrovaný multimediálny USB prehrávač, reproduktory a funkcie plánovania.

Typ obrazovky: VA

Podsvietenie: s priamym LED podsvietením - Direct LED

Aktívna plocha obrazovky (W x H) [mm] 1,428 x 804

Uhlopriečka [palce]: 64.5 / 164

Rozlíšenie: 3840 x 2160

Rozstup bodu [mm]: 0.372

Pomer strán: 16: 9

Jas [cd / m2]: 350

Kontrast: 4000: 1
Odozva [ms]: 8
Obnovovacia frekvencia [Hz] 60
Pozorovacie uhly (horizontal / Vertikál): 178/178
Reproduktory: Integrované reproduktory (10 W + 10 W)

Konektory:

Analógový video vstup 1 x VGA; Komponentný (RCA); Kompozitný (RCA)
Digitálny video vstup 3 x HDMI
Analógový audio vstup 1 x 3,5 mm jack
Digitálny audio vstup 3 x HDMI
Ovládanie vstupu LAN 100Mbit; RS232
Analógový video výstup 1 x 3,5 mm konektor
Output Audio Digital 1 x SPDIF
Diaľkové ovládanie IR diaľkové ovládanie; RS-232C (9-pin D-sub) Input

Senzor okolitého osvetlenia programovateľné spustené činnosti

MEDIAPLAYER

Supported Image Formats JPG (baseline, progressive, RGB, CMYK); max. resolution 15360 x 8640
Supported Audio Formats MP3 (MP3); max. bit-rate 320 kBit / s
Supported File Storage / File System USB 2.0 / FAT16, FAT32
Supported Video Container Formats MPG, MPEG, MPEG2-TS, MPEG2-PS, MP4, MKV, AVI, Motion JPEG
Supported Video Codecs MPEG1, MPEG2, H.263, H.264, H.265, WMV
Supported Audio Codecs (Video) LPCM, MP3, AC-3, AAC, WMA Standard, WMA 9 Professional

Trieda energetickej účinnosti: A +
Spotreba [W]: 118

Montáž na stenu: VESA montáž [mm] 4 holes; 400 x 400 (FDMI); M6
Naklápanie monitoru: Podporovanie orientácia: Na šírku
Farba: Black Front Bezel, Black Back Cabinet
Rozmery (bez stojanu, ŠxVxH mm): bez podstavca: 1 462 x 842 x 97
Hmotnosť [kg]: 23.8
Hrúbka rámcika [mm] 15.9 (left, right and top); 19.9 (bottom)
Obsah balenia: Display; Diaľkové ovládanie; Kábel HDMI; power Cable

DH-IPC-HFW2231S-S-S2

2MP WDR IR Bullet Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max. IR distance: 30 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 GB Micro SD card
- 12V DC/PoE power support
- IP67 protection



System Overview

With upgraded H.265 encoding technology, Dahua Lite series camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function, complying to the standards of IP67.

Functions

Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back- light environment, bright region and dark region with strong light source, you can also get clear images.

Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						
Camera						
Image Sensor		1/2.8”2Megapixel progressive CMOS				
Effective Pixels		1920 (H) ×1080 (V)				
ROM		128 MB				
RAM		128 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				
Min. Illumination		0.002 Lux @F1.6				
IR Distance		30 m (98.4 ft)				
IR On/Off Control		Auto/Manual				
IR LEDs Number		1				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Mount Type		M12				
Focal Length		2.8 mm 3.6 mm				
Max. Aperture		F1.6 F1.6				
Field of View		2.8 mm: Pan:106° Tilt: 56° Diagonal: 126° 3.6 mm: Pan:87° Tilt: 46° Diagonal: 104°				
Iris Type		Fixed aperture				
Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)	
	3.6 mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)	
Smart event						
General IVS Analytics		Tripwire; intrusion				
Video						
Video Compression		H.265; H.264; H.264B; MJPEG				
Smart Codec		Yes				
Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				
Stream Capability		2 streams				

Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 Kbps–6144 Kbps H.265: 12 Kbps–6144 Kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest(Rol)	Yes (4 areas)
Smart IR	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Mirror	Yes
Privacy Masking	4 areas
Network	
Network	RJ-45 (10/100 Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
User/Host	20
Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Browser	IE Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android
Certification	
Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 4.9W

Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95% RH
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Ingress Protection	IP67

Structure

Casing	Metal
Dimensions	166.2 mm × Φ70 mm (6.5" × Φ2.8")
Net Weight	0.48 kg (1.1 lb)
Gross Weight	0.57 kg (1.3 lb)

Ordering Information

Type	Part Number	Description
2MP Camera	DH-IPC-HFW2231SP-S-S2	2MP WDR IR Bullet Network Camera,PAL
	DH-IPC-HFW2231SN-S-S2	2MP WDR IR Bullet Network Camera,NTSC
Accessories (optional)	PFA134	Junction Box
	PFA152-E	Pole Mount
	PFM321D	DC12V1A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
	PFM900-E	Integrated Mount Tester
	PFM114	TLC SD Card

Accessories

Optional:



PFA134
Junction Box



PFA152-E
Pole Mount



PFM321D
DC12V1A
Power Adapter



LR1002-1ET/1EC
Single-port Long
Reach Ethernet over
Coax Extender

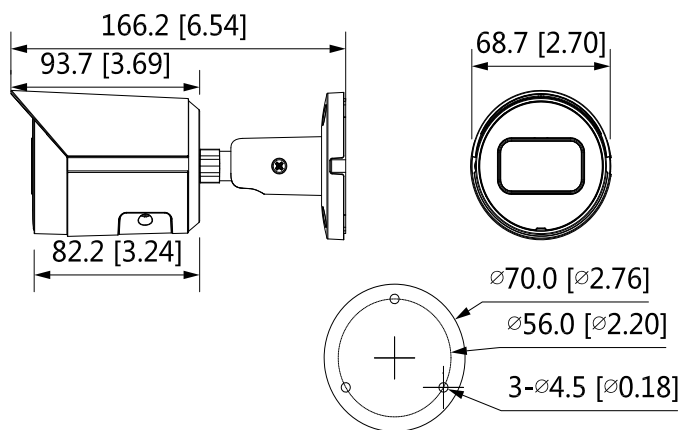


PFM900-E
Integrated Mount
Tester



PFM114
TLC SD Card

Dimensions (mm[inch])



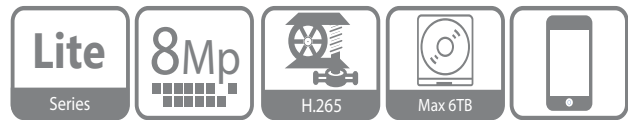
Pole Mount	Junction Mount
PFA134+PFA152-E	PFA134

DHI-NVR2104/2108-4KS2

4/8 Channel Smart 1U Lite 4K H.265 Network Video Recorder



- H.265/H.264 codec decoding
- Max 80Mbps incoming bandwidth
- Up to 8Mp resolution preview&playback
- Up to 1ch@8MP/4ch@1080P decoding
- HDMI/VGA simultaneous video output



System Overview

Dahua NVR2000-4KS2 is capable of transmitting 8MP image. It helps to save up to 50% HDD and storage space with its H.265 decoding technology compared with H.264.

Due to its cost-effective and easy-to-install design, this NVR is ideal for a wide range of applications such as home safety, grocery, warehouse, education, and financial institutions.

The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance systems that work independently of video management system (VMS). It features an open architecture that supports for multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with IP cameras.

Functions

4K Resolution

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Automatic Network Replenishment (ANR) Technology

Network Video Recorders with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

Easy4ip

The Easy4ip app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access NVR devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

Technical Specification

System

Main Processor	Dual-core embedded processor
Operating System	Embedded LINUX

Audio and Video

IP Camera Input	4/8 Channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA

Display

Interface	1 HDMI, 1 VGA
Resolution	HDMI: 3840×2160, 1920×1080, 1280×1024, 1280×720
	VGA: 1920×1080, 1280×1024, 1280×720
Decoding Capacity	1ch@8MP 30fps, 4ch@1080P 30fps
Multi-screen Display	4CH: 1/4
	8CH: 1/4/8/9
OSD	Camera title, Time, Camera lock, Motion detection, Recording

Recording

Compression	H.265/H.264
Resolution	8MP/6MP/5MP/4MP/3MP/1080P/720P/D1&etc.
Record Rate	80Mbps
Bit Rate	16Kbps ~ 20Mbps Per Channel
Record Mode	Manual, Schedule(Regular(Continuous), MD, Stop
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec

Video Detection and Alarm

Trigger Events	Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), and Tampering
Alarm input	N/A
Relay Output	N/A

Playback and Backup

Sync Playback	1/4
Search Mode	Time /Date, MD and Exact Search (accurate to second)
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network

Third-party Support

Third-party Support	Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more
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Network

Interface	1 RJ-45 port (10/100Mbps)
PoE	N/A
Network Function	HTTP/HTTPS, TCP/IP, IPv4/IPv6, RTSP, UDP, NTP, DHCP, DNS, IP Filter, DDNS, IP Search(Support Dahua IP camera, DVR, NVS and etc.), Easy4ip
Optical Fiber Interface	N/A
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4, SDK, CGI

Storage

Internal HDD	1 SATA III Port, up to 6TB capacity for each HDD
HDD Mode	Single
eSATA	N/A

Auxiliary Interface

USB	2 ports (2 Rear USB2.0)
RS232	N/A
RS485	N/A

Electrical

Power Supply	Single, DC12V/2A
Power Consumption	<3W (without HDD)

Environmental

Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH

Construction

Dimensions(W×D×H)	Smart 1U, 204.6mm×204.6mm×45.6mm (8.1" x 8.1" x 1.8")
Net Weight	0.45kg (0.99 lb) (without HDD)
Gross Weight	1.5kg(3.31 lb)(without HDD)

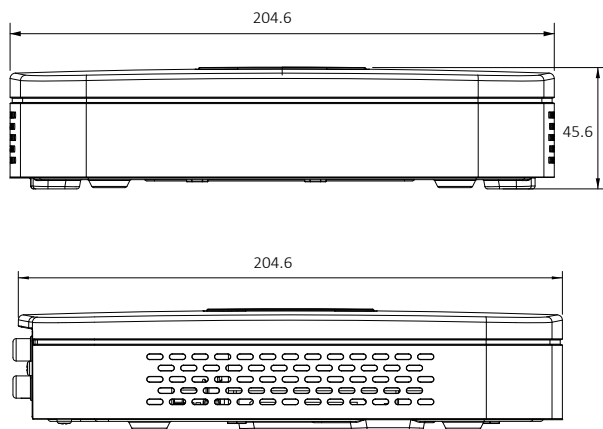
Certifications

CE	EN55032, EN55024, EN50130-4, EN60950-1
FCC	Part 15 Subpart B, ANSI C63.4-2014
UL	UL60950-1

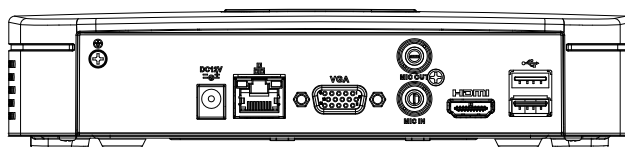
Ordering Information

Type	Part Number	Description
4 Channel NVR	DHI-NVR2104-4KS2	4 Channel Smart 1U Lite 4K H.265 Network Video Recorder
8 Channel NVR	DHI-NVR2108-4KS2	8 Channel Smart 1U Lite 4K H.265 Network Video Recorder
Accessories	N/A	N/A

Dimensions (mm)



Rear Panel



PFS3006-4ET-60

4-Port PoE Switch (Unmanaged)



Product Overview

PFS3006-4ET-60 is a 4-port fast ethernet switch, which supports 250 meters long distance PoE transmission. It provides 4*10/100Mbps PoE ports and 2*100 Mbps uplink ports. The product is equipped with two transmission modes (Default/Extend), which are controlled by DIP switch.

Features

- Layer two commercial switch
- Supports PoE power management
- Supports wall-mount installation
- Supports anti-theft lock hole
- MAC auto learning and aging, MAC address capacity is 2K
- Supports IEEE802.3, IEEE802.3u and IEEE802.3X standards
- RJ45 port supports 10/100 Mbps self-adaptation
- Supports 250 meters long distance PoE transmission
- Conforms to IEEE802.3af and IEEE802.3at power supply standard. Port 1 supports Hi-PoE 60W power supply

Technical Specification

Model	PFS3006-4ET-60
Ethernet Port	2*10/100Mbps Uplink ports 4*10/100 Mbps PoE ports
PoE Power Consumption	Port1≤60W, Port2-4≤30W, Totals≤60W
PoE PIN Assignment	1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)
PoE Power Management	Support
PoE Protocol	IEEE802.3af (PoE), IEEE802.3at (PoE+), Hi-PoE
Switching Capacity	1.8Gbps
Packet Forwarding Rate	890kpps
Packet Buffer Memory	768Kb
MAC Table Size	2K
Flow Control	Enable by default
Application Humidity	5%~95%
Power	DC 48~57V power adapter
Lightning Protection	Common Mode 2KV Differential Mode 1KV
ESD Protection	Air Discharge 8KV Contact Discharge 6KV
Working Temperature	-10°C~55°C
Weight	290g
Dimension(W×D×H)	130mm×85mm×26mm

DHI-LM24-F200

23.8" FHD Monitor



Features :

- Light and cost-effective plastic housing;
- Ultra-narrow bezel, elegant appearance, ultra-light base;
- 178°H/178°V extra-wide viewing angle for overall viewing performance;
- High fidelity digital processing for a brilliant and vivid video;
- Support multiple signal inputs including HDMI and VGA;
- Low energy consumption, long service life;



Technical Specification

Model

Model	DHI-LM24-F200
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Display

Screen Size	23.8"
Aspect Ratio	16:9
Resolution	1920×1080 (FHD)@60Hz
Backlight	W-LED
Brightness/Luminance	250 cd/㎡
Contrast	1000:1
Display Color	16.7M(8bit)
Viewing Angle(H/V)	178°(H)/178°(V)
Response time(typ.)	14ms GtG (8ms GTG(BW))

Signals

Input	VGA×1, HDMI 1.4×1
Output	Earphone(Audio out)×1

General

Power Supply	19Vdc,1.31A
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Consumption (Standard)	23W	
Consumption (Standby)	≤0.3W	
Net Weight	2.7kg(5.95lb)	
Gross Weight	4.5kg(9.92lb)	
Bezel Width	8.7mm(U), 6.25mm (R/L), 16.8mm (B)	
Wall Mount	100×100mm (3.9"×3.9")	
Package (W×H×D)	602×490×116mm (23.7"×19.3"×4.6")	
Work Environment	Temperature	0 C~40 C (32°F~104°F)
	Humidity	10%~85%

Accessory

Standard	HDMI cable, Power cable, Pedestal
Optional	Hanging bracket

Certifications

Certifications	CE/FCC
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Dimensions(mm)

