

מכרז פומבי מס' 22.2022

המועצה המקומית – דיר אל אסד מבקשת בזה להגיש הצעת מחיר עבור עבודות רכישת והתקנת מצלמות אבטחה (מעגל סגור) לבניין המועצה החדש לפי המפורט :

- על המציע להציג לפחות שני פרויקטים בהתקנת מצלמות אבטחה שבוצעו בשנתיים האחרונות בהיקפים של מעל 400,000 ש"ח כ"א, ולהציג אישור קיום ביטוחי בתוקף.
- את מסמכי המכרז ניתן לרכוש במחלקת גבייה תמורת תשלום 1000 שח שלא יוחזרו בגין המכרז.
- ההצעות תוגשנה עם כל מסמכי המכרז חתומים ע"י הקבלן המציע בצירוף ערבות בנקאית בסכום של 30,000 ₪ כולל מ.ע.מ. בתוקף עד 31.01.2023 בנוסח המצורף למסמכי המכרז, הצעה ללא צירוף ערבות בנקאית לא תובא לדיון בכלל.
- הצעה ללא הצגת קבלה על התשלום כאמור – לא תידון.
- ניתן לעיין במסמכי המכרז טרם רכישתכם במשרד המועצה המקומית ללא תשלום , או באתר המועצה שכתובתו www.deiralasad.muni.il , בכותרת מכרזים.
- **סיור קבלנים חובה** יתקיים ביום ביום ה', 24.11.2022 שעה 13:00 בבוקר בבניין המועצה החדש.
- לבירורים נוספים : נא ליצור קשר עם יועץ ומפקח הפרויקט במועצה מר' רונלד מנחיימוב , בדוא"ל : info@ori-it.co.il
- המציע הזכייין מתחייב למסירת העבודה בשלמותה עד 25.12.2022 מיום חתימת החוזה.
- **המועצה רשאית לא לקבל את ההצעה הזולה ביותר ו / או כל הצעה אחרת, כמו כן המועצה שומרת לעצמה הזכות לבטל המכרז בכללותו או כל חלק ממנו. ולא תהיה לקבלן הזכות לתבוע או לקבל כל פיצויים כתוצאה מכך.**
- הרשות רשאית לראיין את המציעים ככל שיידרש בעניין וזאת לקבלת הבהרות נוספות.
- ההצעה בסעיפים תכלול אספקה, התקנה עם כל האבזרים הנדרשים להפעלת המצלמות באופן תקין.
- ההצעה תכלול בדיקת המערכת והדרכה לגורמים הרלוונטיים במועצה.
- עבור כל הדגמים המוצעים בכתב הכמויות ניתן להגיש ציוד שווה ערך, הציוד יבחן על ידי היועץ / המתכנן של המועצה.
- ההצעה תכלול אחריות, תחזוקה ושרות למשך 24 חודשים מתאריך מסירת הפרויקט בנוסף לניקיון עדשות לפחות פעמיים בשנה.
- **את ההצעה יש להגיש חתומה במעטפה סגורה במסירה ידנית לתיבת המכרזים במשרד גזברות המועצה עד 04/12/2022 שעה 12:00 בצהריים.**

בכבוד רב יוסף אסדי – גזבר המועצה

מכרז פומבי מס 22.2022 - מצלמות אבטחה לבניין המועצה

סעיף	תיאור	מאפיינים מיוחדים	יחידת מידה	מספר יחידות במבנה מועצה	סה"כ מחיר מוצע לפני מע"מ
1	מצלמת צינור 4 מגה עדשה 2.8 - 12 משתנה קבועה	DS-2CD2T47G2-L	יח'	18	
הצעה שווה ערך					
2	מצלמת כיפה 4 מגה עדשה 2.8 - 12 קבועה	DS-2CD1153G0-I	יח'	56	
הצעה שווה ערך					
3	מצלמת LPR	DS-2CD3646G2/P-IZS	יח'	2	
הצעה שווה ערך					
4	קופסת חיבורים למצלמת IP צינור	DS-1260ZJ	יח'	20	
הצעה שווה ערך					
5	קופסת חיבורים למצלמת IP כיפה	DS-1280ZJ-DM8	יח'	56	
הצעה שווה ערך					
6	מערכת הקלטה 64 ערוצים	DS-8664NI-I8	יח'	2	
הצעה שווה ערך					
7	דיסק קשיח מותאם להקלטות וידיאו 8 טרה	WD82PURZ	יח'	8	
הצעה שווה ערך					
8	תוכנת בסיס לניהול וידיאו	Hickcentral Pro	יח'	1	
הצעה שווה ערך					

מכרז פומבי מס 22.2022 -מצלמות אבטחה לבניין המועצה

9	רישיון למצלמות	Hickcentral HCP-VSS	יח'	74	
הצעה שווה ערך					
10	רישיון למצלמות LPR	Hickcentral HCP-ANRP	יח'	2	
הצעה שווה ערך					
11	שרת מערכת	Dell Power Edge R440 Xeon 4210 16GB	יח'	1	
הצעה שווה ערך					
12	נקודת תקשורת כבל CAT7 מסוכך	-	מכלול	82	
הצעה שווה ערך					
13	ארון תקשורת U6	כולל פס שקעים, פנל שערות ופנל שקעים	מכלול	1	
הצעה שווה ערך					
14	ארון תקשורת 44U	כולל פס שקעים, פנל שערות ופנל שקעים	מכלול	1	
הצעה שווה ערך					
15	מתג רשת 48 פורט +POE מנוהל L2	-	יח'	2	
הצעה שווה ערך					
16	מסך 75"	samsung QE75Q60B	יח'	2	
הצעה שווה ערך					

מכרז פומבי מס 22.2022 - מצלמות אבטחה לבניין המועצה

17	מסך 49"	samsung UE50AU8000	יח'	1	
הצעה שווה ערך					
18	זרוע דו מפרקית	-	יח'	3	
הצעה שווה ערך					
19	כבל HDMI כולל העברה בתעלה 10 מטר	HDMI OPTIC 4K 60Hz	יח'	2	
הצעה שווה ערך					
20	מחשב קליינט כולל מסך	DELL OPTIPLEX 7000 MT I7 16GB SSD 512GB DOS מסך קעור dell S27221HGF	יח'	3	
הצעה שווה ערך					
21	טאבלט שליטה על מערכת מצלמות	Samsung Galaxy Tab s8 +5G	יח'	1	
הצעה שווה ערך					
22	מערכת כריזה	ip axis שופר c1310e	יח'	15	
הצעה שווה ערך					
	שליטה למערכת כריזה	grandstream gxv3370	יח'	3	
הצעה שווה ערך					
	מיקרופון שולחני מוגבר	-	יח'	3	
הצעה שווה ערך					
	נקודות רשת	-	יח'	18	
הצעה שווה ערך					
	סה"כ לפני מע"מ				

מכרז פומבי מס 22.2022 - מצלמות אבטחה לבניין המועצה

מפרט טכני עבוד הציוד בכתב הכמויות:

סעיף 1:

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	130 dB
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional
Iris Type	Fixed
Lens Type & FOV	2.8 mm, horizontal FOV 112°, vertical FOV 61°, diagonal FOV 134° 4 mm, horizontal FOV 95°, vertical FOV 51°, diagonal FOV 115° 6 mm, horizontal FOV 58°, vertical FOV 31°, diagonal FOV 69°
Depth of Focus	2.8 mm, 2.5 m to ∞ 4 mm, 3.5 m to ∞ 6 mm, 7.5 m to ∞
Aperture	F1.0
Lens Mount	M16
DORI	
DORI	2.8 mm, D: 58 m, O: 23 m, R: 11 m, I: 2 m 4 mm, D: 77 m, O: 30 m, R: 15 m, I: 7 m 6 mm, D: 115 m, O: 45 m, R: 23 m, I: 11 m
Illuminator	
Supplement Light Type	White Light
White Light Range	60 m
Smart Supplement Light	Yes

מכרז פומבי מס 22.2022 - מצלמות אבטחה לבניין המועצה

Video	
Max. Resolution	2688 × 1520
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) *Third stream is supported under certain settings.
Video Compression	Main stream: H.265/H.264/H.265+/H.264+ Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264 *Third stream is supported under certain settings.
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Main stream supports
H.265+	Main stream supports
Bit Rate Control	CBR/VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Network	
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface
Network Storage	MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+

מכרז פומבי מס 22.2022 - מצלמות אבטחה לבניין המועצה

Network	
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets
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Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+
Image	
SNR	≥ 52 dB
Day/Night Switch	Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
Interface	
On-Board Storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Reset Key	Yes
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Event	
Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm, exception
Smart Event	Scene change detection
Deep Learning Function	
Face Capture	Yes
Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection

מכרז פומבי מס 22.2022 - מצלמות אבטחה לבניין המועצה

General	
Linkage Method	Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email
Firmware Version	V5.5.112
Language	33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
General Function	Anti-flicker, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter
Software Reset	Yes
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Power Supply	12 VDC $\pm$ 25% PoE: 802.3af
Power Consumption and Current	12 VDC, 0.7 A, max. 8.5 W PoE (802.3af, 36 V to 57 V), 0.30 A to 0.18 A, max. 10.5 W
Power Interface	Ø5.5 mm coaxial power plug
Material	Front cover: metal, back cover: metal
Screw Material	SUS304
Dimension	Ø105 mm $\times$ 289.5 mm (Ø4.1" $\times$ 11.4")
Package Dimension	385 mm $\times$ 190 mm $\times$ 180 mm (15.2" $\times$ 7.5" $\times$ 7.1")
Weight	Approx. 1170 g (2.4 lb.)
With Package Weight	Approx. 1689 g (3.5 lb.)
Approval	
EMC	FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC VoC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 60950-1); CB (IEC 60950-1: 2005 + Am 1: 2009 + Am 2: 2013, IEC 62368-1: 2014); CE-LVD (EN 60950-1: 2005 + Am 1: 2009 + Am 2: 2013, IEC 62368-1: 2014); BIS (IS 13252(Part 1): 2010+A1: 2013+A2: 2015); LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP67 (IEC 60529-2013)

מכרז פומבי מס 22.2022 - מצלמות אבטחה לבניין המועצה

סעיף 2:

Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Max. Resolution	2560 × 1920
Min. Illumination	Color: 0.01 Lux @ (F2.0, AGC ON), B/W: 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°
Lens	
Lens Type	Fixed focal lens, 2.8 and 4 mm optional
Focal Length & FOV	2.8 mm, horizontal FOV 98.0°, vertical FOV 71.7°, diagonal FOV 127.0° 4 mm, horizontal FOV 75.3°, vertical FOV 55.5°, diagonal FOV 98.2°
Lens Mount	M12
Iris Type	Fixed
Aperture	F2.0
Illuminator	
Supplement Light Type	IR
Supplement Light Range	Up to 30 m
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 20 fps (2560 × 1920) 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 20 fps (2560 × 1920) 30 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main profile
Region of Interest (ROI)	1 fixed region for main stream
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface, ISAPI
User/Host	Up to 32 users. 3 levels: administrator, operator and user 3 user levels: administrator, operator, and user
Client	iVMS-4200, Hik-Connect
Web Browser	Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+

מכרז פומבי מס 22.2022 - מצלמות אבטחה לבניין המועצה

Image	
Image Settings	Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser
Day/Night Switch	Auto, Schedule, Day, Night
Wide Dynamic Range (WDR)	120 dB
Image Enhancement	BLC, 3D DNR
Interface	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Event	
Basic Event	Motion detection, video tampering, exception
Linkage	Upload to FTP, notify surveillance center, send email
General	
Power	12 VDC $\pm$ 25%, 0.4 A, max. 5 W, $\varnothing$ 5.5 mm coaxial power plug PoE: 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A, max. 6.5 W
Dimension	$\varnothing$ 110.8 mm $\times$ 84.7 mm (4.4" $\times$ 3.3")
Package Dimension	134 mm $\times$ 134 mm $\times$ 108 mm (5.3" $\times$ 5.3" $\times$ 4.3")
Weight	Approx. 520 g (1.1 lb.)
With Package Weight	Approx. 720 g (1.6 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Language	English, Ukrainian
General Function	Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
Approval	
EMC	FCC SDoC: 47 CFR Part 15, Subpart B; CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 50130-4: 2011+A1: 2014; RCM: AS/NZS CISPR 32: 2015; IC VoC: ICES-003: Issue 7; KC: KN 32: 2015, KN 35: 2015
Safety	UL: UL 62368-1; CB: IEC 62368-1:2014+A11; CE-LVD: EN 62368-1:2014/A11:2017; BIS: IS 13252(Part 1):2010/ IEC 60950-1: 2005
Environment	CE-RoHS: 2011/65/EU; WEEE: 2012/19/EU; Reach: Regulation (EC) No 1907/2006
Protection	IP67: IEC 60529-2013, IK10: IEC 62262:2002

מכרז פומבי מס 22.2022 - מצלמות אבטחה לבניין המועצה

סעיף 3:

Camera	
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR
Day & Night	IR cut filter
Shutter Speed	1/3 s to 1/100,000 s
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 dB
Power-off Memory	Yes
Lens	
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 108° to 30°, vertical FOV 56° to 17°, diagonal FOV 131° to 35°
Lens Type	Varifocal lens, motor-driven lens, 2.8 to 12 mm
Aperture	F1.4
Lens Mount	Ø14
Iris Type	Fixed
DORI	
DORI	2.8 to 12 mm: Wide: D: 64.0 m, O: 25.4 m, R: 12.8 m, I: 6.4 m Tele: D: 190 m, O: 75.4 m, R: 38.0 m, I: 19.0 m
Illuminator	
IR Range	Up to 60 m
IR Wavelength	Yes
Smart Supplement Light	Yes
Supplement Light Type	IR
Video	
Max. Resolution	2688 × 1520
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) *Third stream is supported under certain settings.
Video Compression	Main stream: H.265/H.264/H.265+/H.264+ Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264 *Third stream is supported under certain settings.
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Main Stream supports
H.265+	Main stream supports

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Bit Rate Control	CBR/VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Audio	
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC)
Network	
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface
Network Storage	MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+
Image	
SNR	≥ 52 dB
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
Interface	
Alarm	1 input, 1 output (max. 24 VDC/24 VAC, 1 A)
Audio	1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium; 1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
On-Board Storage	Built-in micro SD slot, up to 256 GB
Hardware Reset	Yes
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port

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Event	
Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm, exception
Smart Event	Scene change detection
Deep Learning Function	
Face Capture	Yes
Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection
General	
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Power Supply	12 VDC $\pm$ 25%, reverse polarity protection PoE: 802.3at, Class 4
Power Consumption and Current	12 VDC, 1.08 A, max. 13 W PoE (802.3at, 42.5 V to 57 V), 0.36 A to 0.27 A, max. 15 W
Power Interface	Two-core terminal plug
Camera Material	ADC12
Camera Dimension	$\varnothing 144.1 \text{ mm} \times 345.7 \text{ mm}$ ($\varnothing 5.7" \times 13.6"$)
Package Dimension	$385 \text{ mm} \times 190 \text{ mm} \times 180 \text{ mm}$ ($15.2" \times 7.5" \times 7.1"$)
Camera Weight	Approx. 1445 g (3.2 lb.)
With Package Weight	Approx. 2571 g (5.7 lb.)
Linkage Method	Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email, audible warning
Web Client Language	33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
General Function	Anti-flicker, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter
Software Reset	Yes
Firmware Version	V5.5.112
Approval	
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 60950-1); CB (IEC 60950-1: 2005 + Am 1: 2009 + Am 2: 2013); CE-LVD (EN 60950-1: 2005 + Am 1: 2009 + Am 2: 2013); LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP66 (IEC 60529-2013), IK10 (IEC 62262:2002)

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סעיף 4:

Model	DS-1260ZJ
Parameters	Junction Box for Bullet Camera
Appearance	Hikvision White
Material	Aluminum Alloy
Dimension	Φ 88.5 mm
Weight	251g

סעיף 5:

Model	DS-1280ZJ-DM8
Parameters	Junction Box for Dome Camera
Appearance	Hikvision White
Material	Aluminum Alloy
Dimension	Φ 126.7 mm × 35 mm (4.99" × 1.38")
Weight	Approx.: 210 g (0.46 lb.)

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סעיף 6:

Model		DS-9608NI-I8	DS-9616NI-I8	DS-9632NI-I8	DS-9664NI-I8
Video/Audio input	IP video input	8-ch	16-ch	32-ch	64-ch
		Up to 12 MP resolution			
	Two-way audio	1-ch, RCA (2.0 Vp-p, 1 k Ω)			
Network	Incoming bandwidth	128 Mbps	256 Mbps or 200 Mbps (when RAID is enabled)	320 Mbps	320 Mbps
	Outgoing bandwidth	256 Mbps, or 200 Mbps (when RAID is enabled)			
	Remote connection	128			
Video/Audio output	Recording resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF			
	CVBS output (Optional)	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480			
	VGA1 /HDMI1 output resolution	HDMI1: 4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080p/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz VGA1: 2K (2560 × 1440)/60Hz, 1920 × 1080p/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz			
	VGA2 /HDMI2 output resolution	1920 × 1080p/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz			
	Audio output	2-ch, RCA (2.0Vp-p, 1 KΩ)			
Decoding	Decoding format	H.265/H.265+/H.264/H.264+/MPEG4/MJPEG			
	Live view/Playback resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF			
	Synchronous playback	8-ch	16-ch		
	Capability	4-ch @ 4K or 16-ch @ 1080p			
Network management	Network protocols	TCP/IP, DHCP, HIK Cloud P2P, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS, RTP, UDP/IP, HTTP, FTP, SNMP			
Hard disk	SATA	8 SATA interfaces – NAS storage DS-A81024D HOT PLUG 24HDD SATA (6TB each) is optional			
	eSATA	1 eSATA interface			
	Capacity	Up to 6TB capacity for each HDD			
Disk array	Array type	RAID0, RAID1, RAID5, RAID6, RAID10			
	Number of arrays	4			
External interface	Network interface	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface			
	Serial interface	RS-232; RS-485; Keyboard			
	USB interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0			
	Alarm in/out	16/4			
General	Power supply	100 to 240 VAC, 50 to 60 Hz			
	Max. Power	200 W			
	Consumption (without hard disk)	≤ 30 W			
	Working temperature	-10 to +55° C (+14 to +131° F)			
	Working humidity	10 to 90 %			
	Chassis	19-inch rack-mounted 2U chassis			
	Dimensions(W × D × H)	445 × 470 × 90 mm (17.5" × 18.5" × 3.5")			
	Weight (without hard disk)	≤ 10 kg (22 lb)			

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טעף 7:

Model Number³	WD84PURZ
Formatted capacity ⁴	8TB
Form factor	3.5-inch
Advanced Format (AF)	Yes
Recording Technology	CMR
RoHS compliant ⁵	Yes
Product Features	
Cameras supported ¹³	Up to 64 HD ¹⁴
Drive Bays Supported	16
AI Streams	16
Firmware Feature Name	AllFrame
Tarnish resistant components	Yes
Performance	
Interface transfer rate (max) ⁴	
Buffer to host	6 Gb/s
Host to/from drive (sustained)	194 MB/s
Cache (MB) ⁴	128
Reliability/Data Integrity	
Load/unload cycles ⁶	300,000
Annualized workload rating ⁷	180TB/yr
Non-recoverable read errors per bits read	<1 in 10 ¹⁴
MTBF	1,000,000
Limited warranty (years) ⁸	3
Power Management⁹	
Average power requirements (W)	
Read/Write	6.2
Idle	5.5
Standby and Sleep	0.4

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Environmental Specifications¹⁰

Temperature (°C, on the base casting)	
Operating ¹¹	0 to 65
Non-operating	-40 to 70
Shock (Gs)	
Operating (2 ms, read/write)	30
Operating (2 ms, read)	65
Non-operating (2 ms)	250
Acoustics (dBA) ¹²	
Idle	25
Seek (average)	30

Physical Dimensions

Height (in./mm, max)	1.028/26.1
Length (in./mm, max)	5.787/147
Width (in./mm, ± .01 in.)	4/101.6
Weight (lb/kg, ± 10%)	1.58/0.72

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סעיף 8:

Features		Maximum Performance
General	Cameras	Centralized Deployment: 3,000 ^① Distributed Deployment: 10,000 ^② Central System (RSM): 100,000 ^③
	Managed Device IP Addresses *Including Encoding Devices, Access Control Devices, Elevator Control Devices, Security Control Devices, and Remote Sites	Centralized Deployment: 1,024 ^① Distributed Deployment: 2,048 ^②
	Alarm Inputs (Including Alarm Inputs of Security Control Devices)	3,000
	Alarm Outputs	3,000
	Dock Stations	1,500
	Security Control Devices	16
	Security Radars	10
	Alarm Inputs of Security Control Devices	2,048
	DS-5600 Series Face Recognition Terminals When Applied with Hikvision Turnstiles	32
	Facial Recognition Servers	64
	Recording Servers	64
	Streaming Servers	64
	Security Audit Server	8
	DeepinMind Server	64
	ANPR Cameras	3,000
	People Counting Cameras	Recommended: 300
	Heat Map Cameras	Recommended: 70
	Thermal Cameras	Recommended: 20 ^④
	Queue Management Cameras	Recommended: 300
	Areas	3,000
	Cameras per Area	256
	Alarm Inputs per Area	256
	Alarm Outputs per Area	256
Recording	Recording Schedule	10,000
	Recording Schedule Template	200
Event & Alarm	Event and Alarm Rules	Centralized Deployment: 3,000 Distributed Deployment: 10,000 Central System (RSM): 10,000
	Storage of Events or Alarms without Pictures	Centralized Deployment: 100/s

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		Distributed Deployment: 1000/s
	Events or Alarms Sent to Clients <i>*The clients include Control Clients and Mobile Clients.</i>	120/s 100 Clients/s
	Arming Schedule Templates	200
Picture	Picture Storage <i>*Including event/alarm pictures, face pictures, and vehicle pictures.</i>	20/s (Stored in SYS Server) 120/s (Stored in Recording Server)
Reports	Regular Report Rules	100
	Event or Alarm Rules in One Event/Alarm Report Rule	32
	Records in One Sent Report	10,000 or 10 MB
	Resources Selected in One Report <i>*With this limitation, you can generate a neat and clear report via the Control Client and it costs less time.</i>	20
Data Storage	Data Retention Period	Stored for 3 Years
	People Counting	5 million
	Heat Map	0.25 million
	ANPR	60 million
	Events	60 million
	Alarms	60 million
	Access Records	1.4 billion
	Attendance Records	55 million
	Visitor Records	10 million
	Operation Logs	5 million
	Service Information Logs	5 million
	Service Error Logs	5 million
	Recording Tags	60 million
Users and Roles	Concurrent Accesses via Web Clients, Control Clients, and OpenAPI Clients	100
	Concurrent Accesses via Mobile Clients and OpenAPI Clients	100
	Users	3,000
	Roles	3,000
Vehicle (ANPR)	Vehicle Lists	100
	Vehicles per Vehicle List	5,000
	Under Vehicle Surveillance Systems	4
	Vehicle Undercarriage Pictures	3,000
Face Comparison	Persons with Profiles for Face Comparison	1,000,000
	Face Comparison Groups	64
	Persons in One Face Comparison Group	1,000,000
Access Control	Persons with Credentials for Access Control	50,000

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	Visitors	10,000
	Total Credentials (Card + Fingerprint)	250,000
	Cards	250,000
	Fingerprints	200,000
	Profiles	50,000
	Access Points (Doors + Floors)	512
	Access Groups	256
	Persons in One Access Group	10,000
	Access Levels	128
	Access Schedules	32
Time and Attendance	Persons for Time and Attendance	10,000
	Attendance Groups	256
	Persons in One Attendance Group	10,000
	Shift Schedules	128
Smart Wall	Decoding Devices	32
	Smart Walls	32
	Views	1,000
	View Groups	100
	Views in One View Group	10
	Cameras in One View	256
	Views Auto-Switched Simultaneously	32
Streaming Server's Maximum Performance		
Video Input Bandwidth per Streaming Server		300 × 2 Mbps
Video Output Bandwidth per Streaming Server		300 × 2 Mbps

High-End
Intel® Xeon® Silver 4110 @ 2.10 GHz
16 GB
GbE Network Interface Card
SATA-II 7200 RPM Enterprise Class HDD
Enterprise-class HDD or high performance network HDD It should support 20 MB/s writing and 20 MB/s reading.
At least 650 GB
Microsoft® Windows Server 2012 (R2) 64-bit
Amazon AWS EC2 Instance: c5.2xlarge CPU: Intel® Xeon® Platinum 800 @3.40 GHz vCPU Count: 8 RAM: 16 GB Storage: HDD NIC: 10 Gbps



GS48P4F740

L2+ Managed GbE PoE Switch

GS48P4F740 L2+ Managed PoE+ Switch is a next-generation Ethernet Switch offering full suite of L2 features, better PoE functionality and usability, including advanced L3 features such as Static Route that delivers better cost performance and lower total cost of ownership in Enterprise networks via fiber or copper connections.

GS48P4F740 delivers 48 (10M/100M/1G) RJ45/PoE+ (Support 802.3at/af, and total up to 740W) ports, 4 GbE SFP ports and RJ45 Console port. GS48P4F740 provides high HW performance and environment flexibility for SMBs and Enterprises.

GS48P4F740 is ideal to deliver management simplicity, intuitive user experience, and lower total cost of ownership. The embedded Device Managed System is designed to be extremely easy-to-use/manage/install IP Phone, IP Cam, or Wifi-AP for Enterprise Applications.

Specifications -

- L2+ Managed features provide easier manageability, robust security and QoS.
- Built in Device Management System (DMS)
- DHCP Server
- IPv4/IPv6 Management
- PoE Port configuration and scheduling
- 802.3at high power PoE plus standard
- IEEE 802.3az EEE Energy Efficient Ethernet standard for green Ethernet



Benefits

- Feature-rich Ethernet Switch for Enterprise-class

The switch delivers advanced functionality in L2+ managed switch including Layer 3 static route, DHCP server, IPv6 support, LLDP, etc. It also has comprehensive security features such as IP source guard and ACL to guard your network from unauthorized access.

It helps users to build on the market-leading price/performance with L2+ Managed GbE PoE switch, and provide secure, reliable and ease of use for enterprise/SMB deployments.

- Easy to Install, Configure and Troubleshoot by Device Management System

The DMS provides embedded functions to facilitate devices management at anytime and anywhere. Its user-friendly interface helps users to manage devices intuitively.

It supports various IP device types (e.g. IP-phone, IP-camera, WiFi-AP) for end users to enhance manageability and save time/cost during installation/maintenance stages.

- Lower Total Cost of Ownership (TCO) with Energy-efficient Design

It is designed to help customers to reduce power consumption and lower the TCO by Energy Efficient Ethernet (IEEE 802.3az) features. It can be used for customers to build a green Ethernet networking environment.

- Advanced Power over Ethernet Management

The model includes PoE+ options to power IP devices with power-saving features like Power scheduling and PoE configuration.

are connected to different circuits. Reduce network operating risk.

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Port Configuration

Total Ports	RJ45 (10M/100M/1G)	Uplinks (100M/1G)	Console
52	48	4 SFP	RJ45

Hardware Performance

Forwarding Capacity	Switching Capacity	Mac Table	Jumbo Frames
77.38 Mpps	104 Gbps	32 K	10240 Bytes

Environmental Range

Operating Temperature		Storage Temperature		Altitude	
Fahrenheit	Centigrade	Fahrenheit	Centigrade	Feet	Meters
32 to 104	0 to 40	-4 to 158	-20 to 70	< 10000.	< 3000

Dimension, Weights, Humidity

Dimension (WxHxD)		Weight		Operating Humidity
Millimeter	Inches	Kilograms	Pounds	
442x 44x 375	17.4x 1.7x 14.8	5.6	12.3	10% to 90% non-condensing

Voltage and Frequency

AC Input Voltage and Frequency	
Voltage	100-240 VAC
Frequency	50~60 Hz

PoE Power Capacity

Available PoE Power	Number of Ports That Support PoE(15.4W) and PoE+(30.0W)
740W	Each of port 1 - 48 support PoE/ PoE+ within available PoE Power

Certification

Electromagnetic Emissions (EMC)
EN61000-4-5 (for RJ45 Port, Surge 6KV)
CE, FCC Part 15 Class A

Software Features

Layer 2 Switching	
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w Multiple Spanning Tree (MSTP) 802.1s
Trunking	Link Aggregation Control Protocol (LACP) IEEE 802.3ad Up to 26 groups Up to 16 ports per group
VLAN	Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs) Port-based VLAN 802.1Q tag-based VLAN MAC-based VLAN Management VLAN Private VLAN Edge (PVE) Q-in-Q (double tag) VLAN

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	Voice VLAN GARP VLAN Registration Protocol (GVRP)
DHCP Relay	Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82
IGMP v1/v2/v3 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters. Supports 1024 multicast groups
IGMP Querier	IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router
IGMP Proxy	IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router
MLD v1/v2 Snooping	Delivers IPv6 multicast packets only to the required receivers
Device Management System (DMS)	
Graphical Monitoring	Topology view: Support intuitive way to configure and manage switches and devices with visual relations Floor view: It's easy to drag and drop PoE devices and help you to build smart workforces Map view: Enhance efficiency to drag and drop devices and monitor surroundings on google map
Find my Switch	Search your real switches quickly and manage directly.
Traffic Monitoring	Display visual chart of network traffic of all devices and monitor every port at any time from switches
Trouble Shooting	Network diagnostic between master switch and devices Support protection mechanism, such as rate-limiting to protect your devices from brute-force downloading
Layer 3 Switching	
IPv4 Static Routing	IPv4 Unicast: Static routing
IPv6 Static Routing	IPv6 Unicast: Static routing
Security	
Secure Shell (SSH)	SSH secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported
Secure Sockets Layer (SSL)	SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch
IEEE 802.1X	IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions Supports IGMP-RADIUS based 802.1X Dynamic VLAN assignment
Layer 2 Isolation Private VLAN Edge	PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks
Port Security	Locks MAC addresses to ports, and limits the number of learned MAC address
IP Source Guard	Prevents illegal IP address from accessing to specific port in the switch
RADIUS/TACACS+	Supports RADIUS and TACACS+ authentication. Switch as a client

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Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
DHCP Snooping	A feature acts as a firewall between untrusted hosts and trusted DHCP servers
ACLs	Supports up to 256 entries. Drop or rate limitation based on: Source and destination MAC, VLAN ID or IP address, protocol, port, Differentiated services code point (DSCP) / IP precedence TCP/ UDP source and destination ports 802.1p priority Ethernet type Internet Control Message Protocol (ICMP) packets TCP flag
Quality of Service	
Hardware Queue	Supports 8 hardware queues
Scheduling	Strict priority and weighted round-robin (WRR) Queue assignment based on DSCP and class of service
Classification	Port based 802.1p VLAN priority based IPv4/IPv6 precedence / DSCP based Differentiated Services (DiffServ) Classification and re-marking ACLs
Rate Limiting	Ingress policer Egress shaping and rate control Per port
Management	
DHCP Server	Support DHCP server to assign IP to DHCP clients
Remote Monitoring (RMON)	Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis
Port Mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported.
UPnP	The Universal Plug and Play Forum, an industry group of companies working to enable device-to-device interoperability by promoting Universal Plug and Play
s-Flow	The industry standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats
IEEE 802.1ab (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network Support LLDP-MED extensions
Web GUI Interface	Built-in switch configuration utility for browser-based device configuration
CLI	For users to configure/manage switches in command line modes
Dual Image	Independent primary and secondary images for backup while upgrading
SNMP	SNMP version 1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)

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Firmware Upgrade	Web browser upgrade (HTTP/ HTTPS) and TFTP Upgrade through console port as well
NTP	Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched
Other Management	HTTP/HTTPS; SSH DHCP Client/ DHCPv6 Client Cable Diagnostics Ping Syslog Telnet Client IPv6 Management
Power over Ethernet (PoE)	
Port Configuration	Supports per port PoE configuration function
PoE Scheduling	Supports per port PoE scheduling to turn on/off the PoE devices (PDs).
Auto-checking	Check the link status of PDs. Reboot PDs if there is no responses.
Power Delay	The switch provides power to the PDs based on delay time when PoE switch boots up, in order to protect switch from misuse of the PDs