DS-2ST4C420MWG-E/14(PA)
Polymer 4MP 20X TandemVu PTZ





Hikvision has been dedicated to develop products with security since established.
Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security defense capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 4 MP resolution for bullet channel, 4MP for PTZ channel
- 24/7 colorful imaging and excellent low-light performance with DarkFighter technology
- Smart linkage between Bullet and PTZ channels by event triggering
- Secures an expansive area with 20× optical zoom
- Expansive night view with up to 30 m white light distance and 100 m IR distance
- Audio visual alarm: The white flashing light and audible warning can be triggered by certain events

▪ Specification

Camera	
Image Sensor	[Bullet channel] 1/2.8" Progressive Scan CMOS, [PTZ channel] 1/2.8" Progressive Scan CMOS
Min. Illumination	[Bullet channel] Color: 0.004 Lux @ (F1.0, AGC ON), B/W: 0.0007 Lux @ (F1.0, AGC ON), 0 Lux with light, [PTZ channel] Color: 0.03 Lux @ (F2.6, AGC ON), B/W: 0.01 Lux @ (F2.6, AGC ON), 0 lux with IR
Shutter Speed	1 s to 1/30000 s
Slow Shutter	Yes
Day & Night	[Panoramic channel] Color, [PTZ channel] IR cut filter
Zoom	20 × optical,4 × digital
Max. Resolution	[Panoramic channel] 2688 × 1520, [PTZ channel] 2688 × 1520
Lens	
FOV	[Panoramic channel] horizontal field of view: 80.2°, vertical field of view: 43.2°, diagonal field of view: 94.9°, [PTZ channel] horizontal field of view: 59° to 4°, vertical field of view: 33.8° to 2.3°, diagonal field of view: 66.8° to 4.6°
Focus	Auto,semi-auto,manual
Zoom Speed	[Panoramic channel] No, [PTZ channel] approx. 3.6 s
Focal Length	[Panoramic channel] 4 mm, [PTZ channel] 4.3 to 86 mm
Aperture	[Panoramic channel] F1.0, [PTZ channel] F2.6
Illuminator	
Supplement Light Type	Hybrid(IR + White Light)
Supplement Light Range	[Panoramic channel] white light: up to 30 m, [PTZ channel] IR: up to 100 m + white light: up to 30 m
Smart Supplement Light	Yes
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	[Panoramic channel] 6° to 18°, [PTZ channel] -10° to 90°
Pan Speed	[PTZ channel] pan speed: configurable from 0.1° to 35°/s, preset speed: 35°/s
Tilt Speed	[PTZ channel] tilt speed: configurable from 0.1° to 30°/s, preset speed 30°/s,[Panoramic channel] tilt speed configurable
Proportional Pan	[Panoramic channel] No, [PTZ channel] Yes
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
Power-off Memory	Yes
Park Action	Preset,pattern scan,patrol scan,auto scan,tilt scan,random scan,frame scan,panorama scan
3D Positioning	Yes
PTZ Status Display	Yes
Preset Freezing	No
Scheduled Task	Preset,pattern scan,patrol scan,auto scan,tilt scan,random scan,frame scan,panorama scan,dome reboot,dome adjust,aux output

Video	
Main Stream	[Panoramic channel] 50 Hz: 20 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 20 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) [PTZ channel] 50 Hz：20 fps（ 2688 x1520，2560 × 1440，1920 × 1080，1280 × 960，1280 × 720） 60 Hz：20 fps（ 2688 x1520，2560 × 1440，1920 × 1080，1280 × 960，1280 × 720）
Sub-Stream	[PTZ channel] 50 Hz: 20 fps (704 × 576，640 × 480，352 × 288), 60 Hz: 20 fps (704 × 576，640 × 480，352 × 288),[Panoramic channel] 50 Hz: 20 fps (704 × 576，640 × 480，352 × 288), 60 Hz: 20 fps (704 × 576，640 × 480，352 × 288)
Video Compression	Main stream: H.265/H.264/H.265+/H.264+, Sub-stream: ：H.265/H.264/MJPEG, Third stream: no
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline profile,Main profile,High profile
H.265 Type	Main profile
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed regions for each stream
Audio	
Audio Compression	G.711,G.722.1,G.726,MP2L2,PCM,AAC-LC
Audio Bit Rate	32 to 160 Kbps (MP2L2),16 to 64Kbps (AAC-LC),16 Kbps (G.722.1),64 Kbps (G.711),16 Kbps (G.726)
Audio Sampling Rate	8 kHz,16 kHz
Environment Noise Filtering	Yes
Network	
Network Storage	NAS (NFS, SMB/CIFS)
Protocols	DDNS,DNS,RTCP,UDP,RTP,RTSP,802.1X,HTTP,FTP,QoS,HTTPS,SNMP,PPPoE,SSL/TLS,TCP/IP,IPv4/IPv6,IGMP,NTP,ICMP,DHCP,UPnP
Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users. 3 user levels: administrator, operator, and user
Security	IP address filter,Password protection,complicated password,WSSE and digest authentication for ONVIF, RTP/RTSP over HTTPS,watermark,basic and digest authentication for HTTP/HTTPS,security audit log,802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5),TLS 1.2/1.3,control timeout settings,HTTPS encryption
Client	iVMS-4200,Hik-Connect
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome 41.0+, Firefox 30.0+
Image	
Wide Dynamic Range (WDR)	Digital WDR
Day/Night Switch	Day,night,auto,schedule
Privacy Mask	[Panoramic channel] 8 programmable polygon privacy masks, [PTZ channel] 24 programmable polygon privacy masks; mask color or mosaic configurable
Image Enhancement	HLC,3D DNR,BLC
Defog	Digital defog

Regional Exposure	Yes
Regional Focus	[Panoramic channel] No, [PTZ channel] Yes
Image Settings	brightness,saturation,gain,sharpness,white balance,contrast,adjustable by client software or web browser
Image Parameters Switch	Yes
SNR	≥ 52 dB
Supplement Detection	
Satellite Positioning	No
Gyroscope	No
Compass	No
Interface	
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512GB
Built-in Microphone	1 built-in microphone
Built-in Speaker	1 built-in speaker
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Alarm	2 input(s), 1 output(s)
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 KΩ ± 10%, 1 output (line out), line level, output impedance: 600 Ω
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset	Yes
Event	
Basic Event	video tampering alarm,exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error),alarm input and output,Motion detection
Linkage	[Panoramic channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, audible warning, white light flashing, [PTZ channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, and PTZ actions (such as preset, patrol scan, pattern scan)
Linkage and Tracking	
Smart Linkage	tracking takeover, linked tracking capture
General	
Power	12VDC± 15%, max. 25 W (Max. 25 W, including max. 3.8 W for light and max. 5 W for heater) PoE 802.3at, type2, class4, max. 25 W (Max. 25 W, including max. 3.8W for light and max. 5 W for heater)
Material	PA*+50% glass fiber,PC+10%GF
General Function	mirror
Operating Condition	-30 °C to 65 °C (-22 °F to 149 °F). Humidity 95% or less (non-condensing),For speaker: -30 °C to 55°C (-22°F to 131°F)
Wiper	No
Demist	Yes
Dimension	Ø204 mm × 313 mm (Ø8.031" × 12.33")
Weight	Approx. 2.4 kg (5.29 lb.)
Language	English

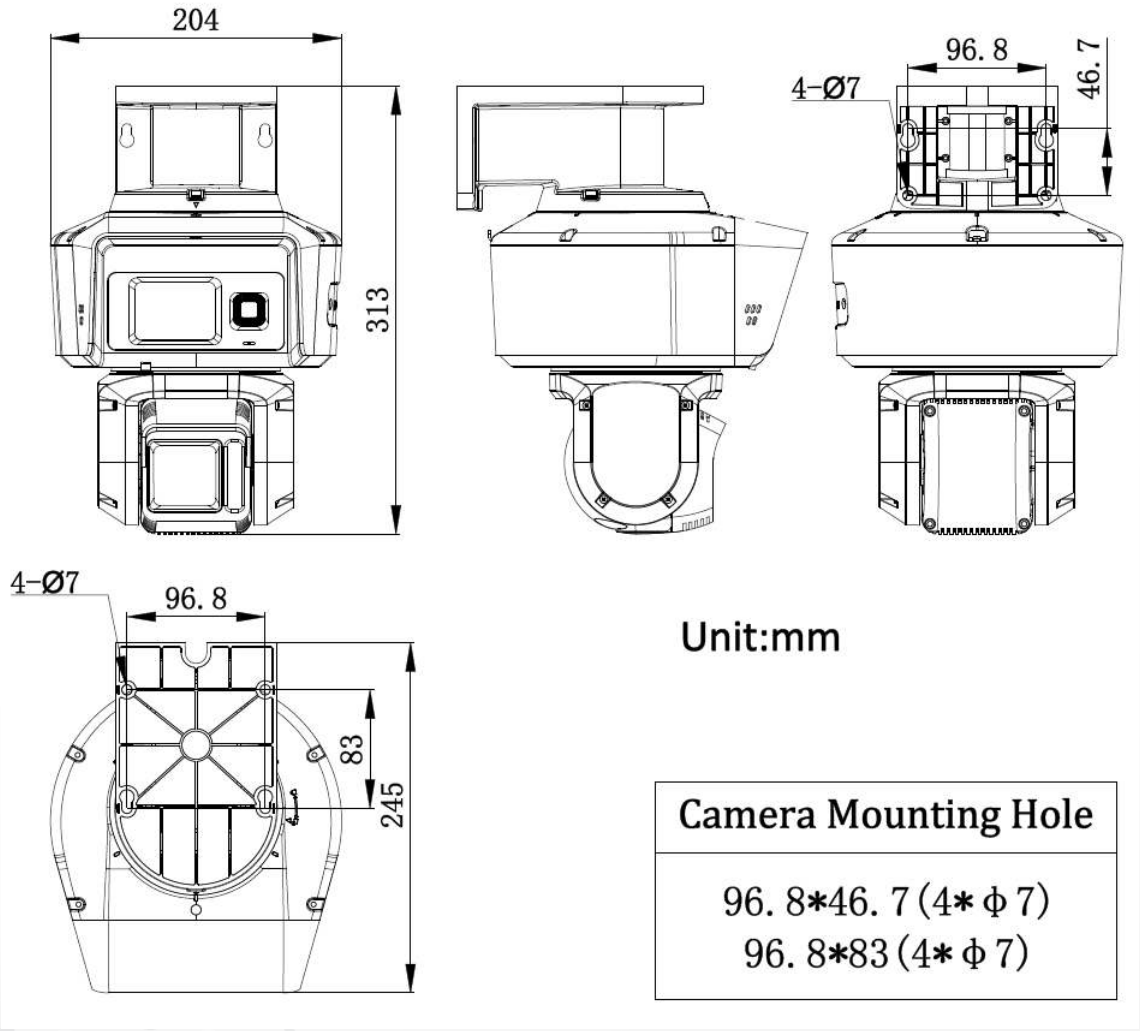
Approval	
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013 + A1: 2019, EN 50130-4: 2011 + A1: 2014)
Safety	CB (IEC 62368-1: 2014 + A11),CE-LVD (EN 62368-1: 2014/A11: 2017)
Environment	CE-RoHS (2011/65/EU),WEEE (2012/19/EU),Reach (Regulation (EC) No 1907/2006)
Protection	IP67 (IEC 60529-2013),TVS 6000 V lightning protection, surge protection and voltage transient protection
Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018)

▪ DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
[Bullet channel] Distance	80m (262.47ft.)	31.2 m (102.36 ft.)	16 m (52.49 ft.)	8 m (26.24 ft.)
[PTZ channel] Distance (Tele)	1720 m (5643.04 ft.)	682.5 m (2026 ft.)	344 m (1128.61 ft.)	172 m (560.3 ft.)

▪ Dimension



▪ Accessory

▪ Optional

DS-4630ZJ(B)-GSY	DS-4680ZJ-GP
	

See Far, Go Further

www.hikvision.com
support@hikvision.com

© Hangzhou Hikvision Digital Technology Co., Ltd. Unless otherwise agreed, Hikvision makes no warranties, express or implied. We reserve the right to introduce modifications without notice.

HIKVISION®