

DS-2SF8C432MXG-WD/4G/14(F1)(LA)**TandemVu 8C Series 4MP 32X Water-Level Detection 4G Darkfighter Network Speed Dome**

- Built-in gauge reading algorithm to automatically get the readings of standard water level gauges
- Detects water level range from 0 to 40 m, within 80 m distance, with minimum scale of 1 cm and detection accuracy of ± 2 cm
- Performance mode, power saving mode, and sleep mode are available, the minimum power consumption is within 5 W
- With high accuracy PT system, the moving hysteresis error is less than 0.08°
- The platform can wake up the device via remote command in sleep mode
- Support 4G network transmission
- High quality imaging with max. resolution of 2560×1440 @30 fps

▪ Specification

Camera	
Image Sensor	[Bullet channel] 1/1.8" Progressive Scan CMOS, [PTZ channel] 1/1.8" Progressive Scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	[Bullet channel] Color: 0.0005 Lux @ (F1.0, AGC ON), B/W: 0.0001 Lux @ (F1.0, AGC ON), 0 Lux with IR, [PTZ channel] Color: 0.0005 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux @ (F1.5, AGC ON), 0 lux with IR
Shutter Speed	1/1~1/30000 s
Day & Night	[Bullet channel] 24/7 color imaging, [PTZ channel] IR cut filter
Zoom	[PTZ channel] 32 × optical, 16 × digital
Slow Shutter	yes
Lens	
Focal Length	[Bullet channel] 4 mm, [PTZ channel] 7.1 to 227.2 mm
FOV	[Bullet channel]: 90°, [PTZ channel]: approx. 60.2° to 2.3° (wide-tele)
Focus	semi-auto, manual, auto
Aperture	[Bullet channel] F1.0, [PTZ channel] F1.5
Zoom Speed	[Bullet channel] No, [PTZ channel] approx. 5.6 s
Illuminator	
Supplement Light Range	[Bullet channel] white light: up to 30 m, [PTZ channel] IR: up to 200 m
Smart Supplement Light	yes
PTZ	
Movement Range (Pan)	[PTZ channel] 0° to 360°
Movement Range (Tilt)	[PTZ channel] -20° to 90°
Pan Speed	[PTZ channel] pan speed: configurable from 0.1° to 160°/s, preset speed: 240°/s
Tilt Speed	[PTZ channel] tilt speed: configurable from 0.1° to 120°/s, preset speed 200°/s
Proportional Pan	[Bullet channel] No, [PTZ channel] Yes
Presets	300
Preset Freezing	yes
Patrol Scan	8 patrols
Pattern Scan	4 pattern scans
Park Action	preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan
3D Positioning	yes
PTZ Status Display	yes
Scheduled Task	preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output
Power-off Memory	yes
Video	
Main Stream	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)

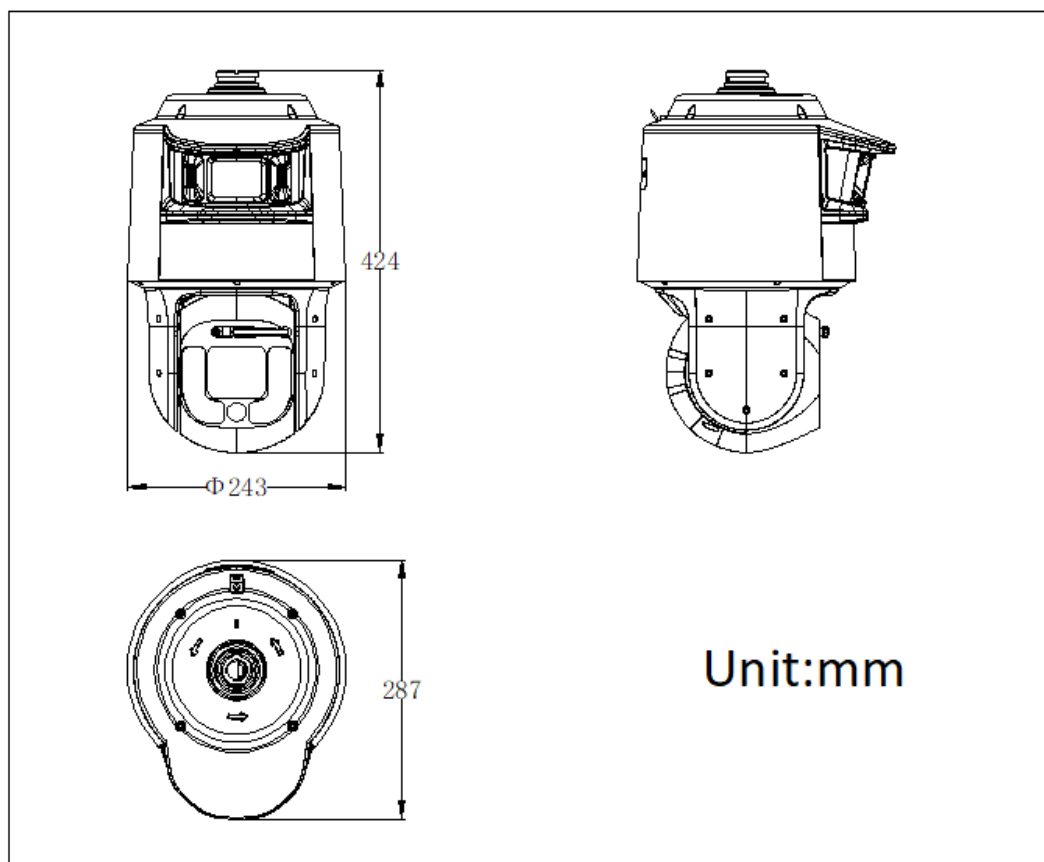
Video Compression	H.265,H.264,MJPEG
Video Bit Rate	32 to 16384 Kbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	Main Profile
Scalable Video Coding (SVC)	yes
Region of Interest (ROI)	fixed region
Audio	
Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, AAC-LC, PCM
Audio Bit Rate	MP2L2: 32 kbps, 40 kbps, 48 kbps, 56 kbps, 64 kbps, 80 kbps, 96 kbps, 112 kbps, 128 kbps, 144 kbps, 160 kbps, 192 kbps, AAC-LC: 16 kbps, 32 kbps, 64 kbps
Audio Sampling Rate	MP2L2: 16 kHz, 32 kHz, 48 kHz, AAC-LC: 16 kHz, 32 kHz, 48 kHz, PCM: 8 kHz, 16 kHz, 32 kHz, 48 kHz
Environment Noise Filtering	yes
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, websocket, websockets
Simultaneous Live View	20
API	ISUP, Open-ended API, ISAPI, Hikvision SDK, Ehome, Open Network Video Interface
User/Host	32
Security	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter
Network Storage	ANR, NAS (NFS, SMB/CIFS)
Client	iVMS-4200
Web Browser	IE 10+, Chrome 57+, Firefox 52+, Safari 12+
Wireless (Mobile Communication)	
Mobile Communication Type	4G
Frequency	GSM: Band3, Band8 EVDO/CDMA: Band5 WCDMA: Band1, Band8 TD-SCDMA: Band34, Band39 LTE-TDD: Band34, Band38, Band39, Band40, Band41 LTE-FDD: Band1, Band3, Band5, Band8
Standard	LTE-TDD, LTE-FDD, TD-SCDMA, WCDMA, CDMA, EVDO, GSM
SIM	nano sim
Image	
Image Parameters Switch	yes
Image Settings	saturation, brightness, contrast, sharpness
Day/Night Switch	day, night, auto, scheduled-switch
Wide Dynamic Range (WDR)	120 dB WDR
SNR	≥52dB
Defog	Optical defog
Image Stabilization	yes
Image Enhancement	BLC, HLC, 3D DNR
Privacy Mask	[Bullet channel] No, [PTZ channel] 24 programmable polygon privacy masks; mask color or mosaic configurable
Regional Focus	[Bullet channel] No, [PTZ channel] Yes

Regional Exposure	yes
Supplement Detection	
Satellite Positioning	No
Gyroscope	yes
Interface	
Ethernet Interface	1 RJ45 100M self-adaptive Ethernet port
On-board Storage	Built-in memory card slot, support microSD/SDHC/SDXC card, up to 256 GB
Built-in Speaker	1 built-in speaker
Audio	1 audio input, 2.0 to 2.4 Vp-p, 1k Ohm±10%, 1 audio output, line level, impedance: 600 Ω
Alarm	7 alarm inputs, 2 alarm output
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive
Reset	yes
Event	
Basic Event	audio exception, video tampering alarm, alarm in, alarm out, exceptions
Linkage	Upload to FTP/NAS/memory card, audible warning, preset, patrol scan, pattern scan, send email, notify surveillance center, white light flashing, trigger alarm output, trigger recording
Deep Learning Function	
Multi-Target-Type Detection	[Bullet channel] no, [PTZ channel] Supports simultaneous detection and capture of human body, face and vehicle
Water Level	
Detection Distance	≤100 m
Water Level Range	0 to 40 m
Minimum Scale	1 cm
Detection Accuracy	±2 cm
General	
Power	12 VDC/5 A max. 60 W (including 6 W for heater and 6 w for supplement light in panoramic channel, and 6 W for heater and 12 w for supplement light in PTZ channel)
Dimension	Ø243 mm × 424 mm (Ø9.57" × 16.69")
Weight	Approx. 9.845 kg (21.7 lb.)
Material	ADC12
Operating Condition	-40 °C to 70 °C (-40 °F to 158 °F). Humidity 90% or less (non-condensing) Operationg temperature for the speaker: -30 °C to 55 °C (-22 °F to 131 °F).
General Function	mirror, password protection, watermark, IP address filter
Wiper	yes
Demist	yes
Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
Approval	
Protection	IP67 (IEC 60529-2013), TVS 6000 V lightning protection, surge protection and voltage transient protection

▪ **Available Model**

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▪ **Dimension**

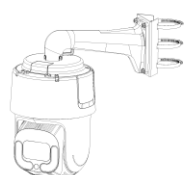
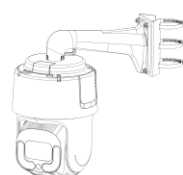
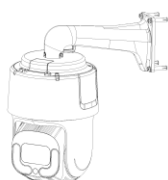


▪ **Accessory**

▪ **Optional**

DS-2HZ3A12-Y	DS-1668ZJ-P	DS-1673ZJ-P	DS-1603ZJ-Pole-P	DS-1603ZJ-P
DS-1619ZJ-HP2	DS-1668ZJ(20)-P	DS-1684ZJ-P		

▪ **Installation Methods**

Pendant Mounting DS-1668ZJ-P		Pendant Mounting DS-1668ZJ(20)-P	Horizontal Pole Mounting DS-1673ZJ-P+DS-1668 ZJ(20)-P	Vertical Pole Mounting DS-1603ZJ-Pole-P	Vertical Pole Mounting DS-1684ZJ-P+DS-1603 ZJ-P
					
Wall Mounting DS-1603ZJ-P		Gooseneck Mounting DS-1619ZJ-HP2			
					

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