

DS-2SE4C220MWG-E/12 TandemVu 2 MP 20 × IR Network Speed Dome



Hikvision DS-2SE4C220MWG-E/12 2 MP 20 × IR Network Speed Dome adopts 1/2.8" progressive scan CMOS chip. With the 20 × optical zoom lens, the camera offers more details over expansive areas. This series of cameras can be widely used for wide ranges of high-definition, such as rivers, roads, railways, airports, squares, parks, scenic spots, and venues, etc.

- Captures a large area and great details at the same time
- High quality imaging with 2 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- Secures an expansive area with 20 × optical zoom and 16× digital zoom
- Supports WDR, HLC, BLC, 3D DNR, defog, regional exposure, regional focus
- Supports 12V DC & PoE+
- Focuses on human and vehicle targets classification based on deep learning

▪ 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: 0.03 Lux @ (F2.0, AGC ON), B/W: 0.01 Lux @ (F2.0 , AGC ON), 0 Lux with IR; [PTZ channel]: Color: 0.01 Lux @ (F1.7, AGC ON), B/W: 0.005Lux @ (F1.7, AGC ON) , 0 Lux with IR;
Shutter Speed	1 s to 1/30,000 s
Slow Shutter	yes
Focus	semi-auto,manual,auto
Day & Night	ICR
Zoom	[PTZ channel] 20 × optical, 16 × digital
Day/Night Switch	day, night, auto, scheduled-switch
White Balance	auto,ATW,sodium lamp,fluorescent lamp,indoor,outdoor,MWB,Locked WB
Max. Resolution	[Bullet channel] 1920 × 1080 [PTZ channel] 1920 × 1080
Lens	
Focal Length	[Bullet channel]: 2.8 mm [PTZ channel]: 4.8 to 96 mm, 20 × optical
Zoom Speed	[PTZ channel]: approx. 3.6 s
FOV	[Bullet channel]: Horizontal field of view: 104.9° Vertical field of view: 57.9° Diagonal field of view: 122.8°; [PTZ channel]: Horizontal field of view: 54.9° to 2.7° (wide-tele), Vertical field of view: 31.5° to 1.5° (wide-tele), Diagonal field of view: 62.2° to 3.1° (wide-tele)
Aperture	[Bullet channel]: F2.0; [PTZ channel]: F1.7
Illuminator	
Supplement Light Type	[PTZ channel]: Hybrid (IR and White Light) [Bullet channel]: Hybrid (IR and White Light)
Smart Supplement Light	Yes
Supplement Light Range	[PTZ channel]: IR Distance: up to 100 m; White Light Distance: 30 m [Bullet channel]: IR Distance: up to 30 m; White Light Distance: 30 m
PTZ	
Movement Range (Pan)	0° to 325°
Movement Range (Tilt)	-15° to 90° (auto flip)
Pan Speed	pan speed: configurable from 0.1° to 80°/s; preset speed: 80°/s
Tilt Speed	tilt speed: configurable from 0.1° to 80°/s, preset speed 80°/s
Proportional Zoom	yes
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Power-off Memory	yes

Park Action	preset,patrol scan
3D Positioning	yes
PTZ Status Display	yes
Preset Freezing	yes
Scheduled Task	preset,patrol scan,dome reboot,dome adjust,aux output
Video	
Region of Interest (ROI)	1 fixed regions for main stream
Stream Type	main stream,sub-stream,third stream
Main Stream	[Bullet channel]: 50 Hz: 25 fps (1920 × 1080, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 720) [PTZ channel]: 50 Hz: 25 fps (1920 × 1080, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 720)
Sub-Stream	[Bullet channel]: 50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360) [PTZ channel]: 50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360)
Third Stream	[Bullet channel]: 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240) [PTZ channel]: 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Video Compression	H.265,H.264,MJPEG
Video Bit Rate	32 kbps to 16384 kbps
H.264 Type	baseline profile,main profile,high profile
H.265 Type	main profile
H.264+	yes
H.265+	yes
SVC	yes
Audio	
Audio Compression	G.711,G.722.1,G.726,MP2L2,PCM,MP3,AAC
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; AAC : 16 kbps, 32 kbps, 64 kbps; MP3: 8 kbps, 16 kbps, 32 kbps, 40 kbps, 48 kbps, 56 kbps, 64 kbps, 80 kbps, 96 kbps, 112 kbps, 128 kbps, 144 kbps, 160 kbps
Audio Sampling Rate	MP2L2: 16 kHz,AAC-LC: 16 kHz,PCM: 8 kHz,16 kHz,MP3: 8 kHz,16 kHz
Environment Noise Filtering	yes
Smart Features	
Smart Record	ANR, Dual-VCA
Network	
API	ONVIF (Profile S, Profile G, Profile T),ISAPI,SDK,ISUP
Network Storage	NAS (NFS, SMB/ CIFS), ANR

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
User/Host	32
Security Measures	Authenticated username and password,MAC address binding,HTTPS encryption,802.1X authenticated access,IP address filter
Client	iVMS-4200,Hik-Connect
Web Browser	IE 10+, Chrome 57+, Firefox 52+, Safari 12+
Image	
Image Settings	sharpness, saturation, brightness, contrast
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Defog	Digital defog
Image Stabilization	EIS
Image Enhancement	BLC,HLC,3D DNR
Privacy Mask	[Bullet channel] 24 programmable polygon privacy masks [PTZ channel] 24 programmable polygon privacy masks
Regional Focus	[Bullet channel] No, [PTZ channel] Yes
Regional Exposure	[Bullet channel] No, [PTZ channel] Yes
Image Parameters Switch	Yes
Interface	
Communication Interface	RJ45, self-adaptive 10M/100M Ethernet port
On-board Storage	Built-in memory card slot, support Micro SD/Micro SDHC/Micro SDXC, up to 256 GB
Alarm Input	1 alarm input
Audio Input	1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±10%
Event	
Basic Event	Motion detection,video tampering alarm,exception,alarm input and output
Smart Event	audio exception detection,region entrance detection,region exiting detection,intrusion detection,Line crossing detection
Linkage	[Bullet channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, and trigger recording [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)
General	
General Function	mirror,password protection,watermark,IP address filter
Power	12VDC, PoE+
Operating Conditions	-30°C to 65°C (-22°F to 149°F),humidity lower than 90%RH
Reset	yes
Demist	Demist by heating the glass
Material	ADC12
Dimensions	179.5 × Ø 166.3 × 303.4 mm
Weight	Approx. 2.5
Approval	
Protection	IP66 Standard, 6000 V Lightning Protection, Surge Protection and Voltage Transient Protection

▪ DORI

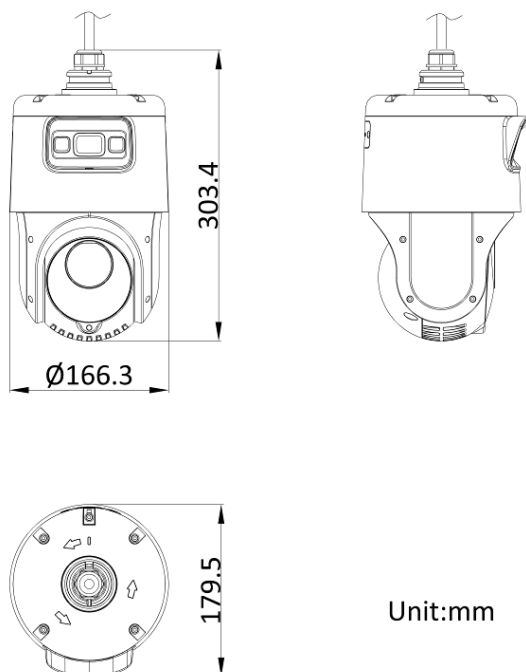
The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	1517.2 m (4977.69 ft)	602.1 m (1975.39 ft)	303.4 m (995.41 ft)	151.7 m (497.7 ft)

▪ Available Model

DS-2SE4C220MWG-E/12(F0)

▪ Dimension



▪ Accessory

▪ Included

DS-1618ZJ

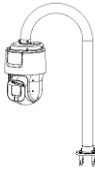
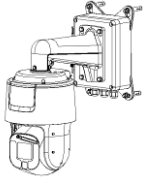
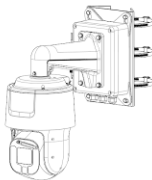
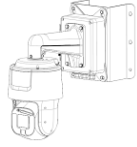
Wall mount





▪Optional

DS-1604ZJ-BOX-CORNER Wall mount	DS-1604ZJ-box Wall mount	DS-1660ZJ Wall mount	DS-1661ZJ Pendant Mount	DS-1662ZJ Pendant Mount
DS-1667ZJ Pendant Mount	DS-1673ZJ Vertical pole mount	DS-1604ZJ-BOX-POLE Vertical pole mount	DS-1684ZJ Vertical pole mount	DS-1604ZJ-pole Vertical pole mount
DS-1663ZJ In-ceiling mount	DS-1604ZJ-corner Corner mount	DS-1619ZJ Others	DS-1602ZJ Wall mount	DS-1674ZJ Junction box

				
				
DS-4650ZJ-WC Vertical pole mount		DS-4660ZJ-WC Corner mount		
				
				

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