DS-2CD6944G0-IHS(/NFC)
180° Stitched 16 MP PanoVu Camera

DarkFighter

- 1/1.8" Progressive Scan CMOS
- Max. resolution 4800 × 2688 @ 30 fps in panorama display mode
- Multiple display modes available: panorama, original, panorama + ePTZ, and divided panorama
- Up to 20 m IR distance
- H.265+, H.264+
- BLC, 3D DNR, HLC, defog, EIS (only the original mode supports)
- Audio and alarm I/O
- IP67, IK10

▪ 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
Distance(2.8 mm)	63.0 m	25.0 m	12.6 m	6.3 m
Distance(6 mm)	126.5 m	50.2 m	25.3 m	12.6 m

Specifications

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.009 Lux @ (F1.6, AGC ON) B/W: 0.0018 Lux @ (F1.6, AGC ON), 0 Lux with IR
Shutter Speed	1/25 s to 1/100,000 s
Day & Night	IR cut filter. Blue glass module to reduce ghost phenomenon.
WDR	Digital WDR
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°
Lens	
Lens Type	Fixed lens, 2.8 mm/6 mm, four lenses
Aperture	F1.4
Focus	Manual
FOV	2.8 mm: horizontal FOV 180°, vertical FOV 90° 6 mm: horizontal FOV 180°, vertical FOV 25°
Lens Mount	M16
Illuminator	
IR Range	Four IR LEDs, up to 20 m
Wavelength	850 nm
Video	
Max. Resolution	2.8 mm Panorama+ePTZ mode: panorama channel: 1920 × 1080; ePTZ channel: 1920 × 1080 Panorama mode: 4800 × 2688 Original mode: 2688 × 1520 Divided panorama: 2400 × 1344 6 mm Panorama+ePTZ mode: panorama channel: 3072 × 540; ePTZ channel: 1920 × 1080 Panorama mode: 8160 × 1440 Original mode: 2688 × 1520 Divided panorama: 2032 × 1440
Main Stream	2.8 mm Panorama+ePTZ mode: panorama channel: 50Hz: 25fps (1920 × 1080, 960 × 540), 60Hz: 30fps (1920 × 1080, 960 × 540); ePTZ channel: 50Hz: 25fps (1920 × 1080, 1280 × 720), 60Hz: 30fps (1920 × 1080, 1280 × 720) Panorama mode: 50Hz: 25fps (4800 × 2688, 3840 × 2160, 2688 × 1520), 60Hz: 30fps (4800 × 2688, 3840 × 2160, 2688 × 1520) Original mode: 50Hz: 25fps (2688 × 1520), 60Hz: 30fps (2688 × 1520) 6 mm Panorama+ePTZ mode: panorama channel: 50Hz: 25fps (3072 × 540, 2688 × 480, 1920 × 320), 60Hz: 30fps (3072 × 540, 2688 × 480, 1920 × 320); ePTZ channel: 50Hz: 25fps (1920 × 1080, 1280 × 720), 60Hz: 30fps (1920 × 1080, 1280 × 720) Panorama mode: 50Hz: 25fps (8160 × 1440, 6720 × 1200, 4800 × 840), 60Hz: 30fps

	(8160 × 1440, 6720 × 1200, 4800 × 840) Original mode: 50Hz: 25fps (2688 × 1520), 60Hz: 30fps (2688 × 1520)
Sub-Stream	2.8 mm Panorama mode: 50Hz: 25fps (1920 × 1080, 960 × 540), 60Hz: 30fps (1920 × 1080, 960 × 540) 6 mm Panorama mode: 50Hz: 25fps (3072 × 540, 2688 × 480, 1920 × 320), 60Hz: 30fps (3072 × 540, 2688 × 480, 1920 × 320)
Video Compression	Main stream: H.265/H.264 Sub-stream: H.265/H.264/MJPEG
H.264 Type	Baseline Profile/Main Profile/High Profile
H.264+	Main stream supports
H.265 Type	Main Profile
H.265+	Main stream supports
Video Bit Rate	32 Kbps to 16 Mbps
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Audio	
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/32Kbps(PCM)
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/48 kHz
Smart Feature-Set	
Basic Event	Motion detection (only panorama mode supports), video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
People Density	Yes (only panorama mode supports)
Linkage Method	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture
Image	
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS (only the original mode supports)
Image Settings	Rotate mode (only the original mode supports), saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser
Target Cropping	Yes (only panorama mode supports)
Day/Night Switch	Day/Night/Auto/Schedule/Triggered by Alarm In
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
Network	
Network Storage	Support Micro SD/SDHC/SDXC card (256G), local storage and NAS (NFS,SMB/CIFS), ANR
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour
API	ONVIF (PROFILE S, PROFILE G), ISAPI, SDK, Ehome

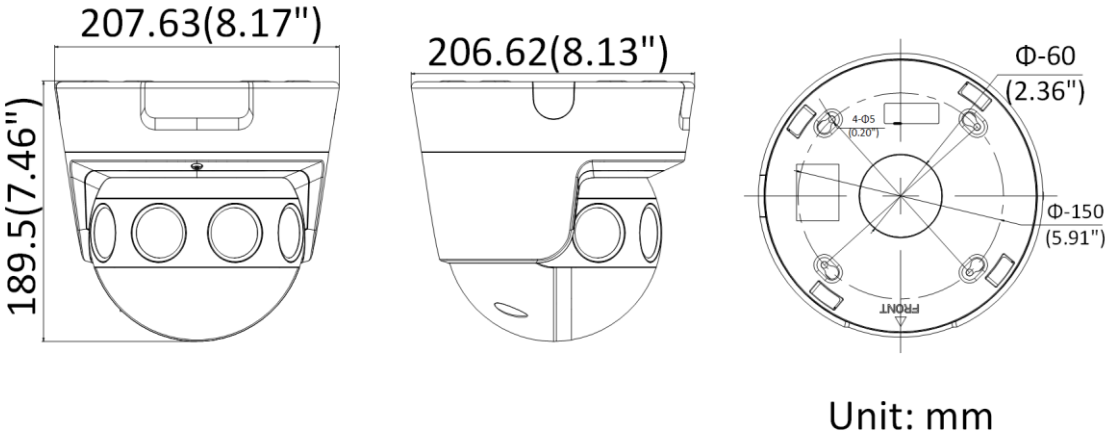
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, TLS1.0, TLS1.1
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Client	iVMS-4200
Web Browser	IE8+
Interface	
Communication Interface	1 RJ45 10M/100M/1000M Ethernet port; 1 RS-485 interface (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Audio	1 input (line in), 3.5 mm 3-section connector, max. input amplitude: 1 vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium; 1 output (line out), 3.5 mm 3-section connector, max. output amplitude: 1 vpp, output impedance: 100 Ω, interface type: non-equilibrium
Alarm	2 inputs, 2 outputs (max. 24 VDC, 1A)
On-board Storage	Built-in microSD/SDHC/SDXC slot, up to 256 GB
Fiber Optical (/NFC)	
Interface Type	FC interface
Optical Type	Single mode, single fiber
Input/output Wavelength	Tx1310nm/1.25G, Rx1550nm/1.25G
Transmission Distance	Up to 20 km
General	
Firmware Version	V5.5.83
Web Client Language	English
General Function	Anti-flicker, heartbeat, mirror (only original mode supports), privacy masks (only original mode supports), password protection, watermark, IP address filter (only original mode supports), pixel counter
Reset	Reset via reset button on camera body, web browser and client software
Startup and Operating Conditions	-40 °C to +60 °C (-40 °F to +140 °F), humidity 95% or less (non-condensing)
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F), humidity 95% or less (non-condensing)
Power Supply	12 VDC, three-core terminal block, PoE (802.3at)
Power Consumption and Current	12 VDC, 1.6 A, max. 24 W, PoE (802.3at, 42.5 V to 57 V), 0.5 to 0.4 A
Material	Aluminum alloy
Heater	Yes
Dimensions	Camera: 189.5 × 207.63 × 206.62 mm (7.46" × 8.17" × 8.13") Package: 340 × 261 × 293 mm (13.4" × 10.3" × 11.5")
Weight	Camera: approx. 3 kg (6.6 lb.) With package: approx. 5 kg (11 lb.)

Approval	
EMC	47 CFR Part 15, Subpart B; EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014; AS/NZS CISPR 32: 2015; ICES-003: Issue 6, 2016; KN 32: 2015, KN 35: 2015
Safety	UL 60950-1, IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IS 13252(Part 1):2010+A1:2013+A2:2015
Environment	2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006
Protection	Ingress protection: IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)

Available Model

DS-2CD6944G0-IHS (2.8 mm), DS-2CD6944G0-IHS/NFC (2.8 mm), DS-2CD6944G0-IHS (6 mm), DS-2CD6944G0-IHS/NFC (6 mm)

Dimension



Unit: mm

Accessory

DS-1602ZJ
Wall Mount

DS-1661ZJ
Pendant Mount

Cap (Included)

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