

DS-2CD4B16FWD-IZ(S) 1.3 MP Low Light Smart Bullet Camera

















The low light smart cameras are able to capture high quality colored images in dim light environment. DS-2CD4B16FWD-IZ(S) offers high resolution, 120dB WDR, Auto-iris, PoE, Defog, EIS, 3D DNR, 6 behavior analyses, 1 exception detection, and face detection to meet a wide variety of applications.

- 1/3" Progressive Scan CMOS
- Auto-iris
- 1280 × 960 @ 60fps
- Low light
- H.265, H.265+
- 120dB WDR
- IP67
- 6 behavior analyses, 1 exception detection, and face detection



Function Description

Smart

- 6 behavior analyses, 1 exception detection, and face detection
- Smart recording: Support edge recording and dual-VCA
- Smart encoding: Support low bit rate, low latency, ROI enhance encoding

Image

- 1280 × 960 @60fps
- Support rotate mode, suitable for environment as corridor
- Support target cropping, details can be seen with low bandwidth
- Streaming smoothness setting for different requirements of image quality and fluency
- Support H.265+/H.265/H.264+/H.264/MJPEG video compression, multi-level video quality configuration; support Baseline Profile/Main Profile/High Profile H.264 encoding complexity, and Main Profile H.265 encoding complexity
- Multiple OSD color: Black & white self-adaptive; Custom
- 120dB WDR is supportable for backlight environment
- Support defog, BLC, EIS, HLC

System

- Support ONVIF (profile S/profile G), ISAPI protocol
- Support three streams, and Support 20 channels live view at the same time
- Lightning protection, surge protection, voltage transient protection, anti-static protection

Interface

- Support standard 128G microSD/SDHC/SDXC card storage
- Support 10M/100M Ethernet port
- Support Audio I/O, support stereo audio, RS-485 (-S)
- Support Alarm I/O (-S)
- Support CVBS analog output (4CIF resolution)

Security

- Support three-level user authentication management, user and password authorization, and IP address filtering
- Support security certificate as HTTPS
- Lock user IP after certain times failed login attempts

Specifications

Camera	
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.005 Lux @ (F1.2, AGC ON), 0.007 Lux @ (F1.4, AGC ON), 0 Lux with IR B/W: 0.0005 Lux @ (F1.2, AGC ON), 0.0007 Lux @ (F1.4, AGC ON), 0 Lux with IR
Shutter Speed	1 s – 1/100,000 s
Slow Shutter	Support
Lens	2.8 – 12 mm F1.4, horizontal angle of view 98.4° - 30.2°
Lens Mount	Ф14
Auto-iris	DC drive
Day & Night	IR Cut Filter
Digital Noise Reduction	3D DNR
WDR	120dB
3-Axis Adjustment (Bracket)	Pan: 0° to 360°, tilt: 0° to 100°, rotate: 0° to 360°
Compression Standard	
Video Compression	Main stream: H.265/H.264 Sub stream: H.265/H.264/MJPEG Third stream: H.265/H.264
Н.264 Туре	Baseline Profile/Main Profile/High Profile
H.264+	Support
H.265 Type	Main Profile
H.265+	Support
Video Bit Rate	32 Kbps – 16 Mbps
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)
Image	
Max. Resolution	1280 × 960
Main Stream	50Hz: 50fps (1280 × 960, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 60fps (1280 × 960, 1280 × 720, 704 × 480, 640 × 480)
Sub Stream	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288, 320 × 240) 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240, 320 × 240)
Third Stream	50Hz: 25fps (1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240) 60Hz: 30fps (1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240, 320 × 240)
Image Enhancement	BLC/HLC/3D DNR/Defog/EIS
Image Setting	Rotate Mode, Saturation, Brightness, Contrast, Sharpness adjustable by client software or web browser
Region of Interest	Support 4 fixed region for each stream, and dynamic face tracking
Target Cropping	Support
Day/Night Switch	Auto/Schedule/Triggered by Alarm In (-S)
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
Network	
Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR
Alarm Trigger	Motion detection, video tampering alarm, network disconnected, IP address conflict, illegal login, HDD full, HDD error
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

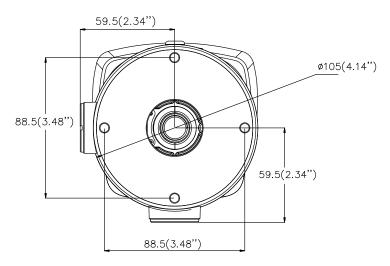
General Function	One-key reset, anti-flicker, three streams, heartbeat, password protection, privacy mask, watermark, IP address filter	
Standard	ONVIF (PROFILE S, PROFILE G), ISAPI	
Interface		
Audio	With –S model: 1 input (line in), 1 output	
Communication Interface	1 RJ45 10M/100M Ethernet port; with –S model: 1 RS-485 interface	
Alarm	With –S model: 1 input, 1 output (up to DC24V 1A or AC110V 500mA)	
Video Output	1Vp-p composite output (75 Ω/BNC)	
On-board storage	Built-in Micro SD/SDHC/SDXC slot, up to 128 GB	
Reset Button	Yes	
Audio		
Environment Noise Filtering	Support	
Audio I/O	Support	
Audio Sampling Rate	Max. 48 kHz	
Smart Feature-set		
Behavior Analysis	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection	
Line Crossing Detection	Cross a pre-defined virtual line, up to 4 pre-defined virtual lines supported	
Intrusion Detection	Enter and loiter in a pre-defined virtual region, up to 4 pre-defined virtual regions supported	
Region Entrance Detection	Enter a pre-defined virtual region from the outside place	
Region Exit Detection	Exit from a pre-defined virtual region	
Object Removal Detection	Objects removed from the pre-defined region, such as the exhibits on display.	
Unattended Baggage Detection	Objects left over in the pre-defined region such as the baggage, purse, dangerous materials	
Exception Detection	Scene change detection	
Face Detection	Human face appears in the image can be detected and trigger linkage method	
General		
Operating Conditions	-30 °C – 60 °C (-22 °F – 140 °F), Humidity 95% or less (non-condensing)	
Power Supply	12 V DC ± 20%, PoE (802.3at, class 4)	
Power Consumption	12 V DC ± 20%: Max. 11.25 W/0.94 A	
and Current	PoE (802.3at): Max. 15 W/0.31 A	
IR Range	10 m to 30 m	
Protection Level	IP67	
Dimensions	348.38 × 114.18 ×111.73 mm (13.72" × 4.5" × 4.4")	
Weight	Camera: 1900 g (4.19 lb.) With package: 2100 g (4.63 lb.)	

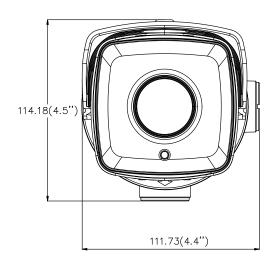
Available Models

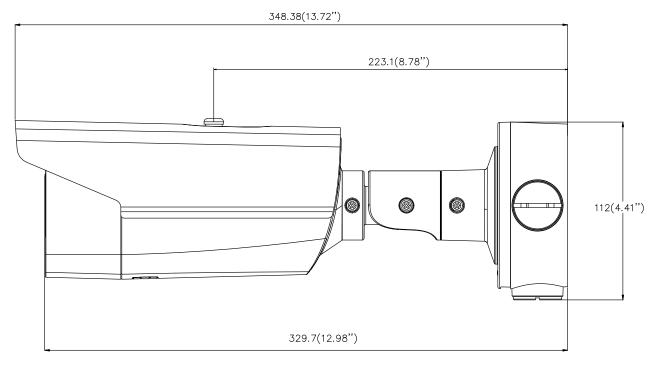
DS-2CD4B16FWD-IZ; DS-2CD4B16FWD-IZS

^{*}-S: with 1 audio input (line in), 1 audio output, 1 RS-485, 1 alarm input and 1 alarm output

Dimensions







Unit: mm

Accessories



DS-1275ZJ-SUS Vertical Pole Mount



DS-1276ZJ-SUS Corner Mount





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