

DS-2DV6805JXB/PLD-R Collision Prevention Camera



Suitable for industrial robotic arm operation scenarios such as palletizing/depalletizing, welding, and material handling in production workshops.

- Conforms to the IEC 61000-6-7:2014 standard.
- Conforms to the ISO 13849-1:2023 PLd standard.

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	2560 × 2160
Min. Illumination	Color: 0.0002 Lux, B/W: 0.0002 Lux , B/W: 0 Lux with IR
Day & Night	IR cut
Lens	
Lens Type	Fix lens
Focal Length & FOV	horizontal FOV 88°, vertical FOV 78.3°, diagonal FOV 106.7°
Focus	Fix
Iris Type	Fix
Aperture	F1.6
Illuminator	
Supplement Light Type	IR
Supplement Light Range	10 m;
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 25 fps (2560 × 2160, 1280 × 1080, 1280 × 720) 60 Hz: 30 fps (2560 × 2160, 1280 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Third Stream	50 Hz: 12.5fps (1280 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60 Hz: 10 fps (1280 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50 Hz: 12.5 fps (2560 × 2160) 60 Hz: 10 fps (2560 × 2160)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, Fourth stream: H.265/H.264
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile,Main Profile,High Profile
H.265 Type	Main Profile
Bit Rate Control	CBR,VBR
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	64 Kbps (G.711ulaw/G.711alaw) ,16 Kbps (G.722.1) ,16 Kbps (G.726) ,32~192 Kbps (MP2L2) ,16~64 Kbps (AAC-LC) ,8~160 Kbps (MP3)
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/48 kHz
Environment Noise Filtering	Yes

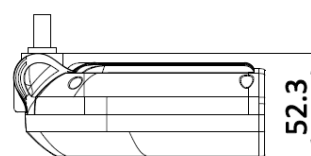
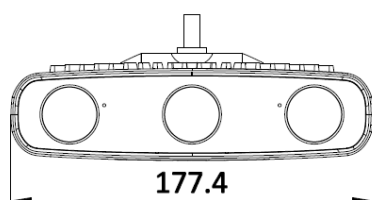
Network	
Protocols	TCP/IP,HTTP,HTTPS,FTP,SFTP,DHCP,DNS,RTSP,NTP,QoS,IPv6,WebSocket,WebSocket
Simultaneous Live View	Up to 20 channels
API	ISAPI,GB28181,SDK,ISUP (5.0) ,OTAP,Onvif
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Security	This product fulfills the requirements of functional safety acc.to above standards in accordance with PL d. It is designed with a hardware architecture according to Category 2.
Network Storage	NAS (NFS, SMB/CIFS)
Client	iVMS-4200
Web Browser	Plug-in required live view: IE 10, IE 11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
Image	
Image Parameters Switch	Yes
Image Settings	Rotate mode,saturation,brightness,contrast,sharpness, adjustable by client software or web browser
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger
Wide Dynamic Range (WDR)	dWDR
Image Enhancement	BLC,HLC,3D DNR
SNR	≥ 50 dB
Interface	
Ethernet Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 256GB
Alarm	2 inputs, 4 outputs (max. 24 VDC, 1 A)
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset Key	Yes
Event	
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm output,trigger recording
Deep Learning Function	
Collision Prevention	Supports human detection within the robotic arm safety fence and outputs headcount information Supports activation/deactivation of human detection via alarm input signals Support canceling human detection alarms through alarm input signals, allowing configuration of the duration to maintain the cancellation. Supports target filtering function and trajectory calculation filtering. Conditions such as target movement displacement, dwell time, and target height can be set for filtering.
General	
Power	12 VDC ± 20%, 1 A, max. 12 W PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.32 A to 0.24 A, max. 14 W
Material	Aluminum alloy body
Dimension	177.4 × 241.4 × 127.8 mm
Package Dimension	269 × 230 × 196 mm

Weight	Approx. 790 g
With Package Weight	Approx. 1500 g
Storage Conditions	-30 °C to 40 °C . Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 40 °C. Humidity 95% or less (non-condensing)
Language	English
General Function	Heartbeat,anti-banding,one-key reset,mirror,password protection,flash log

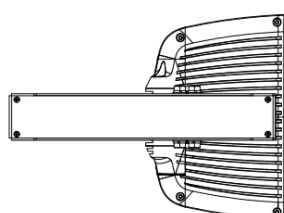
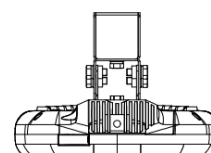
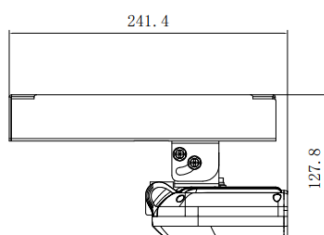
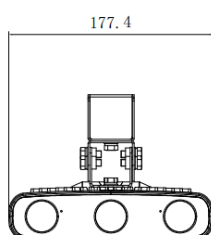
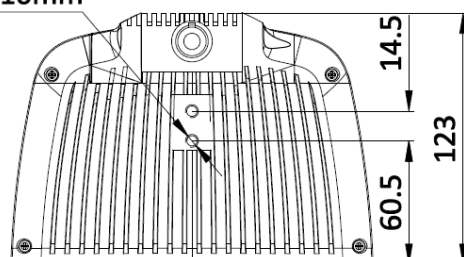
▪ Available Model

DS-2DV6805JXB/PLD-R

▪ Dimension



1/4-20UNC深10mm



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