

**DS-2CD8B45G0-ZS**  
**4 MP Smart Manufacturing Vari-focal Bullet Camera**



It is suitable for places where high-definition image quality is required, such as factory production lines.

- High quality imaging with 4 MP resolution
- Clear imaging against strong back light due to 120 dB true WDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- Motorized varifocal lens for easy installation and monitoring
- Support on-board storage up to 256 GB (SD card slot)
- Alarm interface available

## ▪ Specification

Camera	
Image Sensor	1/3" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.005 Lux @ (F1.2, AGC ON)
Shutter Time	1/3 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 355°,tilt: 0° to 75°,rotate: 0° to 355°
Lens	
Lens Type	Varifocal lens, motorized lens, 2.8 to 12 mm
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 97° to 30°, vertical FOV 52° to 17°, diagonal FOV 114° to 34°
Lens Mount	Ø14
Aperture	F1.6
Video	
Main Stream	50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) 50 fps(1920x1080) 60 Hz: 30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 fps(1920x1080) *2560 × 1440 by default
Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360, 704 × 576) 60 Hz: 30 fps (640 × 480, 640 × 360, 704 × 480)
Video Compression	Main stream: H.265/H.264/H.265+/H.264+, Sub-stream: H.265/H.264
Video Bit Rate	256 Kbps to 8 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
Region of Interest (ROI)	1 fixed region for main stream
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP
Simultaneous Live View	Up to 6 channels
API	ONVIF,ISAPI,SDK,ISUP
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2

Network Storage	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE 10, IE 11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+
<b>Image</b>	
Image Parameters Switch	Yes
Image Settings	saturation, brightness, contrast, sharpness, white balance, AGC, adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule
Wide Dynamic Range (WDR)	120 dB
Image Enhancement	BLC, HLC, 3D DNR
Privacy Mask	Yes
SNR	≥ 52 dB
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.
<b>Interface</b>	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 256 GB
Alarm	1 input, 1 output (max. 24 VDC, 30 mA)
Reset Key	Yes
<b>Event</b>	
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, scene change detection, defocus detection, unattended baggage detection, object removal detection, loitering detection, people gathering detection, fast moving detection, parking detection
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture
<b>General</b>	
Power	12 VDC ± 25%, 0.8 A, max. 9.6 W, Ø5.5 mm coaxial power plug, PoE: IEEE 802.3af, Class 3, 36 V to 57 V, 0.33 A to 0.21 A, max. 12 W
Material	Aluminum alloy body
Dimension	55.5 mm × 55.5 mm × 96 mm (2.19" × 2.19" × 3.78")
Package Dimension	174 mm × 111 mm × 101 mm (6.85" × 4.37" × 3.98")
Weight	Approx. 370 g (0.82 lb.)
With Package Weight	Approx. 486 g (1.07 lb.)
Storage Conditions	-20 °C to 60 °C (-4 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-20 °C to 60 °C (-4 °F to 140 °F). Humidity 95% or less (non-condensing)
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
General Function	Heartbeat, pixel counter, password protection

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<b>Approval</b>	
EMC	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021
Safety	CB: IEC 62368-1: 2014, CE-LVD: EN 62368-1: 2014/A11: 2017

Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
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**▪ Available Model**

DS-2CD8B45G0-ZS

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