

## DS-2CD4A45G0-IZ(H)S 4MP Smart Bullet Network Camera



### smart IPC

The smart network bullet camera DS-2CD4A45G0-IZS offers 2560 × 1440 resolution, 105dB WDR, Auto-iris, PoE, Defog, EIS, 3D DNR, 6 behavior analyses, 3 exception detection, and 1 recognition to meet a wide variety of applications.

- 1/2.5" Progressive Scan CMOS
- Auto-iris
- 2560 × 1440 @ 30fps
- H.265, H.265+
- 105dB WDR
- IP67
- 6 behavior analyses, 3 exception detection, and 1 recognition



## Specifications

<b>Camera</b>	
Image Sensor	1/2.5" Progressive Scan CMOS
Min. Illumination	0.007 Lux @ (F1.2, AGC ON), 0.01 Lux @ (F1.4, AGC ON)
Shutter Speed	1 s – 1/100,000 s
Slow Shutter	Yes
Lens Mount	Integrated
Auto-iris	DC drive
Day & Night	IR Cut Filter
Digital Noise Reduction	3D DNR
WDR	105dB
3-Axis Adjustment (Bracket)	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
<b>Lens</b>	
Focal length	4.7 to 94 mm @F1.4
Focus	Auto
FOV	4.7 to 94 mm @F1.4, horizontal FOV 58.248° to 2.896°, vertical FOV 33.602° to 1.644°, diagonal FOV 65.868° to 3.31°
Lens Mount	Integrated
<b>IR</b>	
IR Range	Up to 150 m
Wavelength	850 nm
<b>Compression Standard</b>	
Video Compression	Main stream: H.265/H.264 Sub stream: H.265/H.264/MJPEG Third stream: H.265/H.264
H.264 Type	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)
<b>Image</b>	
Max. Resolution	2560 × 1440
Main Stream	50Hz: 25fps (2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub Stream	50Hz: 25fps (640 × 480, 640 × 360, 320 × 240) 60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)
Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 640 × 360, 352 × 288, 320 × 240) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 640 × 360, 352 × 240, 320 × 240)
Image Enhancement	BLC/HLC/3D DNR/Defog/EIS
Image Setting	Rotate Mode, Saturation, Brightness, Contrast, Sharpness, AGC, White Balance adjustable by client software or web browser
Region of Interest	Support 4 fixed region for each stream, and dynamic face tracking

Target Cropping	Yes
SVC	H.264 and H.265 encoding
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
<b>Network</b>	
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
Simultaneous Live View	Up to 20 channels
Client	iVMS-4200, iVMS-4500, iVMS-5200, Hik-connect
General Function	One-key reset, anti-flicker, three streams, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
Standard	ONVIF (PROFILE S, PROFILE G), ISAPI
Web Browser	IE8+, Chrome31.0-44, Firefox30.0-51, Safari8.0+
<b>Interface</b>	
Audio	1 input (line in/mic in), 1 output (line out), mono
Communication Interface	1 RJ45 10M/100M Ethernet port; 1 RS-485 interface
Alarm	1 input, 1 output (up to 24 VDC 1A or 110 VDC 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
<b>Audio</b>	
Environment Noise Filtering	Support
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
<b>Smart Feature-set</b>	
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, defocus detection, audio exception detection
Recognition	Face detection
Statistics	Counting
<b>General</b>	
Operating Conditions	-IZS: -30 °C to 60 °C (-22 °F to 140 °F), Humidity 95% or less (non-condensing) -IZ(H)S: -30 °C to 60 °C (-22 °F to 140 °F), Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 20%, PoE (802.3at, class 4), three-core terminal blocks
Power Consumption and Current	-IZS: 12 VDC ± 20%: Max. 12 W/1 A PoE (802.3at, 42.5V-57V), 0.2 A to 0.3 A -IZ(H)S: 12 VDC ± 20%: Max. 15 W/1.3 A PoE (802.3at, 42.5V-57V), 0.3 A to 0.4 A

Protection Level	IP67 TVS 4000V Lightning Protection, Surge Protection and Voltage Transient Protection
Dimensions	Camera: 348.38 × 114.18 × 111.73 mm (13.72" × 4.5" × 4.4") With package: 386 × 156 × 155 mm (15.2" × 6.1" × 6.1")
Weight	Camera: 1740 g (3.8 lb.) With package: 2125 g (4.7 lb.)

### Available Models:

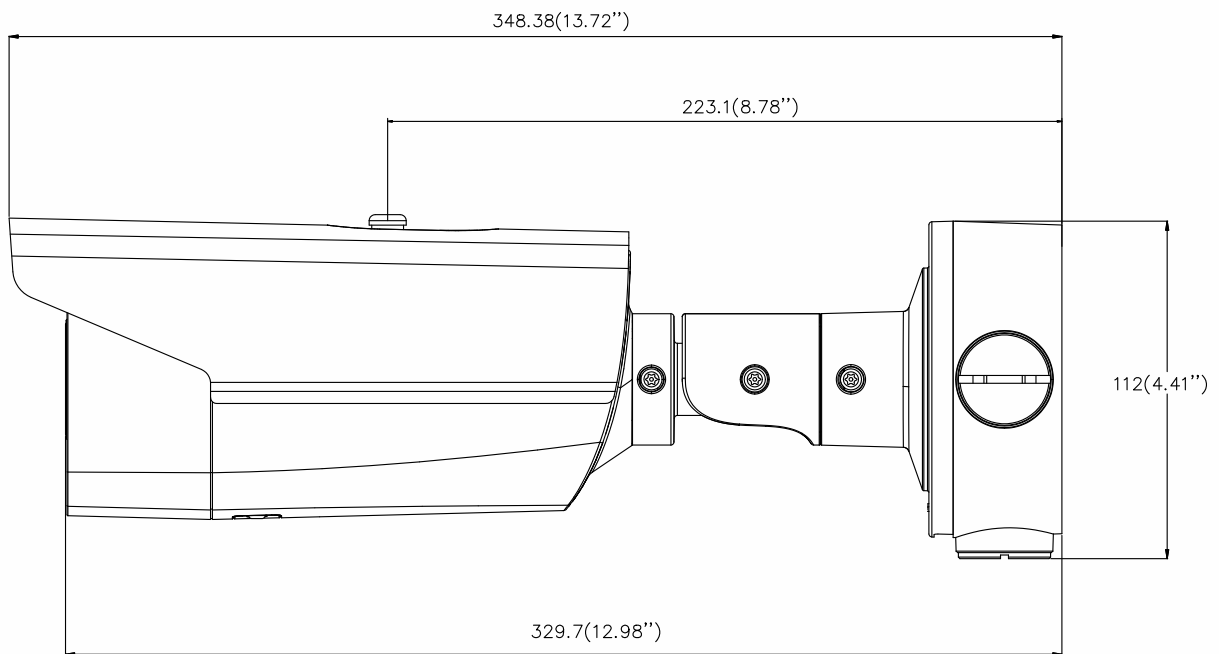
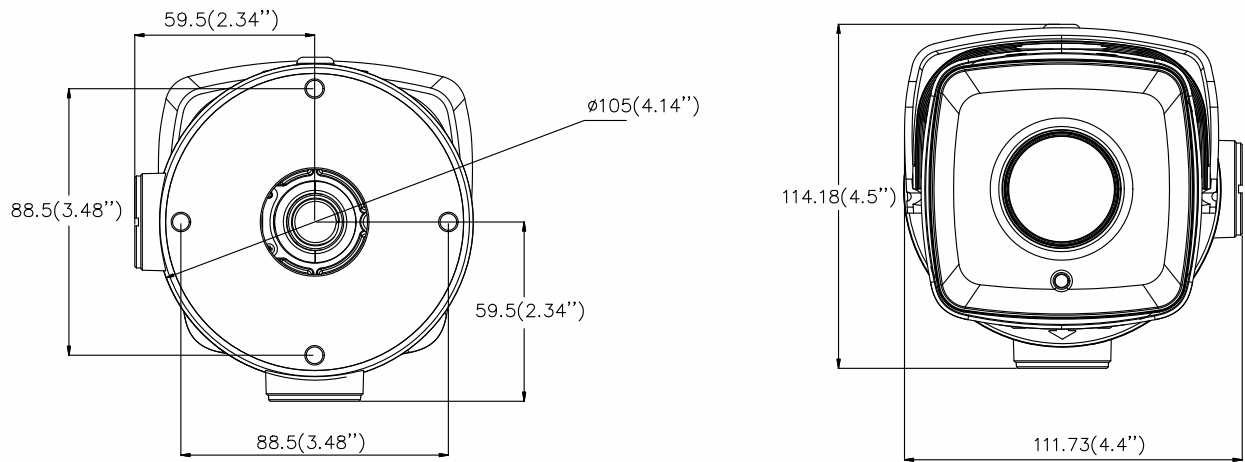
DS-2CD4A45G0-IZS

DS-2CD4A45G0-IZHS

*-IZS: (1 audio input (line in/mic in), 1 audio output, 1 RS-485, 1 alarm input and 1 alarm output)*

*-IZHS: support heater*

## Dimensions



Unit: mm (")

Distributed by

**HIKVISION®****Headquarters**

No.555 Qianmo Road, Binjiang District,  
Hangzhou 310051, China  
T +86-571-8807-5998  
overseasbusiness@hikvision.com

**Hikvision USA**  
T +1-909-895-0400  
sales.usa@hikvision.com

**Hikvision Australia**  
T +61-2-8599-4233  
salesau@hikvision.com

**Hikvision India**  
T +91-22-28469900  
sales@pramahikvision.com

**Hikvision Canada**  
T +1-866-200-6690  
sales.canada@hikvision.com

**Hikvision Thailand**  
T +662-275-9949  
sales.thailand@hikvision.com

**Hikvision Europe**  
T +31-23-5542770  
sales.eu@hikvision.com

**Hikvision Italy**  
T +39-0438-6902  
info.it@hikvision.com

**Hikvision Brazil**  
T +55 11 3318-0050  
Latam.support@hikvision.com

**Hikvision Turkey**  
T +90 (216)521 7070- 7074  
sales.tr@hikvision.com

**Hikvision Malaysia**  
T +601-7652-2413  
sales.my@hikvision.com

**Hikvision UK & Ireland**  
T +01628-902140  
sales.uk@hikvision.com

**Hikvision South Africa**  
Tel: +27 (10) 0351172  
sale.africa@hikvision.com

**Hikvision France**  
T +33(0)1-85-330-450  
info.fr@hikvision.com

**Hikvision Kazakhstan**  
T +7-727-9730667  
nikia.panfilov@hikvision.ru

**Hikvision Vietnam**  
T +84-974270888  
sales.vt@hikvision.com

**Hikvision UAE**  
T +971-4-4432090  
salesme@hikvision.com

**Hikvision Singapore**  
T +65-6684-4718  
sg@hikvision.com

**Hikvision Spain**  
T +34-91-737-16-55  
info.es@hikvision.com

**Hikvision Tashkent**  
T +99-87-1238-9438  
uzb@hikvision.ru

**Hikvision Hong Kong**  
T +852-2151-1761  
info.hk@hikvision.com

**Hikvision Russia**  
T +7-495-669-67-99  
saleru@hikvision.com

**Hikvision Korea**  
T +82-[0]31-731-8817  
sales.korea@hikvision.com

**Hikvision Poland**  
T +48-22-460-01-50  
info.pl@hikvision.com

**Hikvision Indonesia**  
T +62-21-2933759  
Sales.Indonesia@hikvision.com

**Hikvision Colombia**  
sales.colombia@hikvision.com