

## DS-2CD2046G2-I(U)

4 MP AcuSense Powered-by-DarkFighter Fixed Bullet Network Camera















Empowered by deep learning algorithms, Hikvision AcuSense technology brings human and vehicle targets classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.

- High quality imaging with 4 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- Clear imaging against strong backlight due to 120 dB true
   WDR technology
- Efficient H.265+ compression technology
- Focus on human and vehicle targets classification based on deep learning
- Built-in microphone for real-time auto security(-U)
- Water and dust resistant (IP67)





# Specification

Camera	
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 dB
Lens	Fixed feed lane 2.0. A and Cours sertional
Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional
5 11 11 0 501	2.8 mm, horizontal FOV 103°, vertical FOV 55°, diagonal FOV 123°
Focal Length & FOV	4 mm, horizontal FOV 83°, vertical FOV 45°, diagonal FOV 98°
	6 mm, horizontal FOV 53°, vertical FOV 28°, diagonal FOV 62°
Aperture	F1.4
Lens Mount	M12
Iris Type	Fixed
DORI	
	2.8 mm: D: 60.0 m, O: 23.8 m, R: 12.0 m, I: 6.0 m
DORI	4 mm: D: 80.0 m, O: 31.7 m, R: 16.0 m, I: 8.0 m
	6 mm: D: 120.0 m, O: 47.6 m, R: 24.0 m, I: 12.0
Illuminator	
IR Range	Up to 40 m
IR Wavelength	850 nm
Smart Supplement Light	Yes
Supplement Light Type	IR
Video	
Max. Resolution	2688 × 1520
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360)
	60 Hz: 30 fps (640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
	60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
	*Third stream is supported under certain settings.
Video Compression	Main stream: H.265/H.264/H.265+/H.264+
	Sub-stream: H.265/H.264/MJPEG
	Third stream: H.265/H.264
	*Third stream is supported under certain settings.
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Main stream supports
H.265+	Main stream supports



Scalable Video Coding (SVC)	Bit Rate Control	CBR/VBR
Audio Environment Noise Filtering	Scalable Video Coding (SVC)	H.264 and H.265 encoding
Environment Noise Filtering  Audio Sampling Rate  -U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz  Audio Compression  -U: 6.711ulaw/G.711alaw/G.722.1/G.726/MP2Lz/PCM/MP3/AC  -U: 64 kbps (G.712ulaw/G.711alaw)/G.722.1/16 kbps (G.726)/32 to 192 kbps (MP2Lz/PCM/MP3/AC)  -U: 64 kbps (G.711ulaw/G.711alaw)/16 kbps (G.722.1)/16 kbps (G.726)/32 to 192 kbps (MP2Lz/PCM/MP3/AC)  -U: 64 kbps (G.711ulaw)/G.711alaw)/16 kbps (G.722.1)/16 kbps (G.726)/32 to 192 kbps (MP2Lz/PCM/MP3/AC)  Network  Simultaneous Live View  Up to 6 channels  API  Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK  TCP/IP, I.CMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPAP, SMTP, IGMP, 802.1X, QaS, IP44, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets  User/Host  Up to 32 users. 3 user levels: administrator, operator and user  Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit tog, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Pene Network Video Interface  MicroSD/SDHC/SDXC card (256 GB) local storage, and 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  Plug-in required live view: E 10+  Plug-in free live view: Chrome 57.0+, Firefox 52.0+  Local service: Chrome 57.0+, Firefox 52.0+  Local service: Chrome 57.0+, Firefox 52.0+  Image Enhancement  BLC, HLC, 3D DNR  mage Parameters Switch  Page Parameters Switch  Page Parameters Switch  Page Parameters Switch  Actate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser  Interface  Built-in micro SD/SDHC/SDXC slot, up to 256 GB  Reset key  Yes  Sult-in micro SD/SDHC/SDXC slot, up to 256 GB  Reset key  Yes  Sult-in micro SD/SDHC/SDXC slot, up to 256 GB  Reset key  Yes  Sult-in micro SD/SDHC/	Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Audio Sampling Rate Audio Compression  -U: 6:711ulaw/G.711alaw/G.721./G.726/MP2L2/PCM/MP3/AAC  -U: 64 kbps (G.711ulaw/G.711alaw)/16 kbps (G.722.1)/16 kbps (G.726)/32 to 192 kbps (G.712alaw)/6.711alaw)/16 kbps (G.722.1)/16 kbps (G.726)/32 to 192 kbps (G.712alaw)/16 kbps (G.72alaw)/16 kbps (G.72ala	Audio	
Audio Compression  -U: 6.711ulaw/G.711alaw/G.721.1/G.726/MP2L2/PCM/MP3/AAC  -U: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC)  Network  Simultaneous Live View  API  Open Network Video Interface (PROFILE S, PROFILE G, PROFILE TI, ISAPI, SDK  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, ARP, WebSocket, WebSockets  User/Host  Up to 32 users, 3 user levels: administrator, operator and user  Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/12, WSSE and digest authentication for OPen Network Video Interface  MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported.  Client  Web Browser  Miscrosovice: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Fi	Environment Noise Filtering	-U: Yes
Audio Bit Rate  (MP212)/8 to 320 Kbps (MP31/16 kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP212)/8 to 320 Kbps (MP31/16 to 64 Kbps (AAC)  Network  Simultaneous Live View  Up to 6 channels  API  Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK  TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DNS, RTP, RTSP, NTP, UPPP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPOE, SNMP, ARP, WebSocket, WebSockets  User/Host  Up to 32 users. 3 user levels: administrator, operator and user  Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface  MicroSD/SDHC/SDXC card (256 GB) local storage, and 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 Plug-in required live view: IE 10+ Upg-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local servic	Audio Sampling Rate	-U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Network Simultaneous Live View Up to 6 channels API Open Network Video Interface (PROFILE S, PROFILE T), ISAPI, SDK TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, Protocols IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets User/Host Up to 32 users. 3 user levels: administrator, operator and user Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface MicroSD/SDHC/SDXC card (256 GB) local storage, and 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 Plug-in required live view: E 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Image Enhancement BLC, HLC, 3D DNR Image Parameters Switch Pay, Night, Auto, Schedule Image Settings Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser  Interface Built-in Microphone 4: Yes Built-in Microphone 5: U: Yes Uniterface 1: RJ45 10 M/100 M self-adaptive Ethernet port  Event  Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection	Audio Compression	-U: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC
Simultaneous Live View Up to 6 channels  API Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK  TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DMS, DDMS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets  User/Host Up to 32 users. 3 user levels: administrator, operator and user Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported.  Client IMMS-4200, Hik-Connect, Hik-Central Plug-in free live view: Et 10+ Plug-in free live view: Et 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Other Service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Other Service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57	Audio Bit Rate	-U: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC)
API Open Network Video Interface (PROFILE S, PROFILE T,, ISAPI, SDK 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, ARP, WebSocket, WebSockets User/Host Up to 32 users. 3 user levels: administrator, operator and user Password protection, complicated password, HTTPS encryption, IP address filter, Security Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface MicroSD/SDHC/SDXC card (256 GB) local storage, and 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 Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Fir	Network	
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, ARP, WebSocket, WebSockets WebSo	Simultaneous Live View	Up to 6 channels
Protocols  IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets  User/Host  Up to 32 users. 3 user levels: administrator, operator and user  Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface  MicroSD/SDHC/SDXC card (256 GB) local storage, and 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 Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Image  SNR  \$ 25 d B  Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR Image Parameters Switch Yes Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser  Interface  Built-in Microphone -U: Yes On-Board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB Reset Key Yes Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Wotion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection	API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK
User/Host     Up to 32 users. 3 user levels: administrator, operator and user       Password protection, complicated password, HTTPS encryption, IP address filter, Security     Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface       MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)     Network Storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)       Together with high-end Hikvision memory card, memory card encryption and health detection are supported.     Plug-in required live view: IE 10+       Web Browser     Plug-in required live view: IE 10+       Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+       Image     S5 2 dB       Day/Night Switch     Day, Night, Auto, Schedule       Image Enhancement     BLC, HLC, 3D DNR       Image Parameters Switch     Yes       Image Settings     adjustable by client software or web browser       Interface     Ves       Built-in Microphone     -U: Yes       On-Board Storage     Built-in micro SD/SDHC/SDXC slot, up to 256 GB       Reset Key     Yes       Ethernet Interface     1 RJ45 10 M/100 M self-adaptive Ethernet port       Event     Motion detection (human and vehicle targets classification), video tampering alarm, exception		TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP,
Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface  MicroSD/SDHC/SDXC card (256 GB) local storage, and 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 Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Image SNR 252 dB Day/Night Switch Day, Night, Auto, Schedule Image Panameters Switch Yes Image Parameters Switch Yes Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser  Interface Built-in Microphone -U: Yes On-Board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB Reset Key Yes Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection	Protocols	
Security         Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface           Network Storage         MicroSD/SDHC/SDXC card (256 GB) local storage, and 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           Plug-in required live view: IE 10+         Plug-in required live view: Et 10+           Plug-in free live view: Chrome 57.0+, Firefox 52.0+         Local service: Chrome 57.0+, Firefox 52.0+           Image         S52 dB           Day/Night Switch         Day, Night, Auto, Schedule           Image Enhancement         BLC, HLC, 3D DNR           Image Settings         Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser           Interface         Built-in Microphone           On-Board Storage         Built-in micro SD/SDHC/SDXC slot, up to 256 GB           Reset Key         Yes           Ethernet Interface         1 N45 10 M/100 M self-adaptive Ethernet port           Event         Motion detection (human and vehicle targets classification), video tampering alarm, exception           Smart Event         Scene change detection	User/Host	Up to 32 users. 3 user levels: administrator, operator and user
And digest authentication for Open Network Video Interface  MicroSD/SDHC/SDXC card (256 GB) local storage, and 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 Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+  Image SNR ≥ 52 dB Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR Image Parameters Switch Yes Image Settings Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser  Interface Built-in Microphone -U: Yes Un-Board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB Reset Key Yes Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection		
Network Storage       MicroSD/SDHC/SDXC card (256 GB) local storage, and 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+         Plug-in free live view: Chrome 57.0+, Firefox 52.0+         Local service: Chrome 57.0+, Firefox 52.0+         Day/Night Switch       Day, Night, Auto, Schedule         Image Enhancement       BLC, HLC, 3D DNR         Image Parameters Switch       Yes         Image Settings       Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser         Interface       U: Yes         On-Board Storage       Built-in micro SD/SDHC/SDXC slot, up to 256 GB         Reset Key       Yes         Ethernet Interface       1 RJ45 10 M/100 M self-adaptive Ethernet port         Event       Motion detection (human and vehicle targets classification), video tampering alarm, exception         Smart Event       Scene change detection	Security	Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE
Network Storage     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+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Inage       SNR     \$ 52 dB       Day/Night Switch     Day, Night, Auto, Schedule       Image Enhancement     BLC, HLC, 3D DNR       Image Parameters Switch     Yes       Image Settings     Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser       Interface     Built-in Microphone       On-Board Storage     Built-in micro SD/SDHC/SDXC slot, up to 256 GB       Reset Key     Yes       Ethernet Interface     1 RJ45 10 M/100 M self-adaptive Ethernet port       Event     Motion detection (human and vehicle targets classification), video tampering alarm, exception       Smart Event     Scene change detection       Deep Learning Function		and digest authentication for Open Network Video Interface
Together with high-end Hikvision memory card, memory card encryption and health detection are supported.  Client iVMS-4200, Hik-Connect, Hik-Central Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+  Image  SNR ≥ 52 dB Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR Image Parameters Switch Yes Image Settings Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser  Interface  Built-in Microphone -U: Yes On-Board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB Reset Key Yes Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection		MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto
Together with high-end Hikvision memory card, memory card encryption and health detection are supported.  Client IVMS-4200, Hik-Connect, Hik-Central Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+  Image  SNR ≥ 52 dB  Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR Image Parameters Switch Yes Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser  Interface  Built-in Microphone -U: Yes On-Board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB Reset Key Yes Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection		network replenishment (ANR)
Client       IVMS-4200, Hik-Connect, Hik-Central         Web Browser       Plug-in required live view: IE 10+         Plug-in free live view: Chrome 57.0+, Firefox 52.0+         Local service: Chrome 57.0+, Firefox 52.0+         Image         SNR       ≥ 52 dB         Day/Night Switch       Day, Night, Auto, Schedule         Image Enhancement       BLC, HLC, 3D DNR         Image Parameters Switch       Yes         Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser         Interface         Built-in Microphone       -U: Yes         On-Board Storage       Built-in micro SD/SDHC/SDXC slot, up to 256 GB         Reset Key       Yes         Ethernet Interface       1 RJ45 10 M/100 M self-adaptive Ethernet port         Event       Motion detection (human and vehicle targets classification), video tampering alarm, exception         Smart Event       Scene change detection         Deep Learning Function	Network Storage	Together with high-end Hikvision memory card, memory card encryption and health
Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+  Image  SNR		detection are supported.
Web Browser       Plug-in free live view: Chrome 57.0+, Firefox 52.0+         Image         SNR       ≥ 52 dB         Day/Night Switch       Day, Night, Auto, Schedule         Image Enhancement       BLC, HLC, 3D DNR         Image Parameters Switch       Yes         Image Settings       Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser         Interface       U: Yes         On-Board Storage       Built-in micro SD/SDHC/SDXC slot, up to 256 GB         Reset Key       Yes         Ethernet Interface       1 RJ45 10 M/100 M self-adaptive Ethernet port         Event       Motion detection (human and vehicle targets classification), video tampering alarm, exception         Smart Event       Scene change detection         Deep Learning Function	Client	iVMS-4200, Hik-Connect, Hik-Central
Local service: Chrome 57.0+, Firefox 52.0+ImageSNR≥ 52 dBDay/Night SwitchDay, Night, Auto, ScheduleImage EnhancementBLC, HLC, 3D DNRImage Parameters SwitchYesImage SettingsRotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browserInterfaceU: YesOn-Board StorageBuilt-in micro SD/SDHC/SDXC slot, up to 256 GBReset KeyYesEthernet Interface1 RJ45 10 M/100 M self-adaptive Ethernet portEventMotion detection (human and vehicle targets classification), video tampering alarm, exceptionSmart EventScene change detectionDeep Learning Function		Plug-in required live view: IE 10+
SNR ≥ 52 dB  Day/Night Switch Day, Night, Auto, Schedule  Image Enhancement BLC, HLC, 3D DNR  Image Parameters Switch Yes  Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser  Interface  Built-in Microphone -U: Yes  On-Board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB  Reset Key Yes  Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection  Deep Learning Function	Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+
SNR≥ 52 dBDay/Night SwitchDay, Night, Auto, ScheduleImage EnhancementBLC, HLC, 3D DNRImage Parameters SwitchYesImage SettingsRotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browserInterface-U: YesBuilt-in Microphone-U: YesOn-Board StorageBuilt-in micro SD/SDHC/SDXC slot, up to 256 GBReset KeyYesEthernet Interface1 RJ45 10 M/100 M self-adaptive Ethernet portEventEventBasic EventMotion detection (human and vehicle targets classification), video tampering alarm, exceptionSmart EventScene change detectionDeep Learning Function		Local service: Chrome 57.0+, Firefox 52.0+
Day/Night Switch Image Enhancement BLC, HLC, 3D DNR Image Parameters Switch Image Settings Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser  Interface Built-in Microphone -U: Yes On-Board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB Reset Key Yes Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event  Deep Learning Function	Image	
Image EnhancementBLC, HLC, 3D DNRImage Parameters SwitchYesImage SettingsRotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browserInterfaceBuilt-in Microphone-U: YesOn-Board StorageBuilt-in micro SD/SDHC/SDXC slot, up to 256 GBReset KeyYesEthernet Interface1 RJ45 10 M/100 M self-adaptive Ethernet portEventMotion detection (human and vehicle targets classification), video tampering alarm, exceptionSmart EventScene change detectionDeep Learning Function	SNR	≥ 52 dB
Image Parameters Switch Image Settings Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser  Interface Built-in Microphone -U: Yes On-Board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB Reset Key Yes Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection  Deep Learning Function	Day/Night Switch	Day, Night, Auto, Schedule
Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser  Interface  Built-in Microphone -U: Yes On-Board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB  Reset Key Yes Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection  Deep Learning Function	Image Enhancement	BLC, HLC, 3D DNR
Interface  Built-in Microphone -U: Yes On-Board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB Reset Key Yes Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection  Deep Learning Function	Image Parameters Switch	Yes
Interface  Built-in Microphone -U: Yes  On-Board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB  Reset Key Yes  Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection  Deep Learning Function	Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance
Built-in Microphone -U: Yes On-Board Storage Built-in micro SD/SDHC/SDXC slot, up to 256 GB Reset Key Yes Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection  Deep Learning Function	iiiage settiligs	adjustable by client software or web browser
On-Board Storage  Reset Key  Yes  Ethernet Interface  1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Basic Event  Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event  Scene change detection  Deep Learning Function	Interface	
Reset Key  Ethernet Interface  1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Basic Event  Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event  Scene change detection  Deep Learning Function	Built-in Microphone	-U: Yes
Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port  Event  Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection  Deep Learning Function	On-Board Storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Event  Basic Event  Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event  Scene change detection  Deep Learning Function	Reset Key	Yes
Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception  Smart Event Scene change detection  Deep Learning Function	Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Basic Event exception  Smart Event Scene change detection  Deep Learning Function	Event	
exception  Smart Event  Scene change detection  Deep Learning Function	Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm,
Deep Learning Function		exception
	Smart Event	Scene change detection
Face Capture Yes	Deep Learning Function	
	Face Capture	Yes



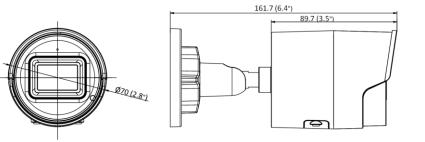
Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection	
General		
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)	
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)	
Power Supply	12 VDC ± 25%, reverse polarity protection PoE: 802.3af, Class 3	
Power Consumption and Current	12 VDC, 0.5 A, max. 6.0 W PoE (802.3af, 36 V to 57 V), 0.2 A to 0.13 A, max. 7.0 W	
Power Interface	Ø5.5 mm coaxial power plug	
Material	ADC12	
Dimension	Ø70 mm × 161.7 mm (Ø2.8" × 6.4")	
Package Dimension	216 mm × 121 mm × 118 mm (8.5" × 4.8" × 4.6")	
Weight	Approx. 485 g (1.1 lb.)	
With Package Weight	Approx. 724 g (1.6 lb.)	
Linkage Method	Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email	
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	Anti-flicker, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter	
Software Reset	Yes	
Firmware Version	V5.5.112	
Approval		
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 + A1: 2014); RCM (AS/NZS CISPR 32: 2015); KC (KN 32: 2015, KN 35: 2015)	
Safety	UL (UL 60950-1); CB (IEC 60950-1: 2005 + Am 1: 2009 + Am 2: 2013); CE-LVD (EN 60950-1: 2005 + Am 1: 2009 + Am 2: 2013); LOA (IEC/EN 60950-1)	
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)	
Protection	IP67 (IEC 60529-2013)	

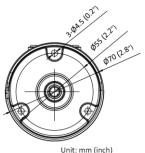
## Available Model

DS-2CD2046G2-IU (2.8/4/6 mm) DS-2CD2046G2-I (2.8/4/6 mm)



## Dimension





## Accessory

## Optional



Distributed by

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