

#### DS-2CD2032F-I(W)



### **Key Features**

- Up to 3 megapixel 2048×1536 @ 20 fps resolution
- Standard video compression with high compression ratio, ROI (region of interest) encoding
- Progressive scan CMOS, capture motion video without incised margin
- Support dual stream, and the sub-stream for mobile surveillance
- High-performance and long service life Infrared LED, Approx. 20 to 30 meters IR range
- IR cut filter with auto switch
- Built-in Micro SD / SDHC / SDXC card slot, up to 128GB
- Support Wifi (-W)
- PoE (Power over Ethernet)
- Ingress Protection level: IP66
- Electronic shutter for different surveillance environments
- Other functions: alarm, reset button, mirror, etc
- Support intrusion detection, line crossing detection
- Support VCA, which is compatible with NVR for the second time of video searching and analysing

## **Specification**

Model	DS-2CD2032F-I(W)
Parameter	3 Megapixel CMOS ICR Infrared Network Bullet Camera



Image Sensor   1/3" Progressive Scan CMOS	Camera		
Min. Illumination  O.07Lux @ (F1.2, AGC ON) , 0 Lux with IR  I/3 s to 1/100,000 s  4mm@ F2.0 (6mm optional)  2048 × 1536:  Angle of view: 70°(4mm), 43.3°(6mm), 20.6°(12mm) 1920 × 1080:  Angle of view: 79°(4mm), 49°(6mm), 23.2°(12mm)  Lens Mount  M12  Day & Night  IR cut filter with auto switch  Digital Noise Reduction  Wide Dynamic Range  Compression  Video Compression  Video Compression  Video Opyression  H .264/ MJPEG  Video Bit Rate  32 Kbps – 12 Mbps  Dual Stream  Yes  Image  Max. Resolution  2048×1536  Frame Rate  50Hz: 20fps (2048 × 1536), 25fps (1920 × 1080), 25fps (1280 × 720) 60Hz: 20fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720) 60Hz: 20fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720) Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser  Backlight compensation  ROI  Support  Network  Network Storage  Built-in Micro SD / SDHC / SDXC card slot, up to 128GB NAS (Support NFS,SMB/CIFS)  Line Crossing, Intrusion Detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect , IP address conflict, Storage exception  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP, PPPOE,NTP,UPNP,SMP,IGMP,802.1X,QoS,IPv6,Bonjour One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard		1/3" Progressive Scan CMOS	
Shutter Speed  1/3 s to 1/100,000 s  4mm@ F2.0 (6mm optional)  2048 × 1536:  Angle of view: 70°(4mm), 43.3°(6mm), 20.6°(12mm) 1920 × 1080:  Angle of view: 79°(4mm), 49°(6mm), 23.2°(12mm)  Lens Mount  Day &Night  IR cut filter with auto switch  Digital Noise Reduction  Wide Dynamic Range  Compression Standard  Video Compression  Video Compression  Video Sit Rate  12 Kbps – 12 Mbps  Dual Stream  Yes  Image  Max. Resolution  2048×1536  Frame Rate  50Hz: 20fps (2048 × 1536), 25fps (1920 × 1080), 25fps (1280 × 720) 60Hz: 20fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720)  Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser  Backlight  compensation  ROI  Support  Network  Network Storage  Built-in Micro SD / SDHC / SDXC card slot, up to 128GB  NAS (Support NFS, SMB/CIFS)  Line Crossing, Intrusion Detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DTNS,RTP,RTSP,RTCP, PPDE,NTP,UPPP,SMTP,SMP,IGMP,802.1X,QoS,IPV6,Bonjour  One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard  ONVIF, PSIA, CGI, ISAPI			
Lens  Angle of view: 70°(4mm), 43.3°(6mm), 20.6°(12mm) 1920 × 1080: Angle of view: 79°(4mm), 49.3°(6mm), 23.2°(12mm) 1920 × 1080: Angle of view: 79°(4mm), 49°(6mm), 23.2°(12mm)  Lens Mount  Day &Night  Digital Noise Reduction  Wide Dynamic Range  Compression Standard  Video Compression  Video Compression  Video Bit Rate  32 Kbps – 12 Mbps  Dual Stream  Yes  Image  Max. Resolution  50Hz: 20fps (2048 × 1536), 25fps (1920 × 1080), 25fps (1280 × 720) 60Hz: 20fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720) 60Hz: 20fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720)  Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser  Backlight compensation  ROI  Support  Network  Network Storage  Built-in Micro SD / SDHC / SDXC card slot, up to 128GB NAS (Support NFS, SMB/CIFS)  Line Crossing, Intrusion Detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP, PPOE,NTP,UPNP,SMTP,SMP,IGMP,802.1X,QoS,IPv6,Bonjour One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard		· · ·	
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Reduction Wide Dynamic Range Compression Standard Video Compression Video Bit Rate Dual Stream Frame Rate Solution Frame Rate Solution  Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser  Backlight compensation ROI Support  Network Network Storage Protocols Protocols  Protocols  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP, PPPoE,NTP,UPnP,SMTP,SMMP,IGMP,802.1X,QoS,IPv6,Bonjour One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access Standard  Network Pride Digital WDR  H. 264/ MJPEG  H. 264/ MJPEG  WH264/ MJPEG  H. 264/ MJPEG  WH264/ MJPEG  H. 264/ MJPEG  WH264/ MJPEC  WH264/ MJPE	Digital Noise	3D DND	
Compression Standard         Video Compression       H.264/ MJPEG         Video Bit Rate       32 Kbps – 12 Mbps         Dual Stream       Yes         Image         Max. Resolution       2048×1536         Frame Rate       50Hz: 20fps (2048 × 1536), 25fps (1920 × 1080), 25fps (1280 × 720) (60Hz: 20fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720)         Image Settings       Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser         Backlight compensation       Yes, zone optional         ROI       Support         Network       Built-in Micro SD / SDHC / SDXC card slot, up to 128GB NAS (Support NFS,SMB/CIFS)         Alarm Trigger       Line Crossing, Intrusion Detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect , IP address conflict, Storage exception         Protocols       TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP, PPPoE,NTP,UPnP,SMTP,SMP,IGMP,802.1X,QoS,IPv6,Bonjour         One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access         Standard       ONVIF, PSIA, CGI, ISAPI	Reduction	3D DINK	
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Frame Rate  50Hz: 20fps (2048 × 1536), 25fps (1920 × 1080), 25fps (1280 × 720) 60Hz: 20fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720)  Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser  Backlight compensation  ROI  Support  Network  Built-in Micro SD / SDHC / SDXC card slot, up to 128GB NAS (Support NFS,SMB/CIFS)  Line Crossing, Intrusion Detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect , IP address conflict, Storage exception  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP, PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour  One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard  ONVIF, PSIA, CGI, ISAPI	Image		
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Backlight compensation  ROI Support  Network  Network Storage  Alarm Trigger  Protocols  Protocols  Capport  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour  One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard  Support  Yes, zone optional  Yes, zone optional  Yes, zone optional  Support  Yes, zone optional  Support  FDRACH, SDXC card slot, up to 128GB  NAS (Support NFS,SMB/CIFS)  Line Crossing, Intrusion Detection, Motion detection, Dynamic analysis,  Tampering alarm, Network disconnect, IP address conflict, Storage exception  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP, PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour  One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard	Frame Rate	60Hz: 20fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720)	
Backlight compensation  ROI Support  Network  Network Storage  Alarm Trigger  Protocols  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour  One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard  Yes, zone optional  Network  Physical Plasses  Alarm Trigger  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP, PPPOE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour  One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard	Image Settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client	
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Network Storage  NAS (Support NFS,SMB/CIFS)  Line Crossing, Intrusion Detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP, PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour  One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard  ONVIF, PSIA, CGI, ISAPI	Network		
Alarm Trigger  Line Crossing, Intrusion Detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP, PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard ONVIF, PSIA, CGI, ISAPI	Network Storage	• • • • • • • • • • • • • • • • • • • •	
Alarm Trigger  Tampering alarm, Network disconnect, IP address conflict, Storage exception  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP, PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour  One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard  ONVIF, PSIA, CGI, ISAPI			
Protocols  Protocols  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP, PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour  One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard  ONVIF, PSIA, CGI, ISAPI	Alama Titanan		
Protocols  TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP, PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour  One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard  ONVIF, PSIA, CGI, ISAPI	Alarm Trigger		
Protocols  PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour  One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard  ONVIF, PSIA, CGI, ISAPI	Protocols		
One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard ONVIF, PSIA, CGI, ISAPI			
General password protection, privacy mask, watermark, IP address filtering, Anonymous access  Standard ONVIF, PSIA, CGI, ISAPI	General	-	
Anonymous access Standard ONVIF, PSIA, CGI, ISAPI			
Standard ONVIF, PSIA, CGI, ISAPI			
Interface	Standard	*	
IIICITUCE	Interface		



Communication	4 2145 4004/40004 511	
Interface	1 RJ45 10M/100M Ethernet interface	
Reset Button	Yes	
Wi-Fi Specification(Only for the products with Wi-Fi module built-in)		
Wireless Standards	IEEE802.11b, 802.11g, 802.11n	
Frequency Range	2.4 GHz ~ 2.4835 GHz	
Channel Bandwidth	20/40MHz Support	
Protocols	802.11b: CCK, QPSK, BPSK	
	802.11g/n: OFDM	
Security	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS	
Transmit Output	11b: 17±1.5dBm @ 11Mbps	
	11g: 14±1.5dBm @ 54Mbps	
rowei	11n: 12.5±1.5dBm	
	11b: -90dBm @ 11Mbps (Typical)	
Receive Sensitivity	11g: -75dBm @ 54Mpbs (Typical)	
	11n: -74dBm (Typical)	
	11b: 11Mbps	
Transfer Rates	11g: 54Mbps	
	11n: up to 150Mbps	
Wireless Range	50m(depend on environment)	
General		
Operating Conditions	-30 °C – 60 °C (-22 °F – 140 °F)	
Operating Conditions	Humidity 95% or less (non-condensing)	
Power Supply	12 V DC ± 10%	
rower supply	PoE (802.3af)	
Power Consumption	Max. 5 W (Max. 7 W with IR cut filter on)	
Ingress Protection	IP66	
level		
IR Range	Approx. 20 to 30 meters	
Dimensions	60.4×76.9×139.28 mm (2.4" × 3.0" × 5.5")	
Weight	500g (1.1 lbs)	

# **Order Models**

DS-2CD2032F-I, DS-2CD2032F-IW



## **Dimensions**

