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## DS-2CD2020F-I



### Key Features

- Up to 2 megapixel (1920 × 1080) 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 64GB
- PoE (Power over Ethernet)
- Ingress Protection level: IP66
- Electronic shutter for different surveillance environments
- Other functions: alarm, reset button, mirror, etc
- Support intrusion detection and line crossing detection
- Support VCA, which is compatible with NVR for the second time of video searching and analysing

### Specification

|              |   |
|--------------|---|
| Model        | DS-2CD2020F-I(W)                                    |
| Parameter    | 2 Megapixel CMOS ICR Infrared Network Bullet Camera |
| Camera       |   |
| Image Sensor | 1/2.8" Progressive Scan CMOS                        |

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|--|--|
| Min. Illumination  | 0.01Lux @ (F1.2, AGC ON) ,0 Lux with IR<br>0.028Lux @ (F2.0, AGC ON) ,0 Lux with IR  |
| Shutter Speed  | 1/3 s to 1/100,000 s   |
| Lens   | 4mm@ F2.0, Angle of view: 85°<br>(6mm optional)  |
| Lens Mount   | M12  |
| Day &Night   | IR cut filter with auto switch   |
| Digital Noise Reduction  | 3D DNR   |
| Wide Dynamic Range   | Digital WDR  |
| <b>Compression Standard</b>  |  |
| Video Compression  | H.264/ MJPEG   |
| Video Bit Rate   | 32 Kbps – 8 Mbps   |
| Dual Stream  | Yes  |
| <b>Image</b>   |  |
| Max. Resolution  | 1920 × 1080  |
| Frame Rate   | 50Hz: 25fps(1920 × 1080), 25fps (1280 × 960), 25fps (1280 × 720)<br>60Hz: 30fps(1920 × 1080), 30fps (1280 × 960), 30fps (1280 × 720)                           |
| Image Settings   | Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser   |
| Backlight compensation   | Yes, zone optional   |
| ROI  | Support  |
| <b>Network</b>   |  |
| Network Storage  | NAS (Support NFS,SMB/CIFS)   |
| Alarm Trigger  | Intrusion detection, Line crossing 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,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour  |
| General  | One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access          |
| Standard   | ONVIF, PSIA, CGI, ISAPI  |
| <b>Interface</b>   |  |
| Communication Interface  | 1 RJ45 10M/100M Ethernet interface   |
| On-board storage   | Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB   |
| Reset Button   | Yes  |
| <b>Wi-Fi Specification(Only for the products with Wi-Fi module built-in)</b> |  |
| 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<br>802.11g/n: OFDM   |
| Security                 | 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS   |
| Transmit Output Power    | 11b: 17±1.5dBm @ 11Mbps<br>11g: 14±1.5dBm @ 54Mbps<br>11n: 12.5±1.5dBm                    |
| Receive Sensitivity      | 11b: -90dBm @ 11Mbps (Typical)<br>11g: -75dBm @ 54Mbps (Typical)<br>11n: -74dBm (Typical) |
| Transfer Rates           | 11b: 11Mbps<br>11g: 54Mbps<br>11n: up to 150Mbps  |
| Wireless Range           | 50m(depend on environment)  |
| <b>General</b>           |   |
| Operating Conditions     | -30 °C – 60 °C (-22 °F – 140 °F)<br>Humidity 95% or less (non-condensing)                 |
| Power Supply             | 12 V DC ± 10% , PoE (802.3af)   |
| Power Consumption        | 5W MAX (Max. 7 W as IR cut filter on)   |
| Ingress Protection level | IP66  |
| IR Range                 | 30 meters   |
| Dimensions               | 60.4×76.9×139.28 mm (2.4" × 3.0" × 5.5")  |
| Weight                   | 500g (1.1 lbs)  |

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## Dimensions

