# HIKVISION®

## DS-2CV2U21FD-IW
## 2 MP IR Fixed Network Cube Camera

- 1/2.7" Progressive Scan CMOS
- 1920 × 1080@30fps
- BLC, HLC, 3D DNR
- H.265, H.265+, H.264, H.264+

- IR range: Up to 10 m
- Built-in micro SD/SDHC/SDXC card slot, up to 256 GB
- Built-in Wi-Fi
- Mobile Monitoring via Hik-Connect

www.hikvision.com

## Specifications

| Camera | |
|---|---|
| Image Sensor | 1/2.7" Progressive Scan CMOS |
| Min. Illumination | Color: 0.028 Lux @ (F2.0, AGC ON), 0 Lux with IR |
| Shutter Speed | 1/3 s to 1/100,000 s |
| Slow Shutter | Yes |
| Day & Night | IR Cut Filter |
| WDR | DWDR |
| Angle Adjustment | Pan: 0° to 360°, Tilt: -70° to 25° |

| Lens | |
|---|---|
| Lens Type | Fixed lens, 2.8 mm |
| Aperture | 2.8 mm: F2.0 |
| FOV | 2.8 mm@F2.0: horizontal FOV: 112°, vertical FOV: 60°, diagonal FOV: 132° |
| Lens Mount | M12 |

| Illuminator | |
|---|---|
| IR Range | Up to 10 m |
| Wavelength | 850 nm |

| Video | |
|---|---|
| Max. Resolution | 1920 × 1080 |
| Main Stream | 50Hz: 25fps (1920 × 1080, 1280 × 720)<br>60Hz: 30fps (1920 × 1080, 1280 × 720) |
| Sub Stream | 50Hz: 25fps (640 × 360)<br>60Hz: 30fps (640 × 360) |
| Video Compression | Main stream: H.265+/H.264+/H.265/H.264<br>Sub-stream: H.265/H.264/MJPEG |
| H.264 Type | Baseline Profile/Main Profile |
| H.265 Type | Main Profile |
| Video Bit Rate | 32 Kbps to 8 Mbps |

| Audio | |
|---|---|
| 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) |
| Environment Noise Filtering | Yes |
| Audio Sampling Rate | 8 kHz/16 kHz |

| Smart Feature-Set | |
|---|---|
| Basic Event | Motion detection, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error) |
| Linkage Method | Upload to NAS/memory card, notify surveillance center, trigger recording, trigger capture, audible warning |

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## Image

| | |
|---|---|
| Image Enhancement | BLC, HLC, 3D DNR |
| Image Setting | Saturation, brightness, contrast, sharpness, AGC and white balance adjustable by client software |
| Day/Night Switch | Day/Night/Auto/Schedule |
| SNR | > 50dB |

## Network

| | |
|---|---|
| Network Storage | microSD/SDHC/SDXC card (256 GB) local storage, ANR and NAS (NFS,SMB/CIFS) |
| Protocols | TCP/IP, ICMP, DHCP, DNS, DDNS, HTTP, RTP, RTSP, NTP, UPnP, IGMP, IPv6, UDP, QoS, Bonjour |
| API | ISAPI, SDK |
| Security | Password protection, complicated password, watermark, IP address filter |
| Simultaneous Live View | Up to 6 channels |
| User/Host | Up to 32 users, 3 levels: administrator, operator and user |
| Client | iVMS-4200, Hik-Connect, iVMS-4500 |

## Interface

| | |
|---|---|
| Audio | Built-in microphone & speaker |
| On-board storage | Built-in micro SD/SDHC/SDXC slot, up to 256 GB |

## Wi-Fi

| | |
|---|---|
| Protocol | IEEE802.11b, 802.11g, 802.11n |
| Frequency | 2.4 GHz - 2.4835 GHz |
| Channel Bandwidth | 20/40MHz Support |
| Modulation | 802.11b: DSSS, 802.11g: OFDM, 802.11n(20MHz&40MHz): OFDM |
| Security | 64/128-bit WEP, WPA-EAP/WPA2-EAP, WPA-PSK/WPA2-PSK |
| Transfer Rate | 11b: 11Mbps, 11g: 54Mbps, 11n: up to 150Mbps |
| Wireless Range | 80 meters (The performance varies based on actual environment) |

## General

| | |
|---|---|
| General Function | Anti-flicker, heartbeat, mirror, password protection, flash log |
| Reset | Reset via reset button on camera body and client software |
| Startup and Operating Conditions | -10 °C to 40°C (14 °F to 104 °F), humidity 95% or less (non-condensing) |
| Storage Conditions | -10 °C to 40°C (14 °F to 104 °F), humidity 95% or less (non-condensing) |
| Power Supply | 5 VDC ± 10%, micro USB interface |
| Power Consumption and Current | 5 VDC, 1.3 A, max. 6.5 W |
| Material | Plastic |
| Dimensions | Camera: Ø64 × 112 mm (Ø2.5'' × 4.4'')<br>With package: 216 × 121 × 118 mm (8.5'' × 4.8'' × 4.6'') |
| Weight | Camera: Approx. 120 g (0.3 lb.)<br>With package: Approx. 390 g (0.9 lb.) |

| Approval | |
|---|---|
| EMC | 47 CFR Part 15, Subpart B; EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014; AS/NZS CISPR 32: 2015; ICES-003: Issue 6, 2016; KN 32: 2015, KN 35: 2015 |
| Safety | UL 60950-1, IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IS 13252(Part 1):2010+A1:2013+A2:2015, IEC/EN 60950-1 |
| Chemistry | 2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006 |

*Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.*

## Available Model

DS-2CV2U21FD-IW (2.0 mm)
DS-2CV2U21FD-IW (2.8 mm)

## ▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

| Level | Description |
|---|---|
| Top-level protection | Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more. |
| Moderate protection | Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain. |
| No specific protection | Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed. |

## Dimension

60.1(2.4")

41.5(1.6")

80.5(3.2")

106.9(4.2")

Φ64(2.5")
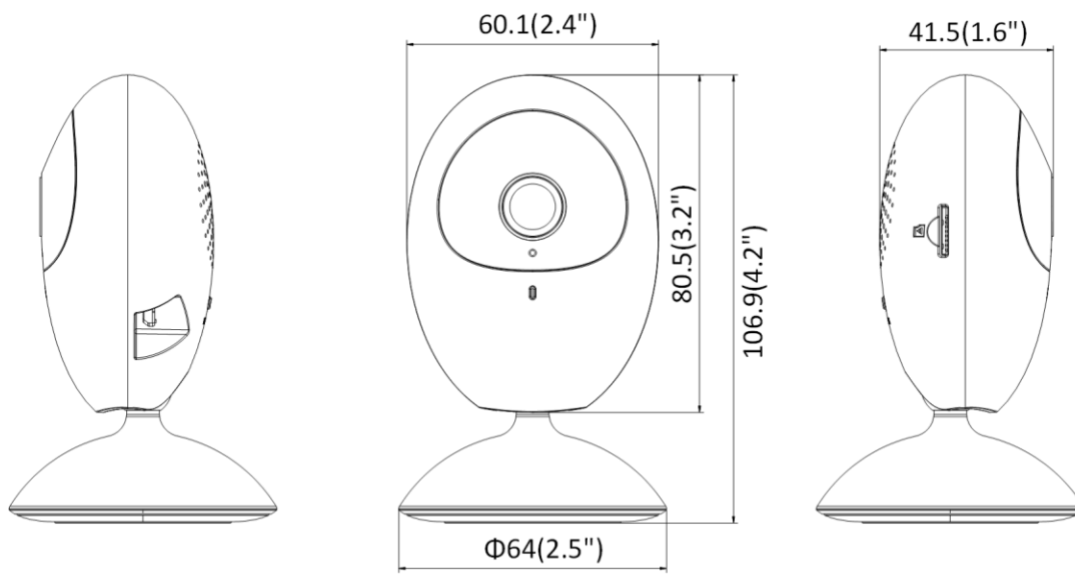
Unit: mm(inch)

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