

## DS-2CD5046G0-(AP) 4 MP Smart Network Box Camera

**DarkFighter**



- 1/1.8" Progressive Scan CMOS
- 2560 × 1440 @ 30 fps, MJPEG up to 1920 × 1080 @ 30 fps
- Color: 0.002 Lux @ (F1.2, AGC ON)
- H.265, H.265+, H.264+, H.264
- 140dB WDR
- Auto iris, P-iris optional
- Auto back focus optional
- 6 behavior analyses, 3 exception detections, face detection, and counting
- 5 defined streams and up to 5 custom streams supported
- On-board storage up to 256 GB



## Specifications

| <b>Camera</b>               |                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | 1/1.8" Progressive Scan CMOS                                                                                                                              |
| Min. Illumination           | Color: 0.002 Lux @ (F1.2, AGC ON)<br>B/W: 0.0002 Lux @ (F1.2, AGC ON)                                                                                     |
| Shutter Speed               | 1 s to 1/100,000 s                                                                                                                                        |
| Slow Shutter                | Yes                                                                                                                                                       |
| Auto-iris                   | DC drive<br>With –P model: P-iris                                                                                                                         |
| Day & Night                 | IR Cut Filter                                                                                                                                             |
| Digital Noise Reduction     | 3D DNR                                                                                                                                                    |
| WDR                         | 140 dB                                                                                                                                                    |
| Focus                       | With –A model: support ABF (auto back focus)                                                                                                              |
| <b>Lens</b>                 |                                                                                                                                                           |
| Lens Mount                  | CS mount                                                                                                                                                  |
| <b>Compression Standard</b> |                                                                                                                                                           |
| Video Compression           | Main stream: H.265/H.264/H.264+/H.265+<br>Sub stream/third stream/fourth stream/fifth stream/custom stream: H.265/H.264/MJPEG                             |
| H.264 Type                  | Baseline Profile/Main Profile/High Profile                                                                                                                |
| H.264+                      | Main stream support                                                                                                                                       |
| H.265 Type                  | Main Profile                                                                                                                                              |
| H.265+                      | Main stream support                                                                                                                                       |
| Video Bit Rate              | 256 Kbps to 16 Mbps                                                                                                                                       |
| Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM                                                                                                                             |
| Audio Bit Rate              | 64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32-192 Kbps (MP2L2)/128-768 Kbps (PCM)                                                                  |
| <b>Smart Feature-set</b>    |                                                                                                                                                           |
| Behavior Analysis           | Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection |
| Exception Detection         | Scene change detection, audio exception detection, defocus detection                                                                                      |
| Face Detection              | Yes                                                                                                                                                       |
| Statistics                  | Counting                                                                                                                                                  |
| Region of Interest          | Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed regions for each stream and dynamic face tracking                                 |
| <b>Image</b>                |                                                                                                                                                           |
| Max. Resolution             | 2560 × 1440                                                                                                                                               |
| Main Stream                 | 50Hz: 25fps (2560 × 1440, 1920 × 1080, 1280 × 720)<br>60Hz: 30fps (2560 × 1440, 1920 × 1080, 1280 × 720)                                                  |
| Sub Stream                  | 50Hz: 25fps (704 × 576, 640 × 480)<br>60Hz: 30fps (704 × 480, 640 × 480)                                                                                  |
| Third Stream                | 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)<br>60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)                                |
| Fourth Stream               | 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)<br>60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)                                |
| Fifth Stream                | 50Hz: 25fps (704 × 576, 640 × 480)<br>60Hz: 30fps (704 × 480, 640 × 480)                                                                                  |

|                               |                                                                                                                                                                                                   |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Custom Stream                 | 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)<br>60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)<br>Up to 5 custom streams are supported                                |
| Image Enhancement             | BLC, HLC, defog, 3D DNR, EIS                                                                                                                                                                      |
| Image Setting                 | Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser                                                                 |
| 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 microSD/SDHC/SDXC card (256 GB) 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                                                             |
| Security Measures             | Password protection, HTTPS encryption, IEEE 802.1x port-based network access control, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF |
| General Function              | One-key reset, anti-flicker, five streams and up to 5 custom streams, heartbeat, password protection, privacy mask, watermark, IP address filter                                                  |
| API                           | ONVIF (PROFILE S, PROFILE G), ISAPI, SDK                                                                                                                                                          |
| Simultaneous Live View        | Up to 20 channels                                                                                                                                                                                 |
| User/Host                     | Up to 32 users. 3 user levels: administrator, operator and user                                                                                                                                   |
| Client                        | iVMS-4200, Hik-Connect, iVMS-5200, Hik-Central                                                                                                                                                    |
| Web Browser                   | IE8+, Mozilla Firefox 30.0+, Google Chrome 31.0+, Safari 8.0+<br>Plug-in free live view supported                                                                                                 |
| <b>Interface</b>              |                                                                                                                                                                                                   |
| Audio                         | 1-ch 3.5 mm input (line in), 1-ch 3.5 mm output, mono sound                                                                                                                                       |
| Communication Interface       | 1 RJ45 10M/100M/1000M Ethernet port<br>1 RS-485 interface (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)                                                                               |
| Alarm                         | 2 inputs<br>2 outputs (alarm output supports up to 24 VDC, 1A or 110 VAC, 500 mA)                                                                                                                 |
| Video Output                  | 1Vp-p composite output (75 Ω/CVBS)                                                                                                                                                                |
| Power Output                  | 12 VDC, max. 200 mA (supported by 12 VDC, 24 VAC and PoE)                                                                                                                                         |
| On-board storage              | Built-in micro SD/SDHC/SDXC slot, up to 256 GB                                                                                                                                                    |
| BNC                           | CVBS analog output (4CIF resolution)                                                                                                                                                              |
| Reset Button                  | Yes                                                                                                                                                                                               |
| <b>Audio</b>                  |                                                                                                                                                                                                   |
| Environment Noise Filtering   | Yes                                                                                                                                                                                               |
| Audio Sampling Rate           | 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz                                                                                                                                                               |
| <b>General</b>                |                                                                                                                                                                                                   |
| Firmware Version              | 5.5.50                                                                                                                                                                                            |
| Operating Conditions          | -30 °C to 60 °C (-22 °F to 140 °F), humidity 95% or less (non-condensing)                                                                                                                         |
| Power Supply                  | 12 VDC ± 20%, 24 VAC ± 20%, PoE (802.3af, class 3)<br>Terminal block for DC and AC input                                                                                                          |
| Power Consumption and Current | 12 VDC ± 20%, 0.6 A, max. 7 W<br>24 VAC ± 20%, 0.3 A, max. 7 W<br>PoE (802.3af, 36V to 57V), 0.1 A to 0.3 A                                                                                       |

|            |                                                                                                                                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------|
| Material   | Aluminum alloy                                                                                                                   |
| Dimensions | 142.6 × 69.8 × 68 mm (5.61" × 2.75" × 2.68")<br>With package: 315 × 140 × 140 mm (12.4" × 5.51" × 5.51")                         |
| Weight     | -AP: approx. 730 g (1.61 lb.), 1020 g (2.25 lb.) with package<br>Non-AP: approx. 690 g (1.52 lb.), 975 g (2.15 lb.) with package |

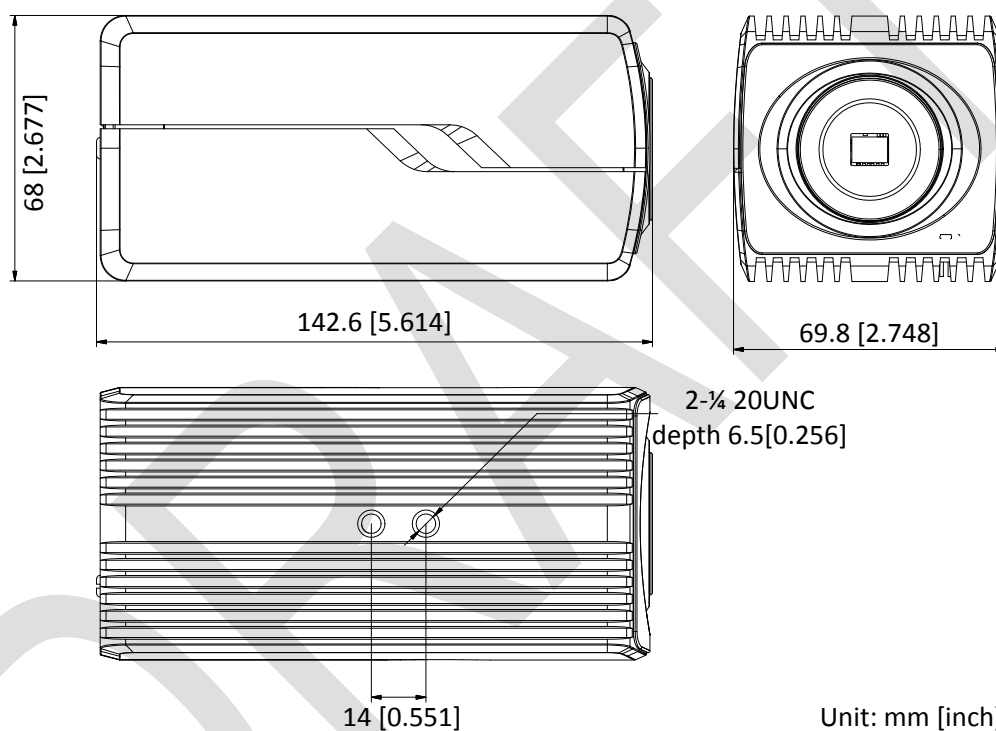
\* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

## Available Models:

DS-2CD5046G0, DS-2CD5046G0-AP

\*-AP: support ABF (auto back focus) and P-iris

## Dimensions



Unit: mm [inch]

## Accessories



DS-1292ZJ  
Wall Mount



DS-1299ZJ  
Pendant Mount



DS-1332HZ  
Indoor Housing



DS-1331HZ Series  
Outdoor Housing



HV3816D-8MPIR  
3.8 to 16 mm DC Iris



HV1140D-8MPIR  
11 to 40 mm DC Iris



HV3816P-8MPIR  
3.8 to 16 mm P-iris



HV0733D-6MP  
7 to 33 mm DC Iris



Distributed by HF3417D-12MPIR  
3.4 mm DC Iris



HV0415D-MP  
4 to 15 mm DC Iris



HV1250D-MPIR  
12 to 50 mm DC Iris



HV1140P-8MPIR  
11 to 40 mm P-Iris

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