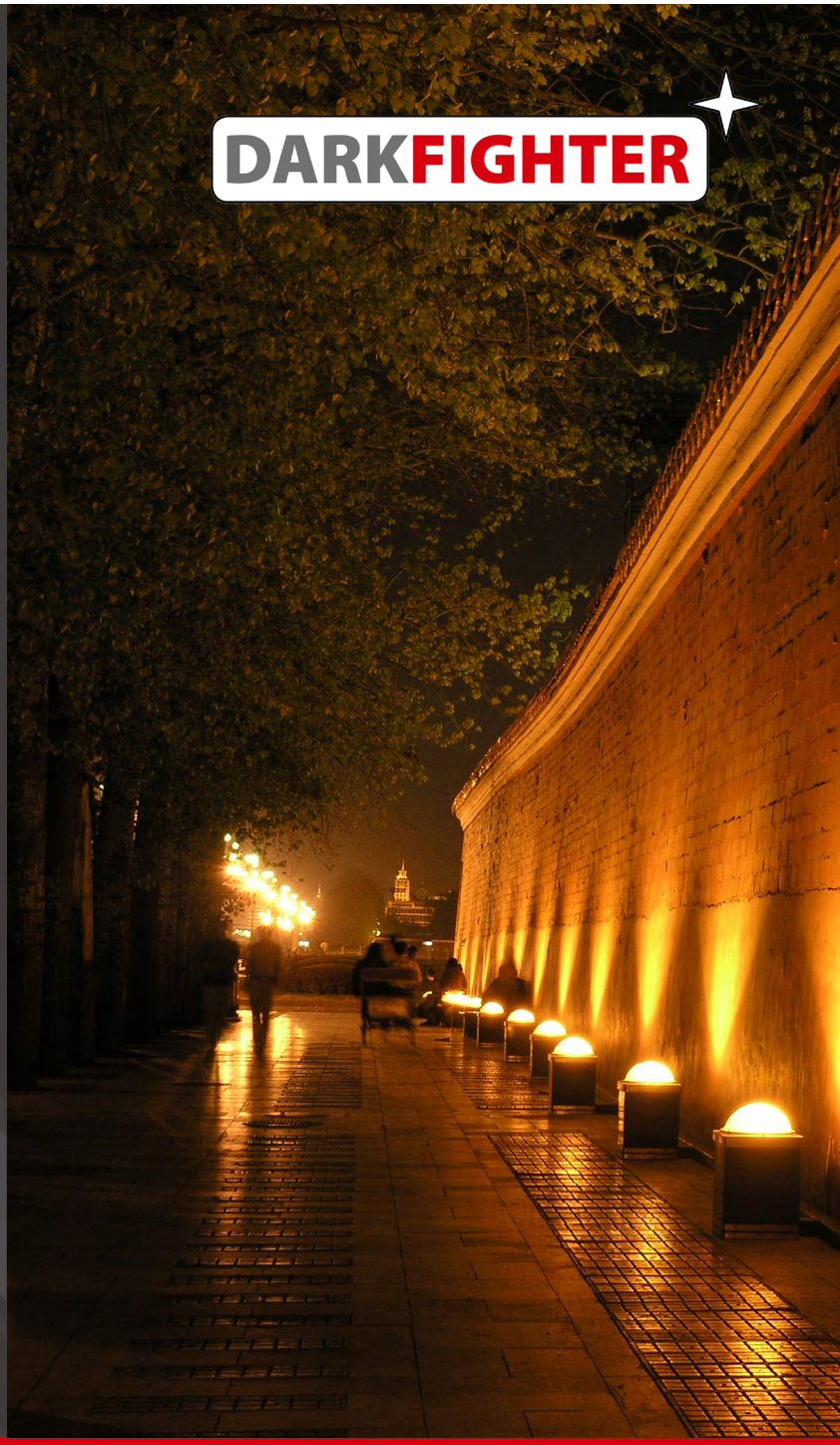
HIKVISION




# DON'T BE LEFT IN THE DARK!

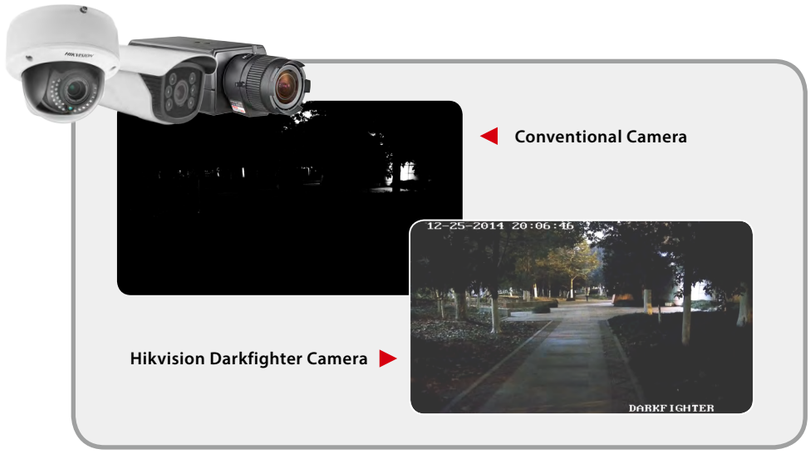
# DARKFIGHTER

## Network Cameras

# Key Features

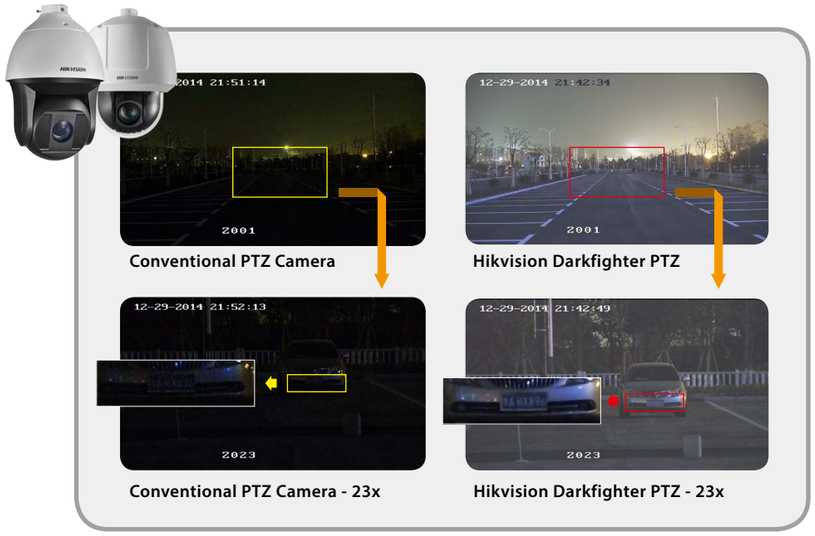
**Industrial-leading ultra-low light technology, complete product offering and rich smart functions make colored images possible in dim light environment.**

## Darkfighter Network Camera

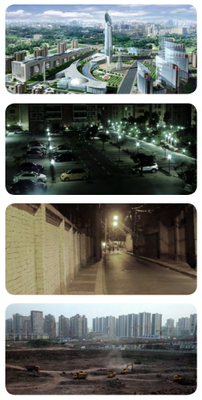



Recommended Scenarios

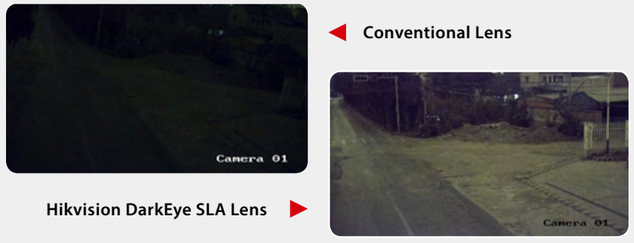
## Darkfighter Network PTZ Camera




Recommended Scenarios




## DARKEYE Maximum performance with DarkEye SLA lens (Super Large Aperture)




**Description**

Featuring F0.95 consistent aperture, the DarkEye Super Large Aperture lens can truly ice on the cake of Hikvision Darkfighter performance.

**HV0733D-6MP**

- Up to 6MP resolution
- Focal length: 7~33mm
- Aperture: F0.95-C
- Format: 1/1.8"

# Unrivaled Performance in Smart IPC

## SMART SOLUTION

From front-end Smart Detection to back-end Smart Playback/backup, Hikvision offers structured content-based Smart Solution that will increase significantly the efficacy of post-event investigation and also make a big save on storage space.

*Smart Detection* → *Smart Analyze & Search* → *Smart Backup*

## SMART APPLICATION

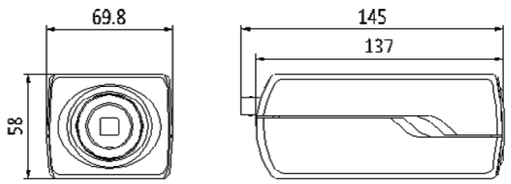
Based on centralized video management platform iVMS-5200P, Hikvision Smart Applications include Retail, Parking Management, Banking, Transport, Entrance Control, to help not only on Security but also on business owners' productivity.

# DS-2CD6026FHWD-(A)

## 2 MP Ultra Low-light Box Network Camera

DARKFIGHTER

### Dimensions




2.0 Megapixel | HD | WDR | Low Light | 3D DNR | ROI | smart 60FPS

## Key Features

- 1/2" progressive scan CMOS
- Full HD1080p video, up to 60fps
- Ultra Low-light
- 120dB WDR
- 3D DNR
- ROI codec
- Audio/Alarm IO
- DarkEye SLA Lens 07~33mm
- Full Smart Feature-set
- (-A) Auto back focus optional

## Order Models

DS-2CD6026FHWD

DS-2CD6026FHWD-A

Lens included Model:

HV0733D-6MP DARKEYE

- Up to 6MP resolution
- Focal length: 7~33mm
- Aperture: F0.95-C
- Format: 1/1.8"

HV1140D(P)-8MPIR

- Focal range 11-40mm
- Aperture F1.5-C
- IR correction
- Up to 8MP resolution
- Format 9mm(1/1.8")
- D: DC Iris / P: P-Iris

HV3816D(P)-8MPIR

- Focal range 3.8-16mm
- Aperture F1.5-∞
- IR correction
- Up to 8MP resolution
- Format 9mm(1/1.8")
- D: DC Iris / P: P-Iris

| DS-2CD6026FHWD-(A) | |
|---|---|
| **Camera** | |
| Image sensor | 1/2" Progressive Scan CMOS |
| Min. illumination | Color: 0.001 Lux @ (F1.2, AGC ON); B/W: 0.0001 Lux @ (F1.2, AGC ON) |
| Shutter time | 1/1 s to 1/100,000 s |
| Slow Shutter | Support |
| Lens mount | C/CS mount |
| Auto-iris | DC drive |
| Day & night | IR cut filter with auto switch |
| Digital noise reduction | 3D DNR |
| Wide dynamic range | 120dB |
| Focus | ABF(-A model) |
| **Compression standard** | |
| Video compression | H.264/MPEG4/MJPEG |
| H.264 Type | Baseline Profile / Main Profile / High Profile |
| Video Bit Rate | 32 Kbps – 16 Mbps |
| Audio Compression | G.711/G.722.1/G.726/MP2L2 |
| Audio Bit Rate | 64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726) / 32-128Kbps(MP2L2) |
| **Image** | |
| Max. Resolution | 1920 × 1080 |
| Frame rate | WDR OFF:<br>50Hz: 50fps (1920 × 1080), 50fps (1280 × 960), 50fps (1280 × 720)<br>60Hz: 60fps (1920 × 1080), 60fps (1280 × 960), 60fps (1280 × 720)<br>WDR ON:<br>50Hz: 25fps (1920 × 1080), 25fps (1280 × 960), 25fps (1280 × 720)<br>60Hz: 30fps (1920 × 1080), 30fps (1280 × 960), 30fps (1280 × 720) |
| Third Stream | Independent with Main Stream and Sub Stream,<br>up to 50Hz: 25fps (1920 × 1080); 60Hz: 30fps (1920 × 1080) |
| BLC | Support, zone optional |
| Defog | Support |
| EIS | Support |
| Image Setting | Saturation, Brightness, Contrast adjustable by client software or web browser |
| Day/Night Switch | Auto/Schedule/Triggered by Alarm In |
| ROI | Support |
| Picture Overlay | LOGO picture can be overlaid on video with 128x128 24bit bmp format |
| **Network** | |
| Network storage | NAS |
| Protocols | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour |
| Security | User Authentication, Watermark, IP address filtering, Anonymous access |
| Standard | ONVIF, PSIA, CGI, ISAPI |
| **Interface** | |
| Audio Input | 1-ch 3.5 mm audio interface, Mic in/Line in. 1 built-in Microphone |
| Audio Output | 1-ch 3.5 mm audio interface |
| Communication Interface | 1 RJ45 10M/100M Ethernet port, 1 RS-485 interface and 1 RS-232 interface |
| Alarm Input / Output | 1 / 1 |
| Video Output | 1Vp-p composite output (75 Ω/BNC) |
| On-board storage | Built-in Micro SD/SDXC slot, up to 64 GB |
| Reset Button | Yes |
| **General** | |
| Operating conditions | -30 °C – 60 °C (-22 °F – 140 °F), Humidity 95% or less (non-condensing) |
| Power supply | 24 V AC ± 10%, 12 V DC ± 10%, PoE (802.3af ) |
| Power consumption | Max. 6 W (Max. 9W with IR cut filter on) |
| Dimensions | 69.8×58×145 mm (2.68"× 2.56"× 5.70") |
| Weight | 830 g (1.83 lbs) |

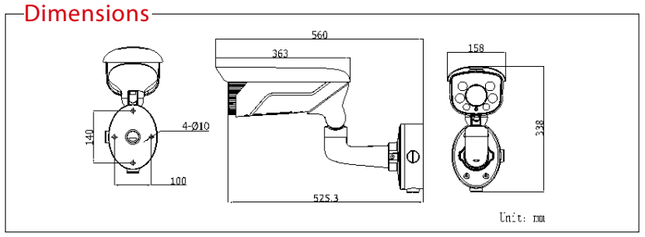
# DS-2CD4626FWD-IZ(H)(S)

## 2MP Vandal-proof IR Array Bullet Network Camera

smart IPC

DARKFIGHTER

### Dimensions




2.0 Megapixel | HD | WDR | Low Light | 3D DNR | ROI | smart 60FPS | IR

## Key Features

- 2MP high resolution
- Full HD1080p video, up to 60fps
- Ultra-low light
- Motorized VF lens with Smart Focus
- 120dB WDR
- Up to 70m IR range
- IP66
- Vandal-proof
- Full Smart Feature-set
- Audio/Alarm IO (-S)
- Built-in heater (-H)

## Order Models

DS-2CD4626FWD-IZ

DS-2CD4626FWD-IZS

DS-2CD4626FWD-IZH

DS-2CD4626FWD-IZHS

| DS-2CD4626FWD-IZ(H)(S) | |
|---|---|
| **Camera** | |
| Image sensor | 1/2.8" Progressive Scan CMOS |
| Min. illumination | 0.002 Lux @(F1.2,AGC ON), 0 Lux with IR<br>0.0027Lux @(F1.4,AGC ON), 0 Lux with IR |
| Shutter time | 1 s to 1/100,000 s |
| Lens | 2.8-12mm @ F1.4, 92°~32° |
| Lens mount | AF automatic focusing and motorized zoom lens |
| Auto-iris | DC drive |
| Day & night | IR cut filter with auto switch |
| Digital noise reduction | 3D DNR |
| Wide dynamic range | 120dB |
| **Compression standard** | |
| Video compression | H.264/MPEG4/MJPEG |
| H.264 Type | Baseline Profile / Main Profile / High Profile |
| Video Bit Rate | 32 Kbps – 16 Mbps |
| Audio Compression | G.711/G.722.1/G.726/MP2L2 |
| Audio Bit Rate | 64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726) / 32-128Kbps(MP2L2) |
| **Image** | |
| Max. Resolution | 1920 × 1080 |
| Frame rate | 50Hz: 50fps(1920 × 1080) 50fps (1280 × 960), 50fps (1280 × 720)<br>60Hz: 60fps(1920 × 1080) 60fps (1280 × 960), 60fps (1280 × 720) |
| Third Stream | Independent with Main Stream and Sub Stream, up to<br>50Hz: 25fps(1920 × 1080) ; 60Hz: 30fps (1920 × 1080) |
| BLC | Support, zone optional |
| Defog | Support |
| EIS | Support |
| Day/Night Switch | Auto/Schedule/Triggered by Alarm In |
| ROI | Support |
| Picture Overlay | 24bit BMP format overlay, zone optional |
| **Network** | |
| Network storage | Micro SD/SDHC/SDXC card with ANR (up to 64G), NAS (Support NFS,SMB/CIFS) |
| Alarm Trigger | Line crossing Detection, Intrusion detection, scene change detection, audio exception 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 |
| Security | One-key recovery, flash-prevention, three streams, heartbeat, mirror, password protection, video mask, Watermark, IP address filtering, Anonymous access |
| Standard | ONVIF, PSIA, CGI, ISAPI |
| Communication Interface | 1 RJ45 10M/100M Ethernet interface |
| **General** | |
| Protection Level | IP66 |
| Impact Protection | IEC60068-275Eh, 20J; EN50102, up to IK10 |
| Operating conditions | -30 °C – 60 °C (-22 °F – 140 °F), Humidity 95% or less (non-condensing)<br>-H: -40 °C – 60 °C |
| Power supply | 24 V AC ± 10%, PoE (802.3at) |
| IR Distance | Up to 70m |
| Power consumption | 24W MAX |
| Dimensions | 158×338×560mm |
| Weight | 6200g |

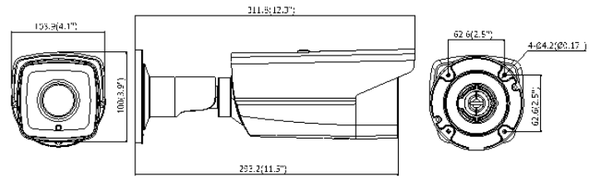
* "-S" series support 1-ch audio in/out interface, 1-ch alarm in/out interface and 1-ch RS-485 interface

# DS-2CD4A26FWD-IZ(H)(S)

## 2MP IR Array Bullet Network Camera

smart IPC DARKFIGHTER

### Dimensions




2.0 Megapixel | HD | WDR | Low Light | 3D DNR | ROI | smart 60FPS | IR

### Key Features

- 2MP high resolution
- Full HD1080p video, up to 60fps
- Ultra-low light
- Motorized VF lens with Smart Focus
- 120dB WDR
- Up to 50m IR range
- IP67
- Full Smart Feature-set
- Audio/Alarm IO (-S)
- Built-in heater (-H)

### Order Models

DS-2CD4A26FWD-IZ
DS-2CD4A26FWD-IZS
DS-2CD4A26FWD-IZH
DS-2CD4A26FWD-IZHS

| DS-2CD4A26FWD-IZ(H)(S) | |
|---|---|
| **Camera** | |
| Image sensor | 1/1.8" Progressive Scan CMOS |
| Min. illumination | 0.002 Lux @(F1.2,AGC ON), 0 Lux with IR<br>0.0027Lux @(F1.4,AGC ON), 0 Lux with IR |
| Shutter time | 1 s to 1/100,000 s |
| Lens | 2.8-12mm @ F1.4, 92°~32° |
| Lens mount | AF automatic focusing and motorized zoom lens |
| Auto-iris | DC drive |
| Day & night | IR cut filter with auto switch |
| Digital noise reduction | 3D DNR |
| Wide dynamic range | 120dB |
| **Compression standard** | |
| Video compression | H.264 / MJPEG / MPEG 4 |
| H.264 Type | Baseline Profile / Main Profile / High Profile |
| Video Bit Rate | 32 Kbps – 16 Mbps |
| Audio Compression | G.711/G.722.1/G.726/MP2L2 |
| Audio Bit Rate | 64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726) / 32-128Kbps(MP2L2) |
| **Image** | |
| Max. Resolution | 1920 × 1080 |
| Frame rate | 50Hz: 50fps (1920 × 1080)/(1280 × 960)/(1280 × 720)<br>60Hz: 60fps (1920 × 1080)/(1280 × 960)/(1280 × 720) |
| Third Stream | Independent with Main Stream and Sub Stream, up to<br>50Hz: 25fps(1920 × 1080) ; 60Hz: 30fps (1920 × 1080) |
| BLC | Support, zone optional |
| Defog | Support |
| EIS | Support |
| Day/Night Switch | Auto/Schedule/Triggered by Alarm In |
| ROI | Support |
| Picture Overlay | 128x128 24bit BMP format overlay, zone optional |
| **Network** | |
| Network storage | Micro SD/SDHC/SDXC card with ANR (up to 64G), NAS (Support NFS,SMB/CIFS) |
| Alarm Trigger | Line crossing Detection, Intrusion detection, scene change detection, audio exception 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 |
| Security | One-key recovery, flash-prevention, three streams, heartbeat, mirror, password protection, video mask, Watermark, IP address filtering, Anonymous access |
| Standard | ONVIF, PSIA, CGI, ISAPI |
| **General** | |
| Protection Level | IP67 |
| Operating conditions | -30 °C – 60 °C (-22 °F – 140 °F), Humidity 95% or less (non-condensing)<br>-H: -40 °C – 60 °C |
| Power supply | 12 V DC ± 10%, PoE (802.3af) |
| IR Distance | Up to 50m |
| Power Consumption | 12W MAX |
| Dimensions | 100×103.9×311.8 mm |
| Weight | 2000g |

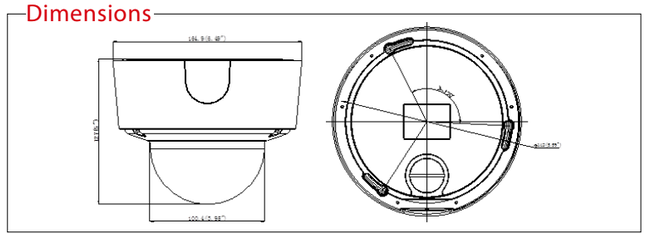
* "-S" series support 1-ch audio in/out interface, 1-ch alarm in/out interface and 1-ch RS-485 interface

# DS-2CD4526FWD-IZ(H)

## 2MP Outdoor Dome Network Camera

smart IPC DARKFIGHTER

### Dimensions



2.0 Megapixel | HD | WDR | Low Light | 3D DNR | ROI | smart 60FPS | IR

### Key Features

- 2MP high resolution
- Full HD1080p video, up to 60fps
- Ultra-low light
- Motorized VF lens with Smart Focus
- 120dB WDR
- Up to 40m IR range
- IP66
- Vandal-proof
- Full Smart Feature-set
- Audio/Alarm IO
- Built-in heater (-H)

### Order Models

DS-2CD4526FWD-IZ
DS-2CD4526FWD-IZH

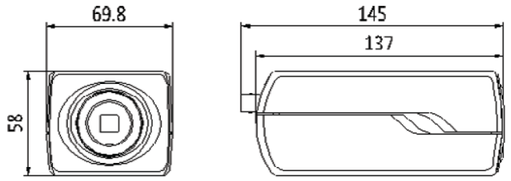
| DS-2CD4526FWD-I(Z)(H) | |
|---|---|
| **Camera** | |
| Image sensor | 1/1.8" Progressive Scan CMOS |
| Min. illumination | 0.002 Lux @(F1.2,AGC ON), 0 Lux with IR<br>0.0027Lux @(F1.4,AGC ON), 0 Lux with IR |
| Shutter time | 1 s to 1/100,000 s |
| Lens | 2.8-12mm @ F1.4, 92°~ 32° |
| Lens mount | Φ14 |
| Angle Adjustment | Pan:0° - 355°, Tilt: 0° - 75°, Rotation: 0° - 355° |
| Auto-iris | DC drive |
| Day & night | IR cut filter with auto switch |
| Digital noise reduction | 3D DNR |
| Wide dynamic range | 120dB |
| **Compression standard** | |
| Video compression | H.264 / MJPEG / MPEG 4 |
| H.264 Type | Baseline Profile / Main Profile / High Profile |
| Video Bit Rate | 32 Kbps – 16 Mbps |
| Audio Compression | G.711/G.722.1/G.726/MP2L2 |
| Audio Bit Rate | 64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726) / 32-128Kbps(MP2L2) |
| **Image** | |
| Max. Resolution | 1920 × 1080 |
| Frame rate | 50Hz: 50fps(1920 × 1080) 50fps (1280 × 960), 50fps (1280 × 720)<br>60Hz: 60fps(1920 × 1080) 60fps (1280 × 960), 60fps (1280 × 720) |
| Third Stream | Independent with Main Stream and Sub Stream, up to<br>50Hz: 25fps(1920 × 1080) ; 60Hz: 30fps (1920 × 1080) |
| BLC | Support, zone optional |
| Defog | Support |
| Day/Night Switch | Auto/Schedule/Triggered by Alarm In |
| ROI | Support |
| Picture Overlay | 24bit BMP format overlay, zone optional |
| **Network** | |
| Network storage | Micro SD/SDHC/SDXC card with ANR (up to 64G), NAS (Support NFS,SMB/CIFS) |
| Alarm Trigger | Line crossing detection, Intrusion detection, scene change detection, audio exception 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 |
| Security | One-key recovery, flash-prevention, three streams, heartbeat, mirror, password protection, video mask, Watermark, IP address filtering, Anonymous access |
| Standard | ONVIF, PSIA, CGI, ISAPI |
| Communication Interface | 1 RJ45 10M/100M Ethernet interface |
| **Interface** | |
| Audio Input | 1-ch 3.5 mm audio interface, Mic in/Line in |
| Audio Output | 1-ch 3.5 mm audio interface |
| Communication Interface | 1 RJ45 10M/100M Ethernet port, 1 RS-485 interface |
| Alarm Input / Outpit | 1 / 1 |
| Video Output | 1Vp-p composite output (75 Ω/BNC) |
| On-board storage | Built-in Micro SD/SDHC/SDXC slot, up to 64 GB |
| Reset Button | Yes |
| **General** | |
| Protection Level | IP66 |
| Operating conditions | -30 °C – 60 °C (-22 °F – 140 °F), Humidity 95% or less (non-condensing)<br>-H: -40 °C – 60 °C |
| Power supply | DC12V / AC 24 V± 10%, PoE (802.3af)<br>-H: DC12V/AC24V/PoE(802.3at) |
| IR Distance | Up to 40m |
| Power Consumption | Max: 12W<br>-H: 17W |
| Dimensions | Φ164.9 × 127 mm(Φ6.49"×5") |
| Weight | 2100g (4.62 lbs) |

# DS-2CD4026FWD (-A)(P)

## 2 MP Ultra Low-light Box Network Camera

smart IPC DARKFIGHTER

Dimensions




2.0 Megapixel | HD | WDR | Low Light | 3D DNR | ROI | smart 60FPS

### Key Features

- 1/2" progressive scan CMOS
- Full HD1080p video, up to 60fps
- Ultra Low-light
- 120dB WDR
- 3D DNR
- ROI codec
- Audio/Alarm IO
- DarkEye SLA Lens 07~33mm
- Full Smart Feature-set
- (-A) Auto back focus optional

### Order Models

DS-2CD4026FHWD

DS-2CD4026FHWD-A

DS-2CD4026FHWD-AP

Lens included Model:

HV0733D-6MP DARKEYE

- Up to 6MP resolution
- Focal length: 7~33mm
- Aperture: F0.95-C
- Format: 1/1.8"

HV1140D(P)-8MPIR

- Focal range 11-40mm
- Aperture F1.5-C
- IR correction
- Up to 8MP resolution
- Format 9mm(1/1.8")
- D: DC Iris / P: P-Iris

HV3816D(P)-8MPIR

- Focal range 3.8-16mm
- Aperture F1.5-∞
- IR correction
- Up to 8MP resolution
- Format 9mm(1/1.8")
- D: DC Iris / P: P-Iris

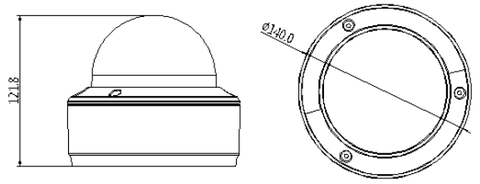
| DS-2CD4026FWD (-A)(P) | |
|---|---|
| **Camera** | |
| Image sensor | 1/2" Progressive Scan CMOS |
| Min. illumination | Color: 0.001 Lux @ (F1.2, AGC ON); B/W: 0.0001 Lux @ (F1.2, AGC ON) |
| Shutter time | 1/1 s to 1/100,000 s |
| Slow Shutter | Support |
| Lens mount | C/CS mount |
| Auto-iris | DC drive |
| Day & night | IR cut filter with auto switch |
| Digital noise reduction | 3D DNR |
| Wide dynamic range | 120dB |
| Focus | ABF(-A model) |
| **Compression standard** | |
| Video compression | H.264/MPEG4/MJPEG |
| H.264 Type | Baseline Profile / Main Profile / High Profile |
| Video Bit Rate | 32 Kbps – 16 Mbps |
| Audio Compression | G.711/G.726/MP2L2 |
| Audio Bit Rate | 64Kbps(G.711) / 16Kbps(G.726)/ 32-128Kbps(MP2L2) |
| **Image** | |
| Max. Resolution | 1920 × 1080 |
| Frame rate | WDR OFF:<br>50Hz: 50fps (1920 × 1080), 50fps (1280 × 960), 50fps (1280 × 720)<br>60Hz: 60fps (1920 × 1080), 60fps (1280 × 960), 60fps (1280 × 720)<br>WDR ON:<br>50Hz: 25fps (1920 × 1080), 25fps (1280 × 960), 25fps (1280 × 720)<br>60Hz: 30fps (1920 × 1080), 30fps (1280 × 960), 30fps (1280 × 720) |
| Third Stream | Independent with Main Stream and Sub Stream,<br>up to 50Hz: 25fps (1920 × 1080); 60Hz: 30fps (1920 × 1080) |
| BLC | Support, zone optional |
| Defog | Support |
| EIS | Support |
| Image Setting | Saturation, Brightness, Contrast adjustable by client software or web browser |
| Day/Night Switch | Auto/Schedule/Triggered by Alarm In |
| ROI | Support |
| Picture Overlay | LOGO picture can be overlaid on video with 128x128 24bit bmp format |
| **Network** | |
| Network storage | NAS |
| Protocols | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour |
| Security | User Authentication, Watermark, IP address filtering, Anonymous access |
| Standard | ONVIF, PSIA, CGI, ISAPI |
| **Interface** | |
| Audio Input | 1-ch 3.5 mm audio interface, Mic in/Line in. 1 built-in Microphone |
| Audio Output | 1-ch 3.5 mm audio interface |
| Communication Interface | 1 RJ45 10M/100M Ethernet port, 1 RS-485 interface and 1 RS-232 interface |
| Alarm Input / Output | 1 / 1 |
| Video Output | 1Vp-p composite output (75 Ω/BNC) |
| On-board storage | Built-in Micro SD/SDXC slot, up to 64 GB |
| Reset Button | Yes |
| **General** | |
| Operating conditions | -30 °C – 60 °C (-22 °F – 140 °F), Humidity 95% or less (non-condensing) |
| Power supply | 24 V AC ± 10%, 12 V DC ± 10%, PoE (802.3af ) |
| Power consumption | Max. 6 W (Max. 9W with IR cut filter on) |
| Dimensions | 69.8×58×145 mm (2.68" × 2.56" × 5.70") |
| Weight | 830 g (1.83 lbs) |

# DS-2CD4126FWD-IZ

## 2MP Outdoor Dome Network Camera

smart IPC DARKFIGHTER

Dimensions




2.0 Megapixel | HD | WDR | Low Light | 3D DNR | ROI | smart 60FPS | IR

### Key Features

- 2MP high resolution
- Full HD1080p video, up to 60fps
- Ultra-low light
- Motorized VF lens with Smart Focus
- 120dB WDR
- Up to 30m IR range
- Vandal-proof
- Audio/Alarm IO
- Full Smart Feature-set

### Order Models

DS-2CD4126FWD-IZ

| DS-2CD4126FWD-(I)(Z) | |
|---|---|
| **Camera** | |
| Image sensor | 1/2.8" Progressive Scan CMOS |
| Min. illumination | 0.002 Lux @(F1.2,AGC ON), 0 Lux with IR<br>0.0027Lux @(F1.4,AGC ON), 0 Lux with IR |
| Shutter time | 1 s to 1/100,000 s |
| Slow Shutter | Support |
| Lens | 2.8-12mm @ F1.4, angle of view: 92°~ 32° |
| Lens mount | Φ14 |
| Angle Adjustment | Pan:0° - 355°, Tilt: 0° - 75°, Rotation: 0° - 355° |
| Auto-iris | DC drive |
| Day & night | Electronic (-I: IR cut filter with auto switch) |
| Digital noise reduction | 3D DNR |
| Wide dynamic range | 120dB |
| **Compression standard** | |
| Video compression | H.264 / MJPEG / MPEG 4 |
| H.264 Type | Baseline Profile / Main Profile / High Profile |
| Video Bit Rate | 32 Kbps – 16 Mbps |
| Audio Compression | G.711/G.722.1/G.726/MP2L2 |
| Audio Bit Rate | 64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726) / 32-128Kbps(MP2L2) |
| **Image** | |
| Max. Resolution | 1920 × 1080 |
| Frame rate | 50Hz: 50fps(1920 × 1080, 1280 × 960, 1280 × 720)<br>60Hz: 60fps (1920 × 1080, 1280 × 960, 1280 × 720) |
| Third Stream | Independent with Main Stream and Sub Stream, up to<br>50Hz: 25fps(1920 × 1080) ; 60Hz: 30fps (1920 × 1080) |
| BLC | Support |
| HLC | Support |
| Smart Defog | Support |
| EIS | Support |
| Image Setting | Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser |
| Day/Night Switch | Auto/Schedule/Triggered by Alarm In |
| ROI | Support |
| Picture Overlay | LOGO picture can be overlaid on video with 128x128 24bit bmp format |
| **Network** | |
| Network storage | NAS (Support NFS,SMB/CIFS) |
| Alarm Trigger | Intrusion detection, Defocus detection, Motion detection, Face 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 |
| Security | User Authentication, Watermark, IP address filtering, Anonymous access |
| Standard | ONVIF, PSIA, CGI, ISAPI |
| **Interface** | |
| Audio Input | 1-ch 3.5 mm audio interface, Mic in/Line in |
| Audio Output | 1-ch 3.5 mm audio interface |
| Communication Interface | 1 RJ45 10M/100M Ethernet port, 1 RS-485 interface |
| Alarm Input / Output | 1 / 1 |
| Video Output | 1Vp-p composite output (75 Ω/BNC) |
| On-board storage | Built-in Micro SD/SDXC slot, up to 64 GB |
| Reset Button | Yes |
| **General** | |
| Operating conditions | -30 °C – 60 °C (-22 °F – 140 °F), Humidity 95% or less (non-condensing) |
| Power supply | 12 V DC ± 10%, PoE (802.3af) |
| Power Consumption | 13.5W MAX |
| IR Range | Up to 30m |
| Impact Protection | IEC60068-275Eh, 50J; EN50102, up to IK10 |
| Dimensions | Φ 140 × 121.8 mm (Φ 5.51" × 4.80") |
| Weight | 1400 g (3.09 lbs) |

* "-Z" is equipped with Motorized VF lens

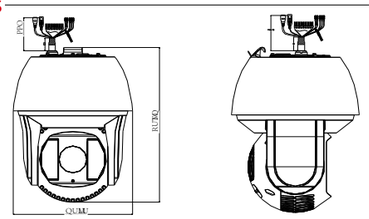
# DS-2DF8223I-AEL

## 2MP 23X Network IR PTZ Dome Camera

smart PTZ

DARKFIGHTER

Dimensions



## Key Features

- 1/1.9" HD CMOS sensor
- 1920*1080 Full HD, 23X Optical Zoom
- Ultra-low illumination
- 120dB True WDR
- Smart Tracking
- Smart Detection
- EIS (Electronic Image Stabilization)
- Defog
- 200m IR distance
- Hi-PoE / 24VAC power supply
- Vandal proof (IK10)

## Order Models

DS-2DF8223I-AEL

24VAC, low temperature, outdoor

## Accessories

Long-arm Wall Mount Bracket DS-1602ZJ

| DS-2DF8223I-AEL | |
|---|---|
| **Camera Module** | |
| Image sensor | 1/1.9" Progressive Scan CMOS |
| Min. illumination | F1.5, 1/1 sec, 50 IRE, AGC On: Color: 0.002 lux, B/W : 0.0002 lux, 0 lux with IR<br>F1.5, 1/30 sec, 50 IRE, AGC On: Color:0.02 lux, B/W : 0.002 lux, 0 lux with IR |
| Max. Image Resolution | 1920×1080 |
| Focal Length | 5.9-135.7mm, 23x |
| Digital Zoom | 16X |
| Zoom Speed | Approx.4.4s(Optical Wide-Tele) |
| Angle of View | 59.8-3.0 degree (Wide-Tele) |
| Min. Working Distance | 10-1500mm(Wide-Tele) |
| Aperture Range | F1.5~F3.4 |
| Focus Mode | Auto / Semiautomatic / Manual |
| WDR | 120dB |
| S / N Ratio | ≥ 55dB |
| Shutter Time | 50Hz: 1~1/30,000s; 60Hz: 1~1/30,000s |
| AGC | Auto / Manual |
| White Balance | Auto / Manual /ATW/Indoor/Outdoor/ Daylight lamp/Sodium lamp |
| Day & Night | IR Cut Filter |
| Privacy Mask | 24 privacy masks programmable; optional multiple colors and mosaics |
| Enhancement | 3D DNR, EIS, Defog, HLC/BLC, SVC |
| **Pan and Tilt** | |
| Range | Pan:360° endless; Tilt: -20°~90°(Auto Flip) |
| Speed | Pan Manual Speed: 0.1°~160°/s, Pan Preset Speed: 240°/s<br>Tilt Manual Speed: 0.1°~120°/s, Tilt Preset Speed: 200°/s |
| Number of Preset | 300 |
| Patrol | 8 patrols, up to 32 presets per patrol |
| Pattern | 4 patterns, with the recording time not less than 10 minutes per pattern |
| Park Action | Preset / Patrol / Pattern / Auto scan / Tilt scan / Random scan / Frame scan / Panorama scan |
| Scheduled Task | Preset / Patrol / Pattern / Auto scan / Tilt scan / Random scan / Frame scan / Panorama scan/Dome reboot/Dome adjust/Aux output |
| **Smart features** | |
| Smart tracking | Manual/ Panorama/ Intrusion trigger/ Line crossing trigger/ Region entrance trigger/ Region exiting trigger.<br>Smart tracking when patrol between multiple scenarios. |
| Smart detection | Face detection, intrusion detection, line crossing detection, audio exception detection, region entrance, region exiting |
| ROI encoding | Support 24 areas with adjustable levels |
| **Infrared** | |
| IR Distance | Up to 200m |
| IR Intensity | Automatically adjusted, depending on the zoom ratio |
| **Input/ Output** | |
| Monitor Output | 1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC |
| Audio Input | 1 Mic in/Line in interface, line input: 2-2.4V[p-p]; output impedance: 1KΩ, ±10% |
| Audio Output | 1 Audio output interface, line level, impedance: 600Ω |

| | |
|---|---|
| **Alarm** | |
| Alarm I/O | 7/2 |
| Alarm Trigger | Face detection, Intrusion detection, Line crossing detection, Region entrance, Region exiting, Audio exception detection, Motion detection, Audio Exception Detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception |
| Alarm Action | Preset, Patrol, Pattern, Micro SD/SDHC card recording, Relay output, Notification on Client |
| **Network** | |
| Ethernet | 10Base-T / 100Base-TX, RJ45 connector |
| Main Stream | 50Hz: 25fps(1920×1080, 1280×960, 1280×720); 60Hz: 30fps(1920×1080, 1280×960, 1280×720) |
| Sub Stream | 50Hz: 25fps(704×576, 352×288, 176×144); 60Hz: 30fps(704×480, 352×240, 176×120) |
| Third Stream | 50Hz: 25fps(1920×1080, 1280×960, 1280×720, 704×576, 352×288, 176×144)<br>60Hz: 30fps(1920×1080, 1280×960, 1280×720, 704×480, 352×240, 176×120) |
| Image Compression | H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile |
| Audio Compression | G.711ulaw/G.711alaw/G.726/MP2L2/G.722 |
| Protocols | IPv4/IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE |
| Simultaneous Live View | Up to 20 users |
| Mini SD Memory Card | Support up to 64GB Micro SD/SDHC/SDXC card. Support Edge recording |
| User/Host Level | Up to 32 users,3 Levels: Administrator, Operator and User |
| Security Measures | User authentication (ID and PW); Host authentication (MAC address); IP address filtering |
| **System Integration** | |
| Application programming | Open-ended API, support ONVIF, PSIA and CGI, Genetec |
| Web Browser | IE 7+, Chrome 18 +, Firefox 5.0 +, Safari 5.02 +, support multi-language |
| RS-485 Protocols | HIKVISION, Pelco-P, Pelco-D, self-adaptive |
| Power | Hi-PoE&24 VAC, Max.60W |
| Working Temperature | -40℃ ~ 65℃ (-40℉ ~ 149℉) |
| Humidity | 90% or less |
| Protection Level | IP66, IK10, TVS 6,000V lightning protection, surge protection and voltage transient protection |
| Certification | FCC, CE, UL, RoHS, IEC/EN 61000, IEC/EN 55022, IEC/EN 55024, IEC /EN60950-1 |
| Dimensions | Φ266.6(mm)×365.2(mm) |
| Weight (approx.) | 8kg (approx.) |
| Mount Option | Long-arm wall mount: DS-1602ZJ; Corner mount: DS-1602ZJ-corner;<br>Pole Mount: DS-1602ZJ-pole; Power box mount:DS-1602ZJ-box |

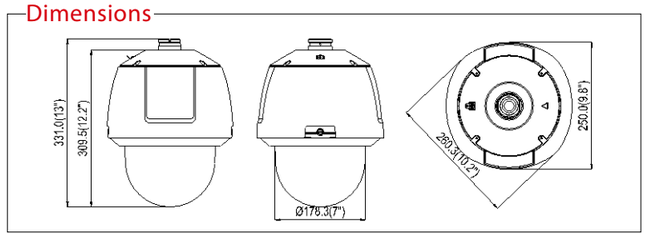
# DS-2DF6223-AEL

## 2MP 23X Network PTZ Dome Camera

smart PTZ

DARKFIGHTER

Dimensions



## Key Features

- 1/1.9" HD CMOS sensor
- 1920*1080 Full HD, 23X Optical Zoom
- Ultra-low illumination
- 120dB True WDR
- Smart Tracking
- Smart Detection
- EIS (Electronic Image Stabilization)
- Defog
- Hi-PoE / 24VAC power supply
- Vandal proof(IK10)

## Order Models

DS-2DF6223-AEL

24VAC, low temperature, outdoor

## Accessories

Long-arm Wall Mount Bracket DS-1602ZJ

| DS-2DF6223-AEL | |
|---|---|
| **Camera** | |
| Image sensor | 1/1.9" Progressive Scan CMOS |
| Min. illumination | F1.5, 1/1 sec, 50 IRE, AGC On: Color: 0.002 lux, B/W: 0.0002 lux<br>F1.5,1/30 sec, 50 IRE, AGC On: Color: 0.02 lux, B/W : 0.002 lux |
| Max. Image Resolution | 1920×1080 |
| Focal Length | 5.9-135.7mm, 23x |
| Digital Zoom | 16X |
| Zoom Speed | Approx.4.4s(Optical Wide-Tele) |
| Angle of View | 59.8-3.0 degree (Wide-Tele) |
| Min. Working Distance | 10-1500mm(Wide-Tele) |
| Aperture Range | F1.5~F3.4 |
| Focus Mode | Auto / Semiautomatic / Manual |
| WDR | 120dB |
| S / N Ratio | ≥ 55dB |
| Shutter Time | 50Hz: 1~1/30,000s; 60Hz: 1~1/30,000s |
| AGC | Auto / Manual |
| White Balance | Auto / Manual /ATW/Indoor/Outdoor/ Daylight lamp/Sodium lamp |
| Day & Night | IR Cut Filter |
| Privacy Mask | 24 privacy masks programmable; optional multiple colors and mosaics |
| Enhancement | 3D DNR, EIS, Defog, HLC/BLC, SVC |
| **Pan and Tilt** | |
| Range | Pan:360° endless; Tilt: -20°~90°(Auto Flip) |
| Speed | Pan Manual Speed: 0.1°~300°/s, Pan Preset Speed: 540°/s<br>Tilt Manual Speed: 0.1°~240°/s, Tilt Preset Speed: 400°/s |
| Number of Preset | 300 |
| Patrol | 8 patrols, up to 32 presets per patrol |
| Pattern | 4 patterns, with the recording time not less than 10 minutes per pattern |
| Park Action | Preset / Patrol / Pattern / Auto scan / Tilt scan / Random scan / Frame scan / Panorama scan |
| Scheduled Task | Preset / Patrol / Pattern / Auto scan / Tilt scan / Random scan / Frame scan / Panorama scan/Dome reboot/Dome adjust/Aux output |
| **Smart features** | |
| Smart tracking | Manual/ Panorama/ Intrusion trigger/ Line crossing trigger/ Region entrance trigger/ Region exiting trigger |
| Smart detection | Face detection, intrusion detection, line crossing detection, audio exception detection, region entrance, region exiting |
| ROI encoding | Support 24 areas with adjustable levels |
| **Input/ Output** | |
| Monitor Output | 1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC |
| Audio Input | 1 Mic in/Line in interface, line input: 2-2.4V[p-p]; output impedance: 1KΩ, ±10% |
| Audio Output | 1 Audio output interface, line level, impedance: 600Ω |

| | |
|---|---|
| **Alarm** | |
| Alarm I/O | 7/2 |
| Alarm Trigger | Face detection, Intrusion detection, Line crossing detection, Region entrance, Region exiting, Audio exception detection, Motion detection, Audio Exception Detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception |
| Alarm Action | Preset, Patrol, Pattern, Micro SD/SDHC card recording, Relay output, Notification on Client |
| **Network** | |
| Ethernet | 10Base-T / 100Base-TX, RJ45 connector |
| Main Stream | 50Hz: 25fps(1920×1080, 1280×960, 1280×720); 60Hz: 30fps(1920×1080, 1280×960, 1280×720) |
| Sub Stream | 50Hz: 25fps(704×576, 352×288, 176×144); 60Hz: 30fps(704×480, 352×240, 176×120) |
| Third Stream | 50Hz: 25fps(1920×1080, 1280×960, 1280×720, 704×576, 352×288, 176×144)<br>60Hz: 30fps(1920×1080, 1280×960, 1280×720, 704×480, 352×240, 176×120) |
| Image Compression | H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile |
| Audio Compression | G.711ulaw/G.711alaw/G.726/MP2L2/G.722 |
| Protocols | IPv4/IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE |
| Simultaneous Live View | Up to 20 users |
| Mini SD Memory Card | Support up to 64GB Micro SD/SDHC/SDXC card. Support Edge recording |
| User/Host Level | Up to 32 users,3 Levels: Administrator, Operator and User |
| Security Measures | User authentication (ID and PW); Host authentication (MAC address); IP address filtering |
| **System Integration** | |
| Application programming | Open-ended API, support ONVIF, PSIA and CGI, Genetec |
| Web Browser | IE 7+, Chrome 18 +, Firefox 5.0 +, Safari 5.02 +, support multi-language |
| RS-485 Protocols | HIKVISION, Pelco-P, Pelco-D, self-adaptive |
| Power | Hi-PoE&24 VAC, Max.60W |
| Working Temperature | -40℃ ~ 65℃ (-40℉ ~ 149℉) |
| Humidity | 90% or less |
| Protection Level | IP66, IK10, TVS 4,000V lightning protection, surge protection and voltage transient protection |
| Certification | FCC, CE, UL, RoHS, IEC/EN 61000, IEC/EN 55022, IEC/EN 55024, IEC /EN60950-1 |
| Dimensions | Φ178.3(mm)×331.0(mm) (Φ7.02"×13.03") |
| Weight (approx.) | 8kg (approx.) |
| Mount Option | Long-arm wall mount: DS-1602ZJ; Corner mount: DS-1602ZJ-corner;<br>Pole Mount: DS-1602ZJ-pole; Power box mount:DS-1602ZJ-box |

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