

### DS-2DF9C435IHS-DLW(T2)

#### 4 MP 35× Network IR PTZ Camera





















Hikvision DS-2DF9C435IHS-DLW (T2) 4 MP 35  $\times$  Network IR PTZ Camera belongs to the DarkFighterX camera family. With the patented dual-sensor design, it is able to process color and brightness independently and outputs one FULL-COLOR image. This series of cameras can be widely used for wide ranges of high-definition, such as the river, forest, road, railway, airport, port, square, park, scenic spot, station and large venue, etc.

#### **Key Feature**

- Dual-sensor, 1/1.8" progressive scan CMOS
- Full-color image output
- Up to 2688 × 1512 resolution
- Min. illumination:

Color: 0.0005 Lux @ (F1.6, AGC ON) B/W: 0.0001 Lux @ (F1.6, AGC ON)

0 Lux with IR  $\,$ 

- 35 × optical zoom, 16 × digital zoom
- 140 dB WDR, 3D DNR, HLC, BLC, EIS, Optical Defog
- Support H.265+/H.265 video compression
- Support rapid focus
- Deep-learning-based target classification algorithm for auto-tracking 3.0 and perimeter protection
- Up to 500 m IR distance. Smart IR
- Rain-sensing auto wiper





### **DORI**

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view.

It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	2606.9 m (8552.8 ft)	1034.5 m (3394.0 ft)	521.4 m (1710.6 ft)	260.7 m (854.3 ft)

# Specification

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Camera	
Image Sensor	1/1.8" progressive scan CMOS, dual-sensor structure
Min. Illumination	Color: 0.0005 Lux @ (F1.6, AGC ON), B/W: 0.0001 Lux @ (F1.6, AGC ON), 0 Lux with IR
Shutter Speed	1/1 to 1/30,000 s
Slow Shutter	Yes
Day & Night	Controlled by dual-sensor
Zoom	35x optical, 16x digital
Max. Resolution	2688 × 1512
Lens	
Focus	Auto, semi-auto, manual, rapid focus
Focal Length	5.9 mm to 206.5 mm
Zoom Speed	Approx. 4.4 s
	Horizontal field of view: 58.9° to 2.2°(wide-tele)
FOV	Vertical field of view: 35.3° to 1.2°(wide-tele)
	Diagonal field of view: 65.9° to 2.5° (wide-tele)
Aperture	Max. F1.6
Illuminator	
Supplement Light Range	IR Distance: up to 500 m
Smart Supplement Light	Yes
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-25° to 90° (auto flip)
Pan Speed	Pan speed: configurable from 0.1° to 210°/s; preset speed: 280°/s
Tilt Speed	Tilt speed: configurable from 0.1° to 150°/s, preset speed 250°/s
Proportional Pan	Yes
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
Power-off Memory	Yes
Park Action	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan
3D Positioning	Yes
PTZ Status Display	Yes
Preset Freezing	Yes
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output



Main Stream         50Hz: 25fps (2688 × 1512, 1920 × 1080, 1280 × 960, 1280 × 720)           Sub-Stream         50Hz: 25fps (2688 × 1512, 1920 × 1080, 1280 × 396, 1280 × 720)           Third Stream         50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 248)           60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 248)           60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)           Main stream: 4.265/H.265/H.264/H.264           Video Compression         Amin stream: 4.265/H.264/MJPEG           Video Bit Rate         32 Kbps to 16384 Kbps           H.264 Type         Baseline profile, main profile, high profile           H.265 Type         Main profile           Region of Interest (ROI)         8 fixed regions for each stream           Audio Compression         6 711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM           Audio Sitt Rate         6 4 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps (MP2L2)           Region of Interest (ROI)         8 fixed regions for each stream           Audio Compression         G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM           Audio Sitt Rate         6 4 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps (MP2L2)           Protocols         RIP4/IPV6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPPP, SMPP, DND, DNDS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGAP, ICMP, PPPGE, Bonjour <th>Video</th> <th></th>	Video	
SOH12: 25fps (704 x 576, 640 x 480, 3152 x 280)   SOH12: 25fps (704 x 576, 640 x 480, 3152 x 280)   SOH12: 25fps (704 x 586, 640 x 480, 3152 x 280)   SOH12: 25fps (704 x 586, 640 x 480, 3152 x 280)   SOH12: 25fps (1920 x 1080, 1280 x 960, 1280 x 720, 704 x 576, 640 x 480, 3152 x 288)   SOH12: 25fps (1920 x 1080, 1280 x 960, 1280 x 720, 704 x 480, 640 x 480, 3152 x 280)   Main stream: H.265f/H.266f/MJPEG   Third stream: H.266f/H.266f/MJPEG   Third stream: H	Main Stroom	50Hz: 25fps (2688 × 1512, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream         60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)           Third Stream         50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)           Video Compression         Main stream: H.265-H.264/MJPEG           Video Edit Rate         32 Kbps to 15384 Kbps           H.264 Type         Baseline profile, main profile, high profile           H.265 Type         Main profile           Scalable Video Coding (SVC)         H.264 and H.265 encoding           Region of Interest (ROI)         8 fixed regions for each stream           Audio Compression         G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM           Audio Bit Rate         64 Kbps (G.711l)/16 Kbps (G.726, MP2L2, PCM           Audio Bit Rate         64 Kbps (G.711l)/16 Kbps (G.726, MP2L2, PCM           Audio Bit Rate         64 Kbps (G.711l)/16 Kbps (G.726, MP2L2, PCM           Audio Bit Rate         64 Kbps (G.711l)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps (MP2L2)           Network         IPV4/IPV6, HTTP, HTTP, B.802.1x, Qos, FTP, SMTP, UPNP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPP6E, Bonjour           API         ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK           Simultaneous Live View         Up to 32 users, 3 user levels: administrator, operator, and user           Authenticated usermame and password, MAC address binding, HTTPS encryption, 802.1X authenticated access,	Main Stream	60Hz: 30fps (2688 × 1512, 1920 × 1080, 1280 × 960, 1280 × 720)
SOHE: 30fps (704 x 480, 640 x 480, 352 x 240)	Sub Stroam	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288)
Main stream: H. 265+/H. 264H/H. 264	Sub-stream	60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)
Main stream: H.265+H.264-H.264   Video Compression	Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)
Video Ocmpression         Sub-stream: H.265/H.264/MJPEG           Video Bit Rate         32 Kbps to 16384 Kbps           H.264 Type         8aseline profile, main profile, high profile           H.265 Type         Main profile           Scalable Video Coding (SVC)         H.264 and H.265 encoding           Region of Interest (ROI)         8 fixed regions for each stream           Audio Compression         G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM           Audio Bit Rate         64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps (MP2L2)           Network         Very (Pv April 10, HTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, 8onjour           API         ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK           Simultaneous Live View         Up to 20 channels           User/Host         Up to 32 users, 3 user levels: administrator, operator, and user           Security         Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter           Web Browser         Ize 8 to 11, Chrome 57+, Firefox 52+, Safari 12+           Image         Image Enhancement           BLC, HLC, 3D DNR           Wide Dynamic Range (WDR)         140 dB WDR           Defog         Optical defog           Image Stabilization <t< td=""><td>mind Stream</td><td>60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)</td></t<>	mind Stream	60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Bit Rate     32 kbps to 16384 kbps       H.264 Type     Baseline profile, main profile, high profile       H.265 Type     Main profile       Scalable Video Coding (SVC)     H.264 and H.265 encoding       Region of Interest (ROI)     8 fixed regions for each stream       Audio Compression     6.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM       Audio Bit Rate     64 kbps (G.711)/16 kbps (G.722.1)/16 kbps (G.726)/32 kbps to 192 kbps (MP2L2)       Network       Protocols     IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour       API     ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK       Simultaneous Live View     Up to 20 channels       User/Host     Up to 32 users, 3 user levels: administrator, operator, and user       Web Browser     Ize to 11, Chrome 57+, Firefox 52+, Safari 12+       Image     Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter       Web Browser     Bt to 11, Chrome 57+, Firefox 52+, Safari 12+       Image     Enhancement       Bcy, Hight, suto, scheduled-switch       Image Enhancement     BlC, HLC, 3D DNR       Wide Dynamic Range (WDR)     140 dB WDR       Defog     Optical defog       Image Settings     Sei Gleuit-in gyroscope to improve EIS performance) <td></td> <td>Main stream: H.265+/H.265/H.264+/H.264</td>		Main stream: H.265+/H.265/H.264+/H.264
Video Bit Rate         32 Kbps to 16384 Kbps           H. 264 Type         Baseline profile, main profile, high profile           H. 265 Type         Main profile           Scalable Video Coding (SVC)         H. 264 and H. 265 encoding           Region of Interest (ROI)         8 fixed regions for each stream           Audio           Audio Bit Rate         6.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM           Audio Bit Rate         6.74 Kbps (G.721.1/16 Kbps (G.726.1/32 Kbps to 192 Kbps (MP2L2)           Network           IPV4/IPV6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPPP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPOE, Bonjour           API         ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK           Simultaneous Live View         Up to 32 users, 3 user levels: administrator, operator, and user           User/Host         Up to 32 users, 3 user levels: administrator, operator, and user           Web Browser         IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+           Web Browser         IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+           Image         Buny, Night, auto, scheduled-switch           Image Enhancement         BLC, HLC, 3D DNR           Wide Dynamic Range (WDR)         140 dB WDR           Defog         Optical defog           Image Stab	Video Compression	Sub-stream: H.265/H.264/MJPEG
H.264 Type Main profile, main profile, high profile H.265 Type Main profile Scalable Video Coding (SVC) H.264 and H.265 encoding Region of Interest (ROI) 8 fixed regions for each stream  Audio  Audio Compression G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM Audio Bit Rate 64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps (MP2L2)  Network  Protocols IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SMMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour API ONNIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK  Simultaneous Live View Up to 20 channels User/Host Up to 32 users, 3 user levels: administrator, operator, and user Authenticated username and password, MAC address binding, HTTPS encryption, 802.1x authenticated access, IP address filter Web Browser IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+  Image  Day/Night Switch Day, night, auto, scheduled-switch Image Enhancement BLC, HLC, 3D DNR  Wide Dynamic Range (WDR) 140 dB WDR  Defog Optical defog Image Stabilization EIS (Built-in gyroscope to improve EIS performance)  Regional Exposure Yes  Regional Focus Yes  Regional Focus Yes  Privacy Mask Up to 24 masks, polygon region, mosaic mask, mask color configurable SNR ≥ 55 dB  Interface  Ethernet Interface I RI45 10M/100M self-adaptive Ethernet port  Chobard Storage  Built-in memory card slot, support microSD/microSDMC cards, up to 256 GB		Third stream: H.265/H.264/MJPEG
H.265 Type Main profile  Scalable Video Coding (SVC) H.264 and H.265 encoding  Region of Interest (ROI) 8 fixed regions for each stream  Audio  Audio Compression G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM Audio Bit Rate 64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps (MP2L2)  Network  Protocols IPV4/IPV6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SMMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPOE, Bonjour  API ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK  Simultaneous Live View Up to 20 channels  User/Host Up to 32 users, 3 user levels: administrator, operator, and user  Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter  Web Browser IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+  Image  Day/Night Switch Day, night, auto, scheduled-switch Image Enhancement BLC, HLC, 3D DNR  Wide Dynamic Range (WDR) D40 d8 WDR  Defog Optical defog  Image Stabilization EIS (Built-in gyroscope to improve EIS performance)  Regional Exposure Yes  Regional Focus Yes  Regional Focus Yes  Privacy Mask Up to 24 masks, polygon region, mosaic mask, mask color configurable by client software or web browser  Image Parameters Switch Yes  Privacy Mask Up to 24 masks, polygon region, mosaic mask, mask color configurable  SNR ≥ 55 dB  Interface  Ethernet Interface 1 RJ45 10M/100M self-adaptive Ethernet port  On-board Storage  Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Video Bit Rate	32 Kbps to 16384 Kbps
Scalable Video Coding (SVC)     H.264 and H.265 encoding       Region of Interest (ROI)     8 fixed regions for each stream       Audio       Audio Compression     G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM       Audio Bit Rate     64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps (MP2L2)       Network       Protocols     IPV4/IPV6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPNP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTCP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPP0E, Bonjour       API     ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK       Simultaneous Live View     Up to 32 users, 3 user levels: administrator, operator, and user       Security     Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter       Web Browser     IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+       Image     Image Enhancement       Wide Dynamic Range (WDR)     140 dB WDR       Defog     Optical defog       Image Stabilization     EIS (Built-in gyroscope to improve EIS performance)       Regional Focus     Yes       Regional Focus     Yes       Image Parameters Switch     Yes       Privacy Mask     Up to 24 masks, polygon region, mosaic mask, mask color configurable       SNR     > 55 dB       Interface     1 RJ45 10M/100M self-adaptive Ethernet port       Chromatics     Built-in memo	H.264 Type	Baseline profile, main profile, high profile
Region of Interest (ROI) 8 fixed regions for each stream  Audio Compression G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM Audio Bit Rate 64 Kbps (G.711l/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps (MP2L2)  Network  Protocols IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour  API ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK  Simultaneous Live View Up to 20 channels  User/Host Up to 32 users, 3 user levels: administrator, operator, and user Authenticated username and password, MAC address binding, HTTPS encryption, 802.1x authenticated access, IP address filter  Web Browser IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+  Image  Day/Night Switch Day, night, auto, scheduled-switch Image Enhancement BLC, HLC, 3D DNR  Wide Dynamic Range (WDR) 140 dB WDR  Defog Optical defog Image Stabilization EIS (Built-in gyroscope to improve EIS performance)  Regional Exposure Yes  Regional Focus Yes  Regional Focus Yes  Image Parameters Switch Yes  Privacy Mask Up to 24 masks, polygon region, mosaic mask, mask color configurable by client software or web browser  Ethernet Interface 1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD/microSDNC cards, up to 256 GB	H.265 Type	Main profile
Audio Compression G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM Audio Bit Rate 64 kbps (G.711)/16 kbps (G.722.1)/16 kbps (G.726)/32 kbps to 192 kbps (MP2L2)  Network  Protocols Profice Surf, P. T.CP/IP, UDP, IGMP, ICMP, DHCP, PPPGE, Bonjour  API ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK  Simultaneous Live View Up to 20 channels  User/Host Up to 32 users, 3 user levels: administrator, operator, and user  Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter  Web Browser Ib 8 to 11, Chrome 57+, Firefox 52+, Safari 12+  Image  Day/Night Switch Day, night, auto, scheduled-switch  Image Enhancement BLC, HLC, 3D DNR  Wide Dynamic Range (WDR) 140 dB WDR  Defog Optical defog  Image Stabilization EIS (Built-in gyroscope to improve EIS performance)  Regional Focus Yes  Regional Focus Yes  Regional Focus Yes  Privacy Mask Up to 24 masks, polygon region, mosaic mask, mask color configurable by clients oftware or web browser  Ethernet Interface 1 RJ45 10M/100M self-adaptive Ethernet port  Dn-board Storage Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Scalable Video Coding (SVC)	H.264 and H.265 encoding
Audio Compression G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM Audio Bit Rate 64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps (MP2L2)  Network  Protocols IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPOE, Bonjour  API ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK  Simultaneous Live View Up to 20 channels  User/Host Up to 32 users, 3 user levels: administrator, operator, and user  Authenticated username and password, MAC address binding, HTTPS encryption, 802.1x authenticated access, IP address filter  Web Browser IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+  Image  Day/Night Switch Day, night, auto, scheduled-switch  Image Enhancement BLC, HLC, 3D DNR  Wide Dynamic Range (WDR) 140 dB WDR  Defog Optical defog  Image Stabilization EIS (Built-in gyroscope to improve EIS performance)  Regional Exposure Yes  Regional Focus Yes  Regional Focus Yes  Image Settings Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  Image Parameters Switch Yes  Privacy Mask Up to 24 masks, polygon region, mosaic mask, mask color configurable  NR ≥ 55 dB  Interface  Ethernet Interface 1 RJ45 10M/100M self-adaptive Ethernet port  On-board Storage  Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Region of Interest (ROI)	8 fixed regions for each stream
Network         Protocols       IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPGE, Bonjour         API       ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK         Simultaneous Live View       Up to 20 channels         User/Host       Up to 32 users, 3 user levels: administrator, operator, and user         Security       Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter         Web Browser       IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+         Image       Image Enhancement         Wide Dynamic Range (WDR)       140 dB WDR         Defog       Optical defog         Image Stabilization       EIS (Built-in gyroscope to improve EIS performance)         Regional Exposure       Yes         Regional Focus       Yes         Image Settings       Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser         Image Parameters Switch       Yes         Privacy Mask       Up to 24 masks, polygon region, mosaic mask, mask color configurable         SNR       ≥ 55 dB         Interface       1 RJ45 10M/100M self-adaptive Ethernet port         Christoface       Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Audio	
Network           Protocols         IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour           API         ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK           Simultaneous Live View         Up to 20 channels           User/Host         Up to 32 users, 3 user levels: administrator, operator, and user           Security         Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter           Web Browser         IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+           Image         Day, night, auto, scheduled-switch           Image Enhancement         BLC, HLC, 3D DNR           Wide Dynamic Range (WDR)         140 dB WDR           Defog         Optical defog           Image Stabilization         EIS (Built-in gyroscope to improve EIS performance)           Regional Exposure         Yes           Regional Focus         Yes           Image Settings         Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser           Image Parameters Switch         Yes           Privacy Mask         Up to 24 masks, polygon region, mosaic mask, mask color configurable           SNR         > 55 dB           Interface         1 RJ45 10M/100M self-adapt	Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM
Protocols   Protocols   Protocols   Protocols   RTCP, RTCP, RTCP, RTCP, RTCP, RTCP, RTCP, IDPN, IGMP, ICMP, DHCP, PPPOE, Bonjour	Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps (MP2L2)
RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour  API ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK  Simultaneous Live View Up to 20 channels  User/Host Up to 32 users, 3 user levels: administrator, operator, and user  Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter  Web Browser IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+  Image  Day/Night Switch Day, night, auto, scheduled-switch Image Enhancement BLC, HLC, 3D DNR  Wide Dynamic Range (WDR) 140 dB WDR  Defog Optical defog  Image Stabilization EIS (Built-in gyroscope to improve EIS performance)  Regional Exposure Yes  Regional Focus Yes  Image Settings Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  Image Parameters Switch Yes  Privacy Mask Up to 24 masks, polygon region, mosaic mask, mask color configurable  SNR 255 dB  Interface  Ethernet Interface 1 RJ45 10M/100M self-adaptive Ethernet port  On-board Storage  Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Network	
API ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK  Simultaneous Live View Up to 20 channels User/Host Up to 32 users, 3 user levels: administrator, operator, and user  Security Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter  Web Browser IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+  Image  Day/Night Switch Day, night, auto, scheduled-switch Image Enhancement BLC, HLC, 3D DNR  Wide Dynamic Range (WDR) 140 dB WDR  Defog Optical defog Image Stabilization EIS (Built-in gyroscope to improve EIS performance)  Regional Exposure Yes Regional Focus Yes  Regional Focus Yes  Image Settings Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  Image Parameters Switch Yes  Privacy Mask Up to 24 masks, polygon region, mosaic mask, mask color configurable  SNR ≥ 55 dB  Interface  Ethernet Interface 1 RJ45 10M/100M self-adaptive Ethernet port  On-board Storage  Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,
Simultaneous Live View       Up to 20 channels         User/Host       Up to 32 users, 3 user levels: administrator, operator, and user         Security       Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter         Web Browser       IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+         Image       Day/Night Switch       Day, night, auto, scheduled-switch         Image Enhancement       BLC, HLC, 3D DNR         Wide Dynamic Range (WDR)       140 dB WDR         Defog       Optical defog         Image Stabilization       EIS (Built-in gyroscope to improve EIS performance)         Regional Exposure       Yes         Regional Focus       Yes         Image Settings       Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser         Image Parameters Switch       Yes         Privacy Mask       Up to 24 masks, polygon region, mosaic mask, mask color configurable         SNR       ≥ 55 dB         Interface       1 RJ45 10M/100M self-adaptive Ethernet port         On-board Storage       Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	11000013	RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour
User/Host       Up to 32 users, 3 user levels: administrator, operator, and user         Security       Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter         Web Browser       IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+         Image         Day/Night Switch       Day, night, auto, scheduled-switch         Image Enhancement       BLC, HLC, 3D DNR         Wide Dynamic Range (WDR)       140 dB WDR         Defog       Optical defog         Image Stabilization       EIS (Built-in gyroscope to improve EIS performance)         Regional Exposure       Yes         Regional Focus       Yes         Image Settings       Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser         Image Parameters Switch       Yes         Privacy Mask       Up to 24 masks, polygon region, mosaic mask, mask color configurable         SNR       ≥ 55 dB         Interface       1 RJ45 10M/100M self-adaptive Ethernet port         On-board Storage       Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	API	ONVIF (Profile S, Profile G, Profile T), ISAPI, Hikvision SDK
Security       Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter         Web Browser       IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+         Image       Image Sethinancement         Day/Night Switch       Day, night, auto, scheduled-switch         Image Enhancement       BLC, HLC, 3D DNR         Wide Dynamic Range (WDR)       140 dB WDR         Defog       Optical defog         Image Stabilization       EIS (Built-in gyroscope to improve EIS performance)         Regional Exposure       Yes         Regional Focus       Yes         Image Settings       Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser         Image Parameters Switch       Yes         Privacy Mask       Up to 24 masks, polygon region, mosaic mask, mask color configurable         SNR       ≥ 55 dB         Interface       1 RJ45 10M/100M self-adaptive Ethernet port         On-board Storage       Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Simultaneous Live View	Up to 20 channels
Security       802.1X authenticated access, IP address filter         Web Browser       IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+         Image       Image         Day/Night Switch       Day, night, auto, scheduled-switch         Image Enhancement       BLC, HLC, 3D DNR         Wide Dynamic Range (WDR)       140 dB WDR         Defog       Optical defog         Image Stabilization       EIS (Built-in gyroscope to improve EIS performance)         Regional Exposure       Yes         Regional Focus       Yes         Image Settings       Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser         Image Parameters Switch       Yes         Privacy Mask       Up to 24 masks, polygon region, mosaic mask, mask color configurable         SNR       ≥ 55 dB         Interface       1 RJ45 10M/100M self-adaptive Ethernet port         On-board Storage       Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	User/Host	Up to 32 users, 3 user levels: administrator, operator, and user
Web Browser       IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+         Image       Image Set Day/Night Switch       Day, night, auto, scheduled-switch         Image Enhancement       BLC, HLC, 3D DNR         Wide Dynamic Range (WDR)       140 dB WDR         Defog       Optical defog         Image Stabilization       EIS (Built-in gyroscope to improve EIS performance)         Regional Exposure       Yes         Regional Focus       Yes         Image Settings       Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser         Image Parameters Switch       Yes         Privacy Mask       Up to 24 masks, polygon region, mosaic mask, mask color configurable         SNR       ≥ 55 dB         Interface       1 RJ45 10M/100M self-adaptive Ethernet port         On-board Storage       Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Security	Authenticated username and password, MAC address binding, HTTPS encryption,
Image       Day/Night Switch     Day, night, auto, scheduled-switch       Image Enhancement     BLC, HLC, 3D DNR       Wide Dynamic Range (WDR)     140 dB WDR       Defog     Optical defog       Image Stabilization     EIS (Built-in gyroscope to improve EIS performance)       Regional Exposure     Yes       Regional Focus     Yes       Image Settings     Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser       Image Parameters Switch     Yes       Privacy Mask     Up to 24 masks, polygon region, mosaic mask, mask color configurable       SNR     ≥ 55 dB       Interface     1 RJ45 10M/100M self-adaptive Ethernet port       On-board Storage     Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Security	802.1X authenticated access, IP address filter
Day/Night Switch       Day, night, auto, scheduled-switch         Image Enhancement       BLC, HLC, 3D DNR         Wide Dynamic Range (WDR)       140 dB WDR         Defog       Optical defog         Image Stabilization       EIS (Built-in gyroscope to improve EIS performance)         Regional Exposure       Yes         Regional Focus       Yes         Image Settings       Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser         Image Parameters Switch       Yes         Privacy Mask       Up to 24 masks, polygon region, mosaic mask, mask color configurable         SNR       ≥ 55 dB         Interface         Ethernet Interface       1 RJ45 10M/100M self-adaptive Ethernet port         On-board Storage       Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Web Browser	IE 8 to 11, Chrome 57+, Firefox 52+, Safari 12+
Image Enhancement       BLC, HLC, 3D DNR         Wide Dynamic Range (WDR)       140 dB WDR         Defog       Optical defog         Image Stabilization       EIS (Built-in gyroscope to improve EIS performance)         Regional Exposure       Yes         Regional Focus       Yes         Image Settings       Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser         Image Parameters Switch       Yes         Privacy Mask       Up to 24 masks, polygon region, mosaic mask, mask color configurable         SNR       ≥ 55 dB         Interface       1 RJ45 10M/100M self-adaptive Ethernet port         On-board Storage       Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Image	
Wide Dynamic Range (WDR)       140 dB WDR         Defog       Optical defog         Image Stabilization       EIS (Built-in gyroscope to improve EIS performance)         Regional Exposure       Yes         Regional Focus       Yes         Image Settings       Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser         Image Parameters Switch       Yes         Privacy Mask       Up to 24 masks, polygon region, mosaic mask, mask color configurable         SNR       ≥ 55 dB         Interface       1 RJ45 10M/100M self-adaptive Ethernet port         On-board Storage       Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Day/Night Switch	Day, night, auto, scheduled-switch
Defog       Optical defog         Image Stabilization       EIS (Built-in gyroscope to improve EIS performance)         Regional Exposure       Yes         Regional Focus       Yes         Image Settings       Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser         Image Parameters Switch       Yes         Privacy Mask       Up to 24 masks, polygon region, mosaic mask, mask color configurable         SNR       ≥ 55 dB         Interface         Ethernet Interface       1 RJ45 10M/100M self-adaptive Ethernet port         On-board Storage       Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Image Enhancement	BLC, HLC, 3D DNR
Image Stabilization       EIS (Built-in gyroscope to improve EIS performance)         Regional Exposure       Yes         Regional Focus       Yes         Image Settings       Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser         Image Parameters Switch       Yes         Privacy Mask       Up to 24 masks, polygon region, mosaic mask, mask color configurable         SNR       ≥ 55 dB         Interface       1 RJ45 10M/100M self-adaptive Ethernet port         On-board Storage       Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Wide Dynamic Range (WDR)	140 dB WDR
Regional Exposure  Regional Focus  Yes  Image Settings  Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  Image Parameters Switch  Yes  Privacy Mask  Up to 24 masks, polygon region, mosaic mask, mask color configurable  SNR  ≥ 55 dB  Interface  Ethernet Interface  1 RJ45 10M/100M self-adaptive Ethernet port  On-board Storage  Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256  GB	Defog	Optical defog
Regional FocusYesImage SettingsSaturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browserImage Parameters SwitchYesPrivacy MaskUp to 24 masks, polygon region, mosaic mask, mask color configurableSNR≥ 55 dBInterfaceInterfaceEthernet Interface1 RJ45 10M/100M self-adaptive Ethernet portOn-board StorageBuilt-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Image Stabilization	EIS (Built-in gyroscope to improve EIS performance)
Image Settings       Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser         Image Parameters Switch       Yes         Privacy Mask       Up to 24 masks, polygon region, mosaic mask, mask color configurable         SNR       ≥ 55 dB         Interface       1 RJ45 10M/100M self-adaptive Ethernet port         On-board Storage       Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256 GB	Regional Exposure	Yes
Image Settings client software or web browser   Image Parameters Switch Yes   Privacy Mask Up to 24 masks, polygon region, mosaic mask, mask color configurable   SNR ≥ 55 dB   Interface Interface   Ethernet Interface 1 RJ45 10M/100M self-adaptive Ethernet port   On-board Storage Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256   GB	Regional Focus	Yes
Client software or web browser     Image Parameters Switch   Yes     Privacy Mask   Up to 24 masks, polygon region, mosaic mask, mask color configurable     SNR   ≥ 55 dB     Interface     Ethernet Interface   1 RJ45 10M/100M self-adaptive Ethernet port     On-board Storage   GB     GB   GB     Client software or web browser     Ves     Yes     Image Parameters Switch   Yes     Up to 24 masks, polygon region, mosaic mask, mask color configurable     Ethernet Interface   1 RJ45 10M/100M self-adaptive Ethernet port     GB   GB     GB   GB     Client software or web browser     Image Parameters Switch   Yes     Configuration   Yes     Configurable   SNR   Support mask, mask color configurable     Configurable   SNR   SN	Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by
Privacy Mask  Up to 24 masks, polygon region, mosaic mask, mask color configurable  SNR  ≥ 55 dB  Interface  Ethernet Interface  1 RJ45 10M/100M self-adaptive Ethernet port  On-board Storage  Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256  GB	mage sectings	client software or web browser
SNR ≥ 55 dB  Interface  Ethernet Interface 1 RJ45 10M/100M self-adaptive Ethernet port  On-board Storage Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256  GB		
Interface  Ethernet Interface 1 RJ45 10M/100M self-adaptive Ethernet port  On-board Storage Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256  GB	Privacy Mask	
Ethernet Interface 1 RJ45 10M/100M self-adaptive Ethernet port  On-board Storage Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256  GB		≥ 55 dB
On-board Storage  Built-in memory card slot, support microSD/microSDHC/microSDXC cards, up to 256  GB	Interface	
On-board Storage  GB	Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Alarm 7 inputs, 2 outputs	On-board Storage	
	Alarm	7 inputs, 2 outputs



7	1 input //incip) many input amplitudes 2.2.4 year input impodences 1.1/O J 100/s
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K $\Omega$ ± 10%;
	1 output (line out), line level, output impedance: $600  \Omega$
Video Output	1.0V[p-p]/75Ω, PAL, NTSC, BNC connector
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Event	
Basic Event	Motion detection, video tampering alarm, alarm input and output, exception
	Object removal detection, unattended baggage detection, intrusion detection, line
Smart Event	crossing detection, region entrance detection, region exiting detection, audio
	exception detection
Smart Tracking	Manual tracking, auto-tracking
Alama Liaka aa	Preset, patrol scan, pattern scan, memory card video recording, alarm output, send
Alarm Linkage	email, notify surveillance center, upload to FTP, smart tracking, NAS video recording
Deep Learning Function	
	Detects up to 30 faces at the same time. Supports detecting, tracking, capturing,
Face Capture	grading, selecting of face in motion, and outputs the best face picture
Road Traffic and Vehicle Det	ection
	Supports vehicle detection (license plate number, vehicle model, and vehicle color
Road Traffic	recognition)
General	
Vandal-proof Alarm	Yes
General Function	Mirror, password protection, watermark, IP address filter
Power	36 VDC, max. 90 W, including max. 18 W for IR
Operating Condition	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%
Wiper	Yes. Rain-sensing auto control
Material	ADC12
Dimension	Ø 293 mm × 422 mm (Ø 11.5" × 16.6")
Weight	Approx. 13 kg (28.7 lb)
Weight	32 languages. English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,
	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,
Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Approval	man, victualitiese, supuliese, Eutviali, Ettitualitali, i Ortuguese (Diazil)
Aprotai	Lightning Protection, Surge Protection and Voltage Transient Protection, ±6kV Line to
EMC	Gnd, ±3kV Line to Line, IEC61000-4-5
Ductostica	·
Protection	IP67

### 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.

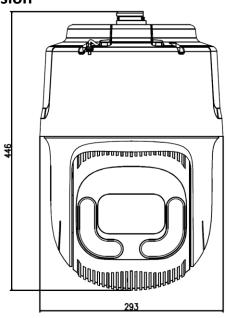
This model has NO SPECIFIC PROTECTION.

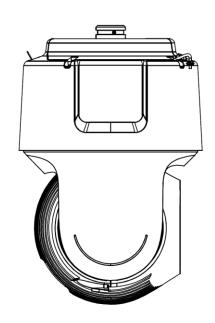
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion
	protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and



/	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





### Accessory

### Included:



EUV-150S036ST-KW02 Power adapter



Installation Adapter

### **Optional:**



DS-1603ZJ-P Wall mount



DS-1603ZJ-Pole-P Vertical pole mount



DS-1668ZJ(20)-P Pendant mount



DS-1668ZJ-P Pendant mount



DS-1619ZJ-HP2 Gooseneck Mount



DS-1603ZJ-Corner-P Corner mount



#### Available Model

DS-2DF9C435IHS-DLW (T2)

Distributed by		
	7	

## **HIKVISION**°

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