DS-2DF9C245IHS-DLW(T2)
2 MP 45x Outdoor IP IR PTZ Camera

The Hikvision DS-2DF9C245IHS-DLW (T2) 2 MP 45x Outdoor IP 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 camera can be widely used for wide ranges of high-definition such as rivers, forests, roads, railways, airports, ports, squares, parks, scenic spots, stations, large venues, etc.

Available Models:
DS-2DF9C245IHS-DLW(T2)

- Dual-Sensor, 1/1.8" Progressive Scan CMOS

- Full-Color Image Output

- Up to 1920 × 1080 Resolution

- Minimum Illumination:

  Color: 0.0005 Lux @ (f/1.6, AGC on)
  B/W: 0.0001 Lux @ (f/1.6, AGC on)
  0 Lux with IR

- 45x Optical Zoom, 16x Digital Zoom

- 140 dB WDR, 3D DNR, HLC, BLC, EIS, Optical Defog

- H.265+/H.265 Video Compression

- Rapid Focus

- Deep Learning-Based Target Classification for Auto-Tracking 2.0 and Perimeter Protection

- 550 yd (500 m) IR Range, Smart IR

- Rain-Sensing Auto Wiper

Specifications

DS-2DF9C245IHS-DLW(T2)	
Camera Module	
Image Sensor	1/1.8" progressive scan CMOS, dual-sensor structure
Minimum Illumination	color: 0.0005 lux @ (ƒ/1.6, AGC on), B/W: 0.0001 lux @ (ƒ/1.6, AGC on), 0 lux with IR
Shutter Speed	1/1 to 1/30,000s
Slow Shutter	Yes
Focus	Semi-auto, manual, auto
Day/Night	Electronic
Day/Night Switch	Day, night, auto, scheduled-switch
BLC	Yes
WDR	140 dB WDR
HLC	Yes
3D DNR	Yes
Defog	Yes
EIS	Yes
Regional Exposure	Yes
Regional Focus	Yes
Image Settings	Saturation, brightness, contrast, sharpness
Image Parameters Switch	Yes
White Balance	Auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, MWB
Digital Zoom	16x
Optical Zoom	45x
Privacy Mask	Up to 24 masks, polygon region, mosaic mask, mask color configurable
Picture Overlay	Yes
SNR	≥55 dB
General Function	Mirror, password protection, watermark, IP address filter
Lens	
Focal Length	5.9 mm to 265 mm
Zoom Speed	Approximately 4.8 s
FOV	Horizontal field of view: 58.9° to 1.7°(wide–tele) Vertical field of view: 35.3° to 0.9°(wide–tele) Diagonal field of view: 65.9° to 1.9° (wide–tele)
Minimum Working Distance	100 mm to 1500 mm (wide–tele)
Aperture	ƒ/1.6
Aperture Range	ƒ/1.6 to ƒ/4.4
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 Zoom	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
Vandal-Resistant Alarm	Yes
Video	
Maximum Resolution	1920 × 1080
Stream Type	Main stream, sub-stream, third stream
Main Stream	30 fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	H.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
H.264+	Yes
H.265+	Yes
SVC	Yes
ROI	Yes
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)

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Specifications (continued)

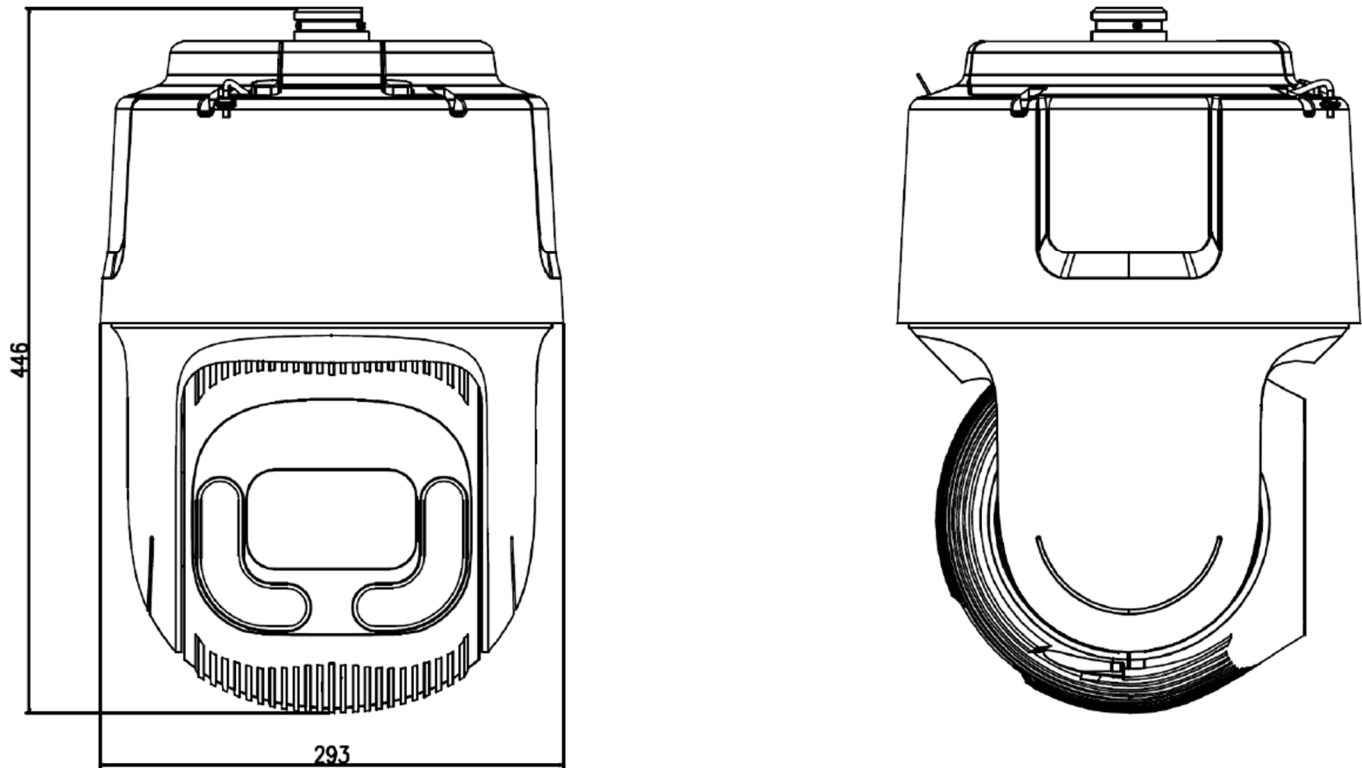|	
Smart Features	
Face Capture	Detects up to 30 faces at the same time. Detects, tracks, captures, grades, selects face in motion, and outputs best face picture
Road Traffic	Supports vehicle detection (license plate number, vehicle model, and vehicle color)
Basic Events	Motion detection, video tampering alarm, alarm input and output, exception
Smart Event	Unattended baggage detection, object removal detection, intrusion detection, line crossing detection, region entrance detection, region exiting detection, audio exception detection
Smart Tracking	Manual tracking, event tracking, auto-tracking
Smart Record	ANR, dual-VCA
Alarm Linkage	Preset, patrol scan, pattern scan, memory card video recording, alarm output, send e-mail, notify surveillance center, upload to FTP, smart tracking, NAS video recording
Smart Encoding	H.265+, H.264+, ROI, SVC
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	ISAPI, Hikvision SDK, ONVIF (Profile S, Profile G, Profile T)
Simultaneous Live Views	20
Users/Hosts	32
Security Measures	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+
Interface	
On-Board Storage	Built-in microSD slot, supports microSD/microSDHC/microSDXC cards, up to 256 GB
Alarm Input	7 alarm inputs
Alarm Output	2 alarm output
Audio Input	1 audio input, 2.0 to 2.4Vp-p, 1k Ω ±10%
Audio Output	1 audio output, line level, impedance: 600 Ω
Video Output	1.0V[p-p]/75 Ω, PAL, NTSC, BNC connector
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive
Supplement Light	
IR Distance	500 meters
Smart IR	Yes
General	
Power	36 VDC
Power Consumption and Current	Maximum 90 W, including maximum 12 W for IR
Operating Conditions	Temperature: -40° to 158° F (-40° to 70° C), humidity: ≤95% non-condensing
Wiper	Yes, rain-sensing auto control
Material	ADC12
Color	Gray
Dimensions	Ø11.5" × 16.6" (Ø293 mm × 422 mm)
Weight	Approximately 28.7 lb (13 kg)
Web Client Language	32 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Approval	
EMC	Lightning protection, surge protection, and voltage transient protection, ±6 kV line to gnd, ±3 kV line to line, IEC61000-4-5
Protection	IP67

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)	3351.7 m (10996.4 ft)	1330 m (4363.5 ft)	670.3 m (2199.1 ft)	335.2 m (1099.7 ft)

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Dimensions (Units: mm)

446

293

Accessories

INCLUDED	
36 VDC Power Adapter	**G1.5 Adapter** Converts Hikvision quick release to G1.5"

NOT INCLUDED			
WMP-PV-G Wall Mount	**PM-G** Vertical Pole Mount (shown w/WMP-PV-G wall mount)	**CPM20-PV-G** Pendant Mount	**CPM-PV-G** Pendant Mount

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