HIKVISION

DS-2DF8223I-AEL(W)/DS-2DF8236I-AEL(W)(B) 2MP Ultra-low Light Smart PTZ Camera























Hikvision Darkfighter series DS-2DF8223I-AEL(W)/DS-2DF8236I-AEL(W)(B) smart PTZ dome cameras are able to capture high quality colored images in dim light environment with its cutting-edge low illumination level down to 0.002Lux (color). Embedded with 1/1.9" progressive scan CMOS chip makes true WDR (120dB) and 2MP real-time resolution possible. With the 23X/36X optical zoom Day/Night lens, the camera offers more details over expansive areas.

The Darkfighter PTZ camera also features a wide range of smart functions, including face detection, intrusion detection, line crossing detection and audio exception, benefitting users with great improvement on security efficiency, more importantly, with key events / objects being recorded for further forensic needs. These features, combined with smart tracking, which enables the camera to detect any progressively moving object and follow it within the camera's area of coverage without fault. Smart Defog and EIS (Electronic Image Stabilization) are further supported to improve image quality in challenging conditions.

The Darkfighter smart PTZ opens up new opportunities for 24-hour CCTV surveillance, the overall excellence of the camera has been recognized by the IFSEC Security & Fire Excellence Awards as a finalist for "CCTV Camera Equipment of the Year".





Key Features

- 1/1.9" HD CMOS sensor
- 2MP(1920*1080) Full HD
- 23X/36X 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



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Function Description

Basic function:

- High performance CMOS, up to 1920x1080 resolution
- ± 0.1 ° Preset Accuracy
- ONVIF(Open Network Video Interface Forum),
 CGI(Common Gateway Interface), PSIA(Physical Security
 Interoperability Alliance), to ensure greater
 interoperability between different platforms and
 compatibility
- · 3D intelligent positioning function
- 3D DNR
- IP66 standard
- 7 alarm inputs and 2 alarm outputs
- · Scheduled PTZ movement

Smart function:

- Smart tracking modes: support manual/panorama/ intrusion trigger/line crossing trigger, support smart tracking when patrol between multiple scenarios
- Smart detection: support face detection, intrusion detection, line crossing detection, audio exception detection
- Smart recording: support edge recording, support dual-VCA for smart search in smart NVR
- Smart image processing: support defog, HLC, smart IR, EIS
- Smart codec: low bit rate, ROI

Camera function:

- Auto iris, auto focus, auto white balance, backlight compensation and auto day & night switch
- Min. Illumination: 0.002Lux@(F1.5,AGC ON)(Color), 0.0002Lux@(F1.5,AGC ON)(B/W)
- Support privacy mask with multiple colors and mosaics on polygonal areas

PTZ function:

- 360 $^{\circ}$ endless pan range and -20 $^{\circ}$ ~ 90 $^{\circ}$ tilt range
- \bullet 240 $^{\circ}$ /s Pan Preset Speed and 200 $^{\circ}$ /s Tilt Preset Speed
- 0.1 $^{\circ}$ ~ 160 $^{\circ}$ /s Manual Pan Speed and 0.1 $^{\circ}$ ~ 120 $^{\circ}$ /s Manual Tilt Speed
- 256 presets programmable; preset image freezing capability

- 8 patrols, up to 32 presets per patrol
- 4 patterns, with the recording time not less than 10 minutes per pattern
- Proportional zoom function
- Park action: auto call up of PTZ movement, after a defined time of inactivity
- Power-off memory: restore PTZ & Lens status after reboot

Network function:

- H.264/MJPEG/MPEG4 video compression
- · H.264 encoding with Baseline/Main/High profile
- ROI(Region of Interest) encoding(support 24 areas with adjustable levels)
- · Built-in Web server
- · Onboard storage, up to 64GB
- Support up to 8 NAS storage; Edge recording(transmit the videos from SD card to the NAS after network resumed)
- HTTPS encryption and IEEE 802.1X port-based network access control
- Support trip-streams
- Multiple network protocols supported: IPv4/Ipv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPP0E
- 1 audio input and 1 audio output

IR function:

- 0 Lux minimum illumination
- Up to 200m IR distance
- IR light MTBF reaching up to 30,000 hours



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Model	DS-2DF8223I-AEL(W)/DS-2DF8236I-AEL(W)(B)
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 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 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 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	Support 24 areas with aujustable levels
IR Distance	Up to 200m
IR Intensity	Automatically adjusted, depending on the zoom ratio
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
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
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: 25lps(104×576, 352×288, 176×144); 60Hz: 30lps(704×460, 352×240, 176×120) 50Hz: 25fps(1920×1080, 1280×960, 1280×720, 704×576, 352×288, 176×144) 60Hz: 30fps(1920×1080, 1280×960, 1280×720, 704×480, 352×240, 176×120)



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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	High-PoE&24 VAC, Max.60W
Working Temperature	-40° C~65° C (-40° F~149° F)
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; Pole Mount: DS-1602ZJ-pole; Power box mount:DS-1602ZJ-box; Swan-neck mount: DS-1619ZJ

Dimensions

No. 266. 6 Unit:mm

Accessories

