FLIR ELARA™ DX-SERIES
Multi-Spectral PTZ Camera

Key Features:

- Integrated thermal and visible sensors capture sharp video where other PTZ cameras cannot
- Thermal sensor provides complete awareness in rain, snow, light fog, and total darkness
- Built to handle the challenges of critical infrastructure sites and other demanding locations
- Optional thermal zoom up to 5x with 15 mm to 75 mm zoom lens
- Enhanced cybersecurity measures safeguard system from developing threats
- Easy-to-use web interface simplifies set-up across all FLIR security cameras

SPECIFICATIONS

Thermal Sensor & Optics

Thermal Sensor & Optics				
Array Format	640 × 480 and 320 × 240 pixels			
Thermal Sensitivitiy	< 50 mK@ 25°C			
Detector Type	Long-life, uncooled VOx microbolometer			
Pixel Pitch	12 µm			
Thermal Frame Rate	NTSC: 30 Hz or PAL: 25 Hz / 8.3 Hz			
Optical Characteristics	Model	FOV	Focal Length	F#
	DX-350	50° × 38°	4.3 mm	F/1.0
	DX-324	24° × 18°	9.1 mm	F/1.0
	DX-312	12° × 9°	18 mm	F/1.0
	DX-306	6° × 5°	36 mm	F/1.0
	DX-650	50° × 38°	8.7 mm	F/1.0
	DX-624	24° × 18°	18 mm	F/1.0
	DX-612	12° × 9°	36 mm	F/1.0
	DX-608	8° × 6°	55 mm	F/1.0
	DX-606z	30° × 23° to 6° × 3°	15 mm to 75 mm	F/1.2
E-Zoom	Continuous E-zoom to 4×			
Spectral Range	7.5 µm to 13.5 µm			
Focus Range	Athermalized, focus-free [DX-606z: motorized continuous zoom; autofocus with minimum focus range of 7 m (wide) to 18 m (narrow)]			

Video

Video	
Video Compression	Thermal: one channel of H.264 & M-JPEG Visible: two independent channels of H.264 & M-JPEG
Streaming Resolution	Thermal: QVGA to VGA Visible: VGA to 4k

Thermal Image Settings	Auto AGC, Dynamic Detail Enhancement (DDE), Brightness, Sharpness, Contrast
Thermal AGC Region of Interest (ROI)	Default, Presets and User Definable to ensure optimal image quality on subjects of interest
Image Uniformity Optimization	Automatic Flat Field Correction (FFC) - thermal and temporal triggers

System Integration

System Integration	
Ethernet	10/100/1000 Mbps
Network APIs	FLIR SDK, FLIR CGI, ONVIF Profile S
Digital I/O	Input: 4 Sets / 5 V 10 kΩ pull up Output: 2 Set / Relay output, max. 130 mA 24 VDC/AC
Audio I/O	Bi-directional audio - connection - terminal block
Illumination	Up to 200 m NIR illumination Distance: up to 200 m (656 ft) | 6° / 30 / 90° Peak emission wavelength: 850 nm
Wiper	Wiper is standard and camera is compatible with a washer accessory

Network

Network	
Supported Protocols	IPV4, HTTP, UPnP, DNS, NTP, RTSP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP

Pan / Tilt Performance

Pan / Tilt Performance	
Pan Angle / Speed	Continuous 360°- 0.1° to 90° /sec
Tilt Angle / Speed	-10° to 190° - 0.1° to 60°/sec
Programmable Presets	256

General

General	
Input Voltage	24 VAC (±10%) Universal POE injector

Specifications subject to change. For the most up-to-date specifications, please visit flir.com.

SPECIFICATIONS, CONT.

Weight	9.1 kg (20.1 lb)
Dimensions	Diameter: 275 mm (10.8 in) Height: 368 mm (14.5 in)
Power Consumption	24 VAC max: 61 W PoE max: 43 W

Environmental

IP Rating (Dust & Water Ingress)	IP66
Operating Temperature Range	-40°C to 60°C
Storage Temperature Range	-55°C to 85°C
Humidity	0-95% relative
Shock	IEC 60068-2-27
Vibe	IEC 60068-2-64
Vandalism	IK10 except for windows

Compliance & Certifications

FCC Part 15 (Subpart B, class A)

CE Marked

RoHS

IP66

WEEE

NEMA 4X

IEC 62368

ONVIF Profile S

Visible Light Camera

Sensor Type	Full HD 4K 1/1.8-type CMOS
Lens Field of View	HFOV: 61.8° to 2.15° VFOV: 36.65° to 1.2°
Focal Length	6.5 mm - 202 mm
Zoom	Optical zoom: 31 Continuous e-zoom to 8x
F/#	F/1.55 (wide); F/4.8 (tele)
Sensitivity	Color: 0.25 Lux (@ (f1.6 AGC On, 30FPS) B/W: 0.10 Lux (@ (f1.6 AGC On, 30FPS)

Cyber Security

IEEE 802.1x
TLS/HTTPS
User authentication
Access control via firewall
User credentials with policy enforcement
Digest authentication

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