



MULTI-SPECTRAL PTZ CAMERA

FLIR ElaraTM DX-Series

The FLIR Elara DX multi-spectral pan/tilt/zoom (PTZ) security camera provides full situational awareness in the most punishing environments. Combining thermal and visible light imagers, the Elara DX gives operators the ability to monitor large areas in complete darkness, glaring light, and adverse weather. The exceptional detection and identification capabilities of multi-spectral cameras help integrators provide high-quality solutions for challenging imaging problems at critical infrastructure sites and remote facilities.



MULTI-SPECTRAL IMAGING IN ANY CONDITION

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
- 4K visible resolution produces exceptional clarity
- Onboard IR illuminator enables excellent low light visible imaging
- Visible sensor optical zoom up to 31x



DESIGNED TO WITHSTAND EXTREME ENVIRONMENTS

Built to handle the challenges of critical infrastructure sites and other demanding locations.

- IP66- and NEMA-4X-rated
- Available lens wiper/washer keeps lenses clean and clear in remote installations
- Extreme operating temperature range of -40°C to 60°C
- Discreet pendant form factor



BUILT-IN, HIGH-QUALITY CYBERSECURITY HARDENING

Enhanced cybersecurity measures safeguard system from developing threats.

- Easy-to-use web interface simplifies set-up across all FLIR security cameras
- Regular firmware updates offer additional features and security improvements

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Sensor Security

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SPECIFICATIONS

Thermal Sensor & Optics				
Array Format (NTSC)	640 × 480 & 320 × 240 (640 × 512 @30fps max)			
Thermal Sensitivity	< 50mK@ 25°C F# 1.0			
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
E-Zoom	Continuous E-Zoom to 4×			
Spectral Range	7.5 µm to 13.5 µm			
Focus Range	Athermalized, Focus-Free			
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 insure optimal image quality on subjects of interest			
Image Uniformity Optimization	Automatic Flat Field Correction (FFC) - Thermal and Temporal Triggers			
System Integration				
Ethernet	10/100/1000 Mbps			
Network APIs	FLIR SDK, FLIR CGI			
Digital I/O	Input: 4 Sets / 5V 10kΩ pull up Output: 2 Set / Relay output, max. 130mA 24VDC/AC			
Audio I/O	Bi-Directional Audio - connection - Terminal block			
Illumination	Up to 200m NIR illumination Distance: Up to 200m (656ft.) 6° / 30° / 90° Peak emission wavelength: 850 nm			
Wiper	Wiper is standard and camera is compatible with a washer accessory			
Network				
Supported Protocols	IPv4, HTTP, UPnP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP			
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	
Input Voltage	24 VAC(±10%) Universal POE injector
Weight	9.1kg (20.1lb)
Dimensions	Diameter: 275mm (10.8in) Height: 368mm (14.5in)
Power Consumption	24 VAC max: 61W PoE max: 43W
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	
Visible Light Camera	
Sensor Type	Full HD 4K 1/1.8-type CMOS
Lens Field of View	HFOV: 61.8° - 2.15° VFOV: 36.65° - 1.2°
Focal Length	6.5mm - 202mm
Zoom	Optical Zoom: 31 Continuous E-zoom to 8x
F/#	F1.55 (Wide); F4.8 (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	

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com