FLIR Elara™
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.

www.flir.com/security

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

SPECIFICATIONS

Thermal Sensor & Optics

Array Format	640 × 480 & 320 × 240
Thermal Sensitivitiy	< 50mK@ 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

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 ensure 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, ONVIF Profile S
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, 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

ONVIF Profile S

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

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