



MULTI-SPECTRAL PTZ CAMERA

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.

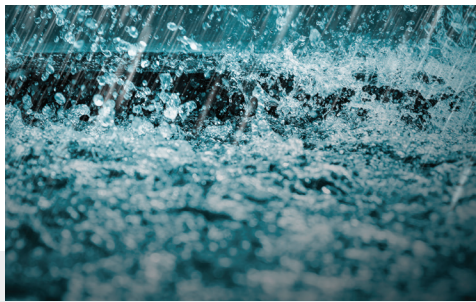
www.flir.com/security



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 (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 4x | | | |
| 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, 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

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