



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

www.flir.com/security

SPECIFICATIONS

Thermal Sensor & Optics				
Array Format	640 × 480 and 320 × 240 pixels			
Thermal Sensitivity	< 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 4x			
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 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 / 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	
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

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

For more information contact: Sales@TeledyneFLIR.com
or to find your local support number, visit: flir.com/contactsupport
www.teledyneflir.com

This product is subject to United States export regulations and may require US authorization prior to export, reexport, or transfer to non-US persons or parties. Diversion contrary to US law is prohibited.

For assistance with confirming the Jurisdiction & Classification of Teledyne FLIR, LLC products, please contact exportquestions@flir.com. ©2023 Teledyne FLIR, LLC. All rights reserved.

Revised 05/12/23
Elara DX_Datasheet-LTR 23-0328



FLIR ELARA™ DX-SERIES

Multi-Spectral PTZ Camera

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	



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

For more information contact: Sales@TeledyneFLIR.com
or to find your local support number, visit: flir.com/contactsupport
www.teledyneflir.com

This product is subject to United States export regulations and may require US authorization prior to export, reexport, or transfer to non-US persons or parties. Diversion contrary to US law is prohibited.

For assistance with confirming the Jurisdiction & Classification of Teledyne FLIR, LLC products, please contact exportquestions@flir.com. ©2023 Teledyne FLIR, LLC. All rights reserved.

Revised 05/12/23
Elara DX_Datasheet-LTR 23-0328