MODO-PL-640-50

640 Polarimetric Long-wave Infrared Imaging Module

Overview

640×512 polarimetric LWIR module at 7µm pixel pitch. Detects camouflaged targets and discriminates materials by polarization signature. CameraLink, 45×45mm.



640×512

RESOLUTION

7 µm

PIXEL PITCH

Polarimetric Long-wave IR (LWIR): 8–14 µm

SPECTRAL RANGE

Key Features

How Polarimetric LWIR Works

- Man-made surfaces emit thermally polarized radiation due to their smooth, uniform geometry.

Key Features

- 7 µm pixel pitch — highest spatial sampling in the product range
- Polarimetric discrimination — reveals camouflaged targets against natural backgrounds
- 45×45 mm compact format — adaptable to research instruments and specialized payloads
- CameraLink interface — industry-standard for scientific and industrial imaging

Typical Applications



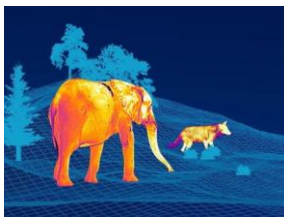
Long-range Surveillance



Industrial Inspection



Law Enforcement



Environmental Protection

Technical Specifications

Detector & Optics

Spectral Band	Polarimetric Long-wave IR (LWIR): 8–14 μm
Resolution	640×512
Pixel Size	7 μm
Compatible Lenses	Fixed-focus athermalized, Continuous zoom, Motorized focus, Dual FOV

Power & Physical

Dimensions	45×45 mm
Power Supply	DC 12V

Video & Interfaces

Video Interface	CameraLink
Communication	RS232

Specifications subject to change without notice.
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