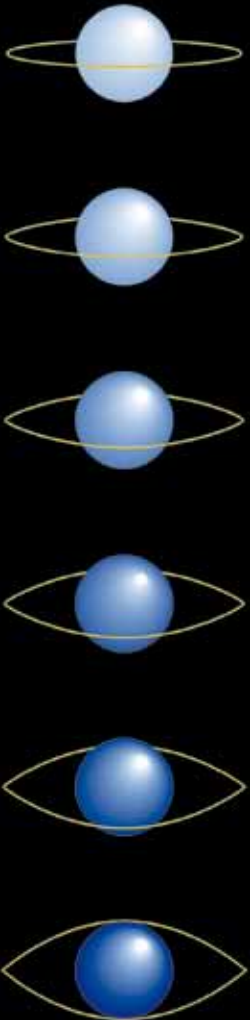


AGILIS-LR

Cooled Handheld Thermal Imaging Camera with Continuous Zoom and Target Acquisition Capabilities



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Description

AGILIS-LR is an extremely performant, advanced, handheld, compact thermal imaging camera with continuous optical zoom for long range day/night observation, reconnaissance, and target acquisition. It offers outstanding tactical capabilities and advantages. AGILIS-LR is especially suited for mobile operations and can be used as a handheld device, mounted on a tripod or integrated in a platform.

Configuration

AGILIS-LR comprises the following main components :

- Cooled 3-5 μm FPA Thermal Imager
- Continuous 5x optical zoom
- High performance Eyesafe Laser Rangefinder
- 2 CCD Day cameras (Wide and Narrow)
- Digital Compass/inclinometer
- GPS receiver
- High resolution binocular OLED viewer
- Real time target acquisition software
- Target data and target image memory
- Fast Giga-bit Ethernet digital communication port
- RS422 digital communication port

AGILIS-LR enables the user to observe the surrounding scenery, acquire targets during day and night, measure the Range, Azimuth and Elevation of an observed target by simply pressing the Laser activation button and immediately measure the Polar coordinates of the target (Azimuth, Elevation and Range relative to own position). The rectangular coordinates of the target (Lat/Long, UTM or MGRS) are calculated in real time. The target data and a still frame image of the target are automatically stored in the internal memory and can be transmitted to any external system or user via the system's wide band Giga-bit Ethernet digital communication port.

The AGILIS-LR thermal imager features a continuous high ratio (x5) optical zoom, enabling the user to search for the target in the Widest FOV and zoom-in to the Narrowest FOV, with no risk of losing the target.

The two CCD cameras enable the user to observe the scenery and acquire a target during natural light hours or assist the user to acquire a target under darkness by

enabling him to observe and aim at a laser pointer spot (830nm) aimed at the target by a crew mate.

The Narrow FOV CCD camera matches the narrowest FOV of the Thermal Imager.

Features

- Lightweight & compact
- High range performance
- Continuous optical zoom (x5) (IR)
- IR/LRF combined optics
- High Resolution 640x512 elements detector
- Integrated Eyesafe LRF, Invisible LRF beam
- Integrated GPS, Digital Magnetic Compass and Inclinometer
- Two integrated CCD cameras (Wide and Narrow) with See-Spot capability
- Small optical apertures for reduced exposure
- Outstanding image quality
- Real-time target acquisition and target UTM coordinates calculation
- Target image and data storage memory
- Colour OLED display, adjustable biocular viewer
- Video-in connector for displaying digital maps from external source
- User selectable displayed image – Thermal, CCD 1, CCD 2 or External Video
- Ruggedized construction
- High reliability

Options

- Add-on Laser Pointer
- Tripod
- Goniometer for higher Az/EI angular accuracy
- X2 Add-on Telescope

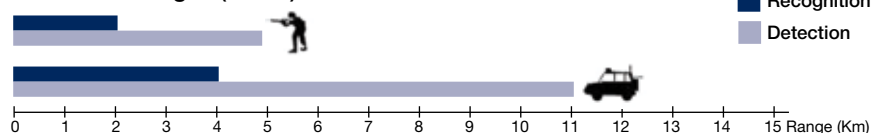
Quality

The quality management system applied by OIP Sensor Systems for design, development and manufacturing of opto-electronic systems, is compliant with and includes the requirements of ISO 9001:2008, AQAP-2110 Ed.1, ECSS-Q-20B and has been certified by the British Standard Institute under certificate N° FM 80768.



RANGE PERFORMANCE

Calculated ranges (NFOV):



TECHNICAL SPECIFICATIONS

Thermal imager

Wavelength	: MWIR 3-5 μm
Detector - type	: InSb FPA, 640x512
- Cooler	: Stirling Closed cycle
	Integrated with Dewar

Fields-of-View : Continuous (5x) optical zoom between:

Minimum (Narrowest) FOV	: 2.5°x1.9°
Maximum (Widest) FOV	: 12.5°x9.4°

Electronic zoom : x2, x4

CCD camera's :

Wide FOV	: 2.5°x1.9° FOV monochrome high resolution
Narrow FOV	: 10°x7.5° FOV monochrome high resolution
	830 nm (laser pointer) see-spot capability

Interfaces

Video out	: RS170 60 Hz or CCIR 50 Hz (factory set)
Communication	: RS422 port, Giga-bit Ethernet for communication with external PC and for digital video output (GigE-Vision)

Display module

Biocular Eyepiece	: IPD adjustable from 53 to 70 mm
Diopter adjustment	: +2 to -6 D
Display	: OLED display

Laser Rangefinder

Type	: Erbium Glass, Passive Q-switch
Wavelength	: 1.54 μm
Laser safety	: Eyesafe (class 1)
Lasing max. Range	: > 5 km
Beam Divergence	: 0.7 mRad
Laser Energy	: > 2 mJ
Range Accuracy	: ± 5 m
Range Displayed Resolution	: 1 m
Continuous Lasing Rate	: 6 ppm max.

Digital magnetic compass

Azimuth & Elevation accuracy	: 1 deg. RMS
Displayed angle format	: deg/mil (user selectable)

Power sources

Rechargeable battery, autonomy	> 3 hrs
External power source	

Mechanical

Weight	: < 3.6 kg (incl. battery)
Volume	: 1.8 L

General

Operating temperature	: -30°C to +55°C
Environmentals	: MIL-STD-810F

Data are for information only and can be subject to change without prior notice

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