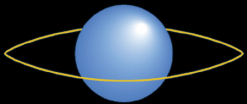
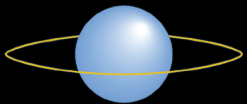
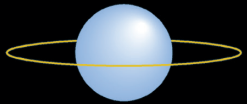




MARIS

**Uncooled Hand-Held Thermal Imager
with Target Acquisition Capabilities**





MARIS

Uncooled Hand-Held Thermal Imager with Target Acquisition Capabilities

Description

MARIS is an extremely compact, lightweight, uncooled day/night system for observation purposes and target acquisition.

MARIS features a 8-12 μm dual Field-of-View uncooled thermal imager, a colour CCD, a laser rangefinder and a high resolution OLED display and viewer, all housed in a very compact ruggedized and sealed housing.

The two fields of view of the thermal imager, combined with low power consumption, make the MARIS the ideal solution to a wide range of applications including security and perimeter defense, infantry, scouts, special units and target acquisition for infantry commanders.

Configuration

MARIS includes the following main components:

- Dual FOV uncooled Thermal Imager
- Two day CCD cameras:
 - Monochrome Wide FOV camera with See-spot capability
 - Colour Narrow FOV camera
- Eyesafe Laser rangefinder
- Integrated GPS
- Integrated Digital Magnetic Compass (DMC)
- High resolution OLED display and viewer
- Built-in real time video recorder (MPEG compression)
- Real time target acquisition and location tactical software

The Thermal Imager is an uncooled single FOV LWIR (8-12 μm) thermal Imager based on the VOx microbolometer technology.

The main electronics board includes and controls the thermal imager signal, the image processing, the OLED and monitors and controls all power and communication interfaces.

The OLED display is a miniature, high resolution display coupled to a monocular or binocular diopter adjustable magnifying viewer.

Features

- Extremely lightweight and compact
- Day/night operation
- Dual FOV Thermal Imager
- 2 FOV Day Camera
- Laser pointer spot visible by day camera
- Integrated Eyesafe LRF
- Integrated digital magnetic compass
- Integrated GPS
- Real time target acquisition and target coordinates calculation
- Image and target data storage memory
- Built-in real time video recorder
- Advanced high resolution OLED display
- Low power consumption
- High reliability

Applications

- Infantry, scouts, security and special forces
- Security, coastal, border and perimeter defense
- Target acquisition systems for infantry commanders
- Night sight and target acquisition for "Future Soldiers."

Options

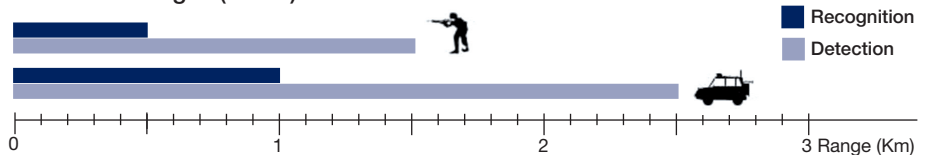
- Integrated laser pointer
- Tripod

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	: 8-12 μm
Detector :	
- type	: uncooled VOx microbolometer
- N° of elements	: 384x288
Fields-of-View :	
Narrow FOV	: 6°x4.5°
Wide FOV	: 18°x13.5°
Electronic zoom	: x2, x4

CCD cameras

Wide FOV camera	: CMOS, monochrome, 12°x10° See-spot capability
Narrow FOV camera	: CMOS, colour, 3°x2.5°

Power sources

Rechargeable or disposable battery	
Autonomy > 6 hours (rechargeable battery)	

Diopter adjustment	: +2 to -6 D
Display	: high resolution OLED
Laser Rangefinder	: Eyesafe 1.54 μm
GPS, DMC	: integrated
Communication port	: RS422 and Ethernet
Video output	: CCIR or RS170 (factory set)

Mechanical

Weight	: ≤ 2 kg (incl. battery)
Dimensions	: 200x180x90 mm

General

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

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 **OIP**
Sensor Systems

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