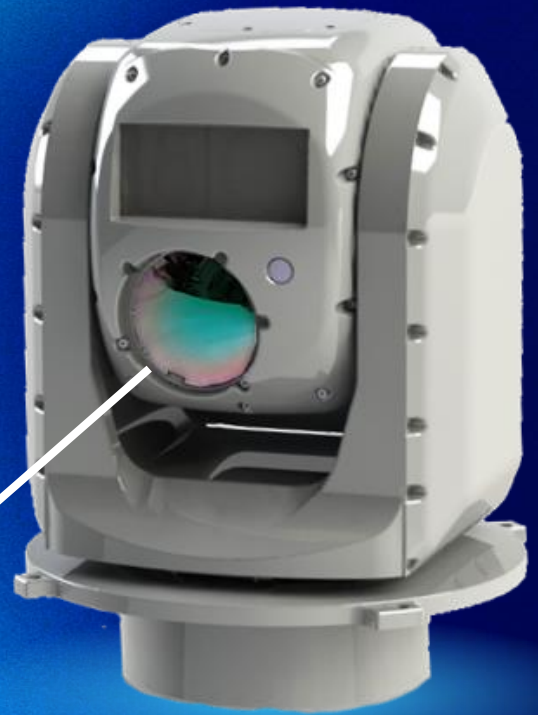




Falcatos

Electro-optical sight for day/night

Providing outstanding
performance in a compact
and very robust format



Internal Camera

ORISÓN-230HR Thermal Imager



MWIR Image, Leopard Tank
at 4Km, Northern Germany



MWIR Image, Oil Tanker at 4.5Km,
Gibraltar.



MWIR Image, Merchant Ship
at 4Km, South coast of Spain

Electrooptic Vision Systems

Designed specifically
as a Sight for
armoured vehicles but
can be used as a
surveillance system on
any terrestrial or
maritime platforms.

Made up of two LRUs
to allow substitution of
the optronic Sensor
Module within
minutes, eliminating
the need to return
complete system to
manufacturer.

2 axis gyro stabilized
platform stabilising the
optronic payload to
better than 50µrad.

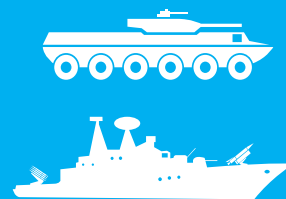
System advantages:

- Observation/Surveillance day and night, for detection and identification.
- Tight boresight and focus through zoom for both thermal and daylight camera
- Automatic tracking, of both maritime and ground targets.
- Sub mrad alignment between sensors.
- <50μrad mechanical image stabilization
- Automatic scan modes.
- Qualified for the harshest environmental conditions.

Standard systems includes four sensors:

- **ORISÓN-230HR HOT MWIR** x17 continuous zoom camera with typically 2.5 minute cool down period.
- Full High-Definition colour x26 continuous zoom daylight camera
- Eye safe Laser Range Finder.
- Optional NIR Laser Pointer

The Falcatos optronic payload is available in a range of colours and has been qualified for both Ground Mobile and Naval Unsheltered applications.



Falcatos characteristics

Electro-Mechanical

| | |
|-------------------|--|
| Size / Weight | Ø295mm x 400mm / <23Kg |
| LOS stabilisation | <50μrad rms |
| Field of Regard | 360° continuous in Azimuth, -35° to +85° in Elevation |
| Angular Velocity | >90°/s max (both axis) |
| Interface | 28Vdc (100W nominal), HD-SDI & PAL/NTSC, RS422 & Ethernet. |
| Temperature | -32°C to +55°C |

Thermal Imager

| | |
|------------------|--|
| Spectral Range | From 3.6 to 4.2 μm. |
| Detector Type | 10 x 10 μm InAsSb FPA, 640 x 512 pixels, 150K operating temp |
| Optics | x17 Continuous zoom – 28° to 1.6° |
| Cool time / Life | Typ. 150 seconds (@ 25°C) / 18,000 hours cooler life |

Daylight Camera

| | |
|--------|-----------------------------------|
| Type | Colour, Full HD 1920 x 1080 |
| Optics | x26 Continuous zoom – 50° to 2.0° |

Laser Range Finder

| | |
|-----------------------|--|
| Range Finder Type | Eye safe, Class 1 - 1.54μm wavelength |
| Range Finder Distance | 75 to 12,000m, options for longer ranges |

Laser Pointer

| | |
|-----------------|---|
| Laser Type | Class III – 830nm wavelength (NOHD according to option) |
| Characteristics | Options from 25 to 200mW, 0.5 or 1mrad divergence |



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