

EO/IR
Systems



 Smart Vision > Optrónica

Orisón-230HR

MWIR Thermal Camera

The ORISÓN-230HR is an exceptionally compact but high-performance continuous zoom MWIR multipurpose cameras for medium calibre Remote Weapons stations, armoured vehicle sights or medium range observation

Main features:

The ultimate SWaP Thermal Imager - Ø86mm x 173mm, 1.6Kg, < 8W

x17 Continuous zoom with 28° to 1.6° Field of View resulting in an exceptional Size to DRI range ratio.

Low latency video (<20ms) video in Analogue, SDI or Camera Link format.

Extremely short cool down time (<150 seconds).

Compact (Ø86mm x 173mm) & lightweight (1.7Kg).

Very high range/size ratio.

Unbeatably high cooler life (30,000 hours)

Perfect boresight and focus through zoom.

Video format PAL, SDI o Camera Link.

The ORISON-230HR available as an "open frame" camera for integration by OEMs into their camera systems or integrated into Tecnobits family of housed cameras in single, multi sensor or Gyro stabilised formats. These are part of a wider range of optronic products such as the 4 axis gyro stabilised ARGOS-15HD, the CASTOR long range MWIR cameras and ODIN LWIR uncooled cameras which have been developed for a variety of platforms including ships, aircraft, helicopters, vehicles and fixed ground applications.



Air



Land



Sea

Orisón-230HR

Electro-Mechanical

Dimensions / Weight	Ø86mm x 173mm / 1.6Kg
Mechanical Interface	3 fixing points and O Ring surface for sealing. 2 additional surfaces at 90° for mounting

Thermal Imager

Spectral Range	From 3.6 to 4.2 µm.
Detector Type	10 x 10 µm InAlSb FPA, 640 x 512 pixels, 150K operating temp
Optics	x17 Continuous zoom – 28° x 21° to 1.6° x 1.2°
FOV Change	5 programmable preset fields of view, 1.5 second change time or 5 seconds from one limit to the other.
Cooling time / Life	< 150 seconds (@ 25°C) / 30,000 hours cooler life
Algorithms	NUC, BPR, Histogram Equalisation, LACE, Edge Enhancement, Autofocus, Athermalisation, Polarity, Graphics etc..
BIT	Extensive PBIT, IBIT and CBIT.

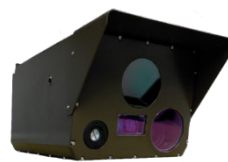
Qualification

Temperature	-40°C to +76°C
Shock & Vibration	40g @ 11ms / AECTP 400 A2 (Tactical Wheeled Vehicle)
EMC/EMI	Front Germanium Lens for RS103 shielding.

Interface

Power	12Vdc (8W nominal).
Control	RS422 & Ethernet.
Video	Digital (SD-SDI or Camera Link) or Analogue (PAL/NTSC).

All systems are 100% designed, developed, manufactured and maintained by Tecnobit in it's Spanish facility.



Leda-SC275HR



Castor-3F420HDL



ARGOS-15HD FALCATOS

tecnobit
grupo oesia

Headquarters:

Calle Marie Curie 19, 4ª planta
28521 Rivas-Yaciamadrid (Madrid), Spain
Telephone: +34 916 617 161 Fax: +34 916 619 840

Factory:

Calle Fudre, 18
13300 Valdepeñas (Ciudad Real), Spain
Telephone: +34 926 347 830 Fax: +34 926 312 896

grupooesia.com

tecnobit.es

producto@oesia.com