

Orisón-230HR

Ultra compact MWIR thermal camera with continuous zoom

Includes the state-of-the-art InAsSb sensors with pixel pitch of 10 μm and resolution of 640 x 512 pixels, it comes with continuous optical zoom of x17



Leopard tank at 4Km,
North of Germany



Oil tanker at 4.5Km, Gibraltar



Mercantile vessels at 4Km,
South coast of Spain

Electrooptic Vision Systems

Very fast cooling time (150 seconds typically) and long-life cooling system (>18,000 hours)

Perfectly focused and aligned over the entire zoom range, throughout the entire temperature range

Exceptional ranges for a camera of these dimensions

Perfect for any platform

Designed to be integrated into balls as small as 8" and robust enough for use in remote weapons systems or larger calibre weapons, the **Orison-230HR** is a very versatile thermal camera that can work perfectly in any application whether **on land, at sea or in the air**.

- Exceptional cooling motor life (> 18.000 hours).
- Extremely compact (Ø86mm x 173mm) and light (1.6 kg).
- Very fast cooling (150 secs).
- Low-latency video output (< 20ms) in PAL/NTSC, SD/HD-SDI or Camera Link.
- Very high DRI range due to its size.
- Perfectly focused and aligned throughout the zoom range.



Air



Land



Sea

Orison-230HR, is part of a wide range of optronic products for a variety of platforms including ships, aircraft, helicopters, vehicles and fixed ground applications

Orison-230HR Specifications

Thermal camera

Spectral range	From 3.6 to 4.2 μ m.
Sensor	InAsSb-based FPA with 10 μ m pixel pitch, 640 x 512-pixel resolution and operating temperature of 150K.
Optics	X17 Continuous Zoom – 28° to 1.6°, F/3.6.
Change of FOV	5 programmable fields of view, 1.5 seconds for switching between each field or 5 seconds from one end to the other.
Cooling time / Lifetime	< 150 seconds (@ 25°C) / Lifetime 18,000 hours.
Algorithms	Non-uniformity correction, defective pixel switch, histogram equalisation, local contrast enhancement, edge enhancement, autofocus, athermalisation, polarity, graphing, etc.
BIT	PBIT, IBIT and extensive CBIT.

Qualification

Temperature	-40°C a +71°C.
Shock and Vibration	40g @ 11ms / AECTP 400 A2 (Tactical Wheeled Vehicle).
EMC/EMI	Developed to comply with RS103.

Interface

Dimensions / Weight	Ø88mm x 168mm / 1.6 kg.
Power supply	12Vdc (Nominal 10W).
Control	RS422 and Ethernet.
Video	Digital (HD-SDI or Camera Link), Analog (PAL o NTSC).

The camera system is 100% designed, developed, manufactured and maintained by Tecnobit Grupo Oesía in their Spanish facilities



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