



## High Definition Smart Processed Images

 Smart Vision > Optronics

# Castor Z430HR/HD

## MWIR CAMERA

The newest member of the CASTOR range of long range high performance MWIR Thermal Imagers for naval, terrestrial and airborne applications. Now available with continuous optical zoom and the latest generation of image processing boards and algorithms.

**Compact “folded” designs with CoG control counter weights for stabilized payload applications.**

**x17 Continuous zoom from 28° to 1.6° Field of View  
Perfect boresight and focus through zoom.**

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

**ITAR Free and available with variety of Detector technologies and resolutions**

**High reliability cooler with >20,000 hour life**

**Light weight (<5.5Kg) open frame format with sophisticated image processing.**

The CASTOR-Z430HR/HD is part of a wider range of optronic products such as the ultra compact Orison MWIR camera, the 4 axis gyro stabilised ARGOS-15HD and the LEDA Multi Sensor Modules all which have been developed for a variety of platforms including ships, aircraft, helicopters, vehicles and fixed ground applications.

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



**Leda-C430  
Naval Variant**



**Orisón-230HR  
ultra compact MWIR  
Zoom Camera**



**ARGOS-15HD  
4 axis gyro stabilised  
multi sensor system**

## CHARACTERISTICS of CASTOR-Z430HR/HD

Electro-Mechanical	
Size / Weight	131mm x 223mm x 248mm / <5.5Kg
Mechanical Interface	5 mounting point i.a.w. mechanical ICD.
Thermal Imager	
Spectral Range	De 3.7 to 4.9 $\mu$ m.
Typo of Sensor	For HR - 15 x 15 $\mu$ m InSb FPA, 640 resolution For HD - 10 x 10 $\mu$ m InSb or CMT, 1024 or 1280 resolution
Optics	x17 Continuous Optical Zoom from 28° to 1.6° (1280 resolution) with up to x4 electronic continuous zoom (0.35°)
Change of FOV	1.5 seconds between preset positions.
Cooling Down Time / Life	< 7 minutes (@ 25°C) / Average life >20,000 hours
Algorithms	Non Uniformity Correction, BPR, Histogram Equalisation, Local Area Contrast Enhancement, Edge Enhancement, Autofocus, Athermalisation, Polarity, Graphics etc..
BIT	PBIT, IBIT & extensive CBIT.
Qualification	
Temperature	-40°C to +71°C
Shock & Vibration	40g @ 11ms / AECTP 400 A2 (Tactical Wheeled Vehicle)
Interface	
Power	24Vdc i.a.w. MIL-STD-1275 (25W nominal).
Control	RS422 & Ethernet.
Video	Camera Link, HD-SDI, Ethernet, PAL or NTSC.



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