

High Definition Smart Processed Images

 Smart Vision > Optronics

Castor 3F420HR/HDL MWIR CAMERA

The CASTOR range of MWIR Thermal Imagers is a family of cameras designed for medium to long range observation in naval, terrestrial and airborne applications. Wholly designed and developed by Tecnobit, all members of share the following features:

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

3 Field of View optics with x17 ratio (22° to 1.3°FOV) and perfect boresight.

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

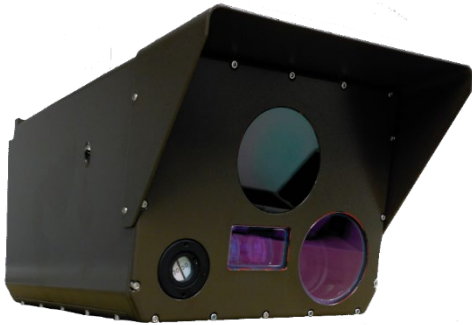
ITAR Free and available with variety of detector technologies and resolutions from 640 to 1280

Diffraction limited optics for exceptional image sharpness with “See Spot” for Laser Designator beam

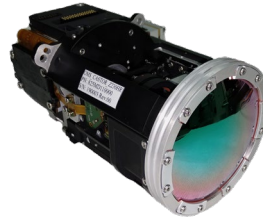
Light weight (<6.5Kg) open frame format with sophisticated image processing.

The CASTOR-3F420HR/HDL is part of a wider range of optronic products such as the 4 axis gyro stabilised ARGOS-15HD, the 2 axis FALCATOS, the LEDA Sensor Modules and ORISÓN MWIR and ODIN LWIR cameras 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 in it's Spanish facility.



Leda-SC275HR



Orisón-230HR



ARGOS-15HD

CHARACTERISTICS of CASTOR-3F420HR/HDL

Electro-Mechanical

Size / Weight	131mm x 223mm x 248mm / 5.8Kg
Mechanical Interface	5 mounting point i.a.w. mechanical ICD.

Thermal Imager

Spectral Range	De 3.7 a 4.9 μ m.
Typo of Sensor	For HR - 15 x 15 μ m InSb FPA, 640 x 512 pixels For HDL - 10 x 10 μ m InSb FPA, 1024 x 768 pixels
Optics	3 optical FOV - 21.8° x 12.3°, 4.55° x 2.56° y 1.3° x 0.73°, F/3.4
Change of FOV	0,7 seconds between any FOV.
Cooling Down Time / Life	< 7 minutos (@ 25°C) / Average life 10,000 hours
Algorithms	Non Uniformity Correction, Bad Pixel Replacement, Histogram Equalisation, Local Area Contrast Enhancement, Edge Enhancement, Autofocus, Athermalisation, Polarity, Graphics etc..
BIT	PBIT, IBIT y CBIT extensiva.

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	Digital (Camera Link) or Analogue (PAL/NTSC).



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