

 Smart Vision > Optronics

Leda S275HR

Sensor Modules

The LEDA-S275HR is a member of a family of sensor modules consisting of a rugged and sealed housing into which a single or several of Tecnobits Open Frame thermal and daylight cameras and other sensors such as lasers are integrated. Designed specifically for 12.7mm Remote Weapon Stations applications, it is also suitable also observation systems on Pan and Tilts platforms.

Medium Range MWIR and Visible cameras with Laser Range Finder in protective housing.

Fully qualified for Ground Mobile or Fully qualified for Ground Mobile or Maritime applications.

Sophisticated suite of Image Processing algorithms for low latency video (<20ms) in SDI or Giga Ethernet formats.

Perfect alignment and focus through zoom over complete temperature range

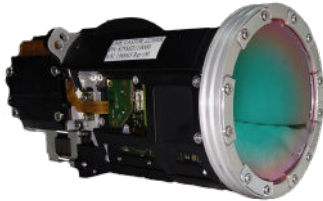
MWIR camera available in 640 or 1024 resolution with 2 FOV optics. Full HD resolution Daylight camera.

ITAR Free with options for wipers and window heaters for de-icing

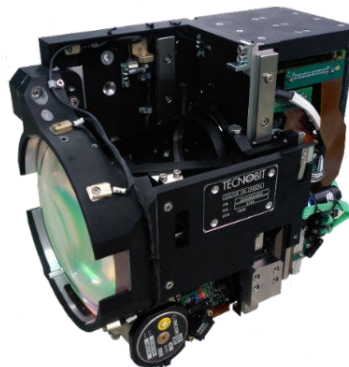
The sensor module can be controlled through either RS422 or Ethernet ports and has 2 digital SD-SDI video outputs.

The **Leda-S275HR** is part of a wider range of optronic products developed by Tecnobit for a variety of platforms including ships, aircraft, helicopters, vehicles and fixed ground applications. All Castors have been designed to be integrated into other systems such as 4 axis gyro stabilised balls (such as Tecnobits Argos), Pan and Tilt Observation systems and Remote Weapon Station,

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



Orisón-230HR



Castor-3F420HDL



LEDA-C420HR

CHARACTERISTICS Leda S275HR

IR Camera	
Wavelength	3.7 to 4.9 μm (MWIR)
Detector Type	15 μm pitch 640 x 512 or 1024 x 768 pixel InSb Focal Plane Array
NETD	<30 mK
Cooling Time	< 7 minutes
Optics	F/4.0 optics, 2 Fields of View 2.0° & 12.0° + x2 and x4 digital zoom
Alignment of FOVs	Less than 2 pixels
FOV change time	Less than 0.7 seconds.
Daylight Camera	
Wavelength	0.4 to 1.0 μm (Visible & NIR)
Detector Type	3.45m pitch 1920 x 1080 pixel CMOS Focal Plane Array
Fields of View	Continuous optical zoom 40° to 2° + continuous digital zoom to x4
Alignment of FOVs	Less than 5 pixels
FOV change time	Less than 3 seconds.
Laser Range Finder	
Wavelength	1.55 μm Laser Class I (IEC 60825-1:2014)
Measurement	10 m to 14,000m (Range) / <1m (Accuracy)
Range	>4.5Km (Nato Target, 2.3 x 2.3m, albedo 20%, 20Km visibility)
System	
Dimensions/Weight	203mm (h) x 292mm (w) x 405mm (l) / <15Kg
Alignment Sensors	Less than 5 pixels
Control	RS422 or Ethernet
Video Output	Digital Video – SD-SDI, Option for Giga Ethernet or Analogue (PAL/NTSC)
Power	28Vdc to MIL-STD-1275 < 50W including window heating

Target Range data (DRIs) available on request.



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