

LEONARDO ELECTRONICS

# ATTILA D

## LONG RANGE COMMANDER PANORAMIC SIGHT



ATTILA D is a commander panoramic aiming sight with day/night high performances in all weather conditions, able to detect, identify and fire on the move against land and aerial targets.

Three-axis gyro-stabilization allows a true “fire-on-the-move” capability, with the same first round hit probability of a Gunner Sight, whether on static or moving targets.

ATTILA D is compatible with all Fire Control Systems (FCS) and provides a full hunter-killer capability.

Being able to aim up to +60°, the sight is suitable also for urban scenario against high elevation targets.

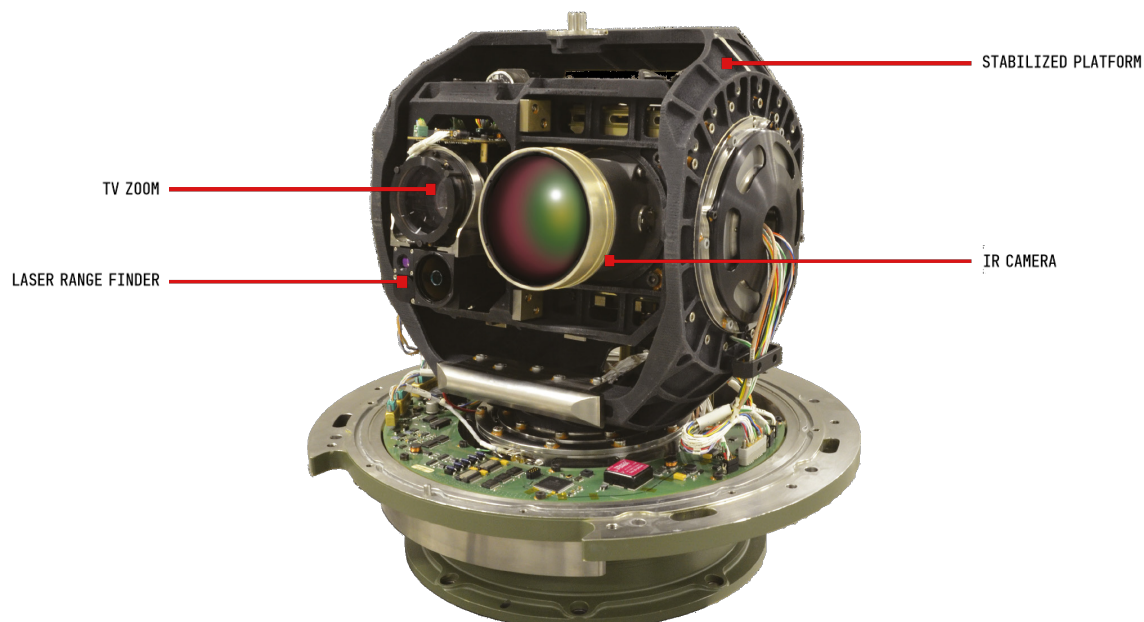
ATTILA D incorporates the company’s latest thermal imaging modules, MWIR proprietary detectors, a high performance colour HD TV, an eye-safe Laser Range Finder.

Completely digital system, designed in compliance with the most modern NATO-VGA architecture that puts it at the forefront in the production of suites dedicated to the multiple vehicle platforms existing on the market.

The use of standard digital interfaces simplifies integration and configuration within an Observation System.

### KEY BENEFITS

- 3rd Generation MWIR Thermal Imager
- Automatic 360° panoramic scanning with motion detection
- High accuracy three axis primary stabilization
- Easy integration on existing and new vehicles
- Advanced Embedded BITE for effective Logistic Support
- ITAR Free



## TECHNICAL SPECIFICATIONS

### SIGHT

<b>Elevation range</b>	-20° to +60°
<b>Azimuth range</b>	360° continuous
<b>Stabilization accuracy</b>	Elevation : < 0.05 mrad Azimuth : < 0.05 mrad
<b>Rotation speed</b>	1.2 rad/s
<b>Elevation speed</b>	1.2 rad/s
<b>Maximum acceleration</b>	2 rad/s <sup>2</sup>

### INFRARED CAMERA

<b>Detector</b>	CMT 640x512 pixel
<b>Bandwidth</b>	3-5µm (MWIR)
<b>Optic lenses:</b>	zoom continuous from 2.4° to 24° (10x) predefined position (NFoV) 2.4° x 1.9° predefined position (WFoV) 10° x 8°
<b>Digital zoom</b>	4x
<b>Digital Video Processing</b>	GLACE® (*)

### DAY HDTV

<b>Detector</b>	1280 x 1024 Color CCD
<b>Resolution</b>	1.3Mpixel
<b>Optic lenses:</b>	zoom continuous from 2.4° to 24° (10x) Predefined position (NFoV) 2.4° x 1.9° Predefined position (MFoV) 10° x 8° Predefined position (WFoV) 24° x 19°
<b>Digital zoom</b>	4x

### LASER RANGEFINDER

<b>Eyesafe</b>	1.54µm (Class 1M)
<b>Range</b>	100m to 12500m
<b>Pulse Rate</b>	10ppm (1Hz burst)
<b>Accuracy</b>	+/-5m

### USER INTERFACE

<b>Video</b>	HD-SDI, Analogue
<b>Controls</b>	CAN BUS, SERCOS, RS/422, Ethernet
<b>Operating voltage</b>	28VDC (MIL STD 1275B)

### SYSTEM ADVANCED PROCESSING

Picture in picture (mixing Day TV and IR camera images)  
Automatic video tracker  
Image enhancement (Edge, Glace, DE-Hazing, De-Fog)  
Stadimetric and ammo's ballistics scales  
Advanced Built-in test equipment  
Auto Calibration and functional test at start up

(\*) GLACE™, is a digital processing suite operating on the raw, uncompressed data of the detector, that locally analyzes the image to obtain the best level of contrast and brightness for each area, avoiding saturation and restoring the missing details that are usually lost during video compression.

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