

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.

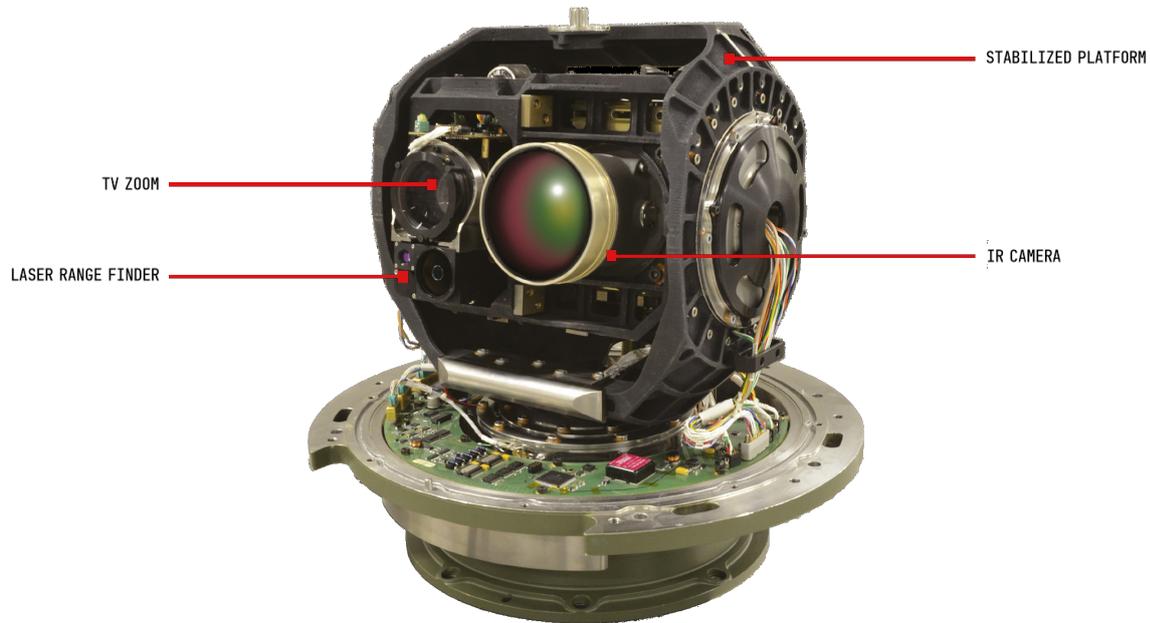
ATTILA D incorporates the company’s latest thermal imaging modules, MWIR proprietary detectors, a high performance colour HD TV, an eye-safe Laser Range Finder.

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

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

INFRARED CAMERA

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

DAY HDTV

Detector	1280 x 1024 Color CCD
Resolution	1.3Mpixel
Optic lenses:	zoom continuous from 2.4° to 24° (10x) Predefined position (NFoV) 2.4° x 1.9° Predefined position (MFoV) 10°x8° Predefined position (WFoV) 24° x 19°
Digital zoom	4x

(*) 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.

LASER RANGEFINDER

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

USER INTERFACE

Video	HD-SDI, Analogue
Controls	CAN BUS, SERCOS, RS/422, Ethernet
Operating voltage	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

For more information:

infomarketing@leonardo.com

Electronics Division

Via delle officine Galileo 1
50013 Campi Bisenzio (FI) - Italy
T +39 055 89501
F +39 055 8950600



leonardo.com

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