

LEONARDO ELECTRONICS

JANUS D-L

HIGH PERFORMANCE
PANORAMIC SIGHT



JANUS Digital-Land is a modular dual axis gyro-stabilized sight for MBTs and AFVs, designed for day/night panoramic surveillance and target tracking in a rugged and compact suite. Being able to aim up to +70°, the sight is suitable also for urban scenario against high elevation targets.

It combines both medium and long range panoramic sights in a rugged, self-contained, compact stabilized package. JANUS D-L incorporates the company's high performance infrared, staring, focal plane array sensor technology for high resolution night vision and a over high performance color FHD TV with Laser rangefinder.

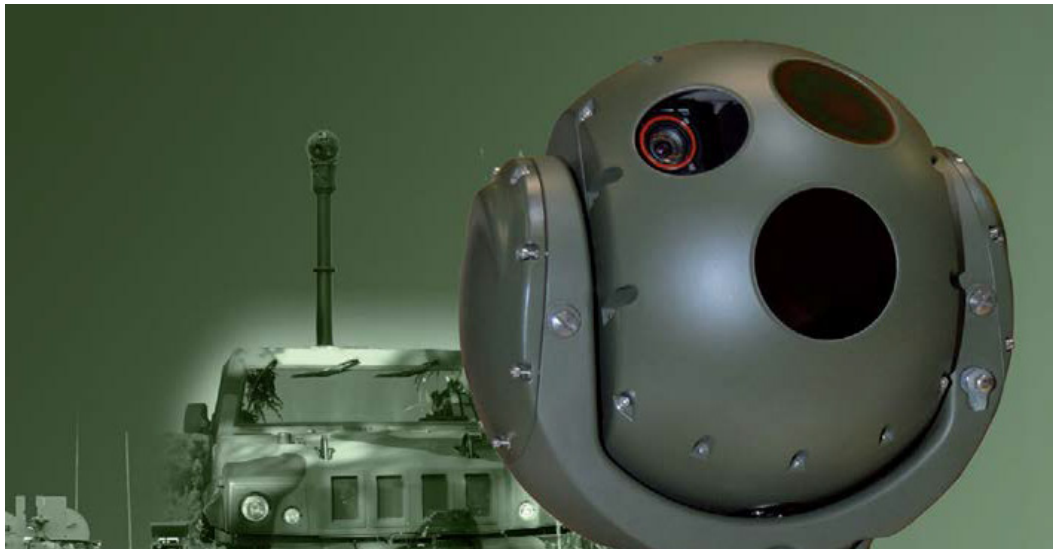
Completely digital system, designed in compliance with the most modern NATO-VGA architecture that puts it at the forefront in the production of suites dedicated to the multiple vehicle platforms existing on the market. The use of standard digital interfaces simplifies integration and configuration within an Observation System.

APPLICATIONS

- Land situation awareness
- Day and night surveillance
- Search and rescue
- Border and coastal surveillance
- Panoramic Sight for Turrets

KEY BENEFITS

- 3rd Generation MWIR Thermal Imager
- Automatic 360° panoramic image scanning with motion detection
- Air and ground target tracking
- Easy integration on existing and new vehicles
- Advanced Embedded BITE for effective Logistic Support
- ITAR Free



TECHNICAL SPECIFICATIONS

SIGHT

Elevation range	-20° to 70°
Azimuth range	360° continuous
Stabilization accuracy	Elevation:< 0.1 mrad (with electronic refinement) Azimuth:< 0.1 mrad (with electronic refinement)
Rotation speed	1.5rad/s
Elevation speed	1.0rad/s
Maximum acceleration	2 rad/s ²

INFRARED CAMERA

Detector	CMT 640x512 pixel
Bandwidth	3-5µm (MWIR)
Optical zoom (10x)	Continuous zoom from 2.4° to 24°
Digital zoom	Continuous up to 4x
Digital Video Processing	GLACE® (*)

DAY HDTV

Detector	1920 x 1280 Color CCD
Resolution	2.13Mpixel
Optic zoom	Continuous 1.7° to 42°
Digital zoom	Continuous up to 12x

LASER RANGEFINDER

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

USER INTERFACE

Video	HD-SDI, GIGA Ethernet
Controls	CANBUS, SERCOS, RS/422, Ethernet
Operating voltage	28VDC (MIL STD 1275 B)

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.

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

This publication is issued to provide outline information only and is supplied without liability for errors or omissions.
No part of it may be reproduced or used unless authorised in writing.
We reserve the right to modify or revise all or part of this document without notice.

2023 © Leonardo S.p.A.

MM07832 04-23

