



LUCANUS

BOSCAROL GROUP
TIMTEC 
TIMTEC DEFENSE

TARGET SENSE AND TRACK SYSTEM

LUCANUS 400 Series

*gyro-stabilized electro-optical infrared (EO/IR)
multisensor gimbal device*

-  RUGGED DESIGN
-  RF/EMI/DEW PROTECTED
-  MARINE IP66/IP67
-  -40°C to +55°C AMBIENTAL
-  ON-BOARD MULTI-TARGET DETECTION
-  ON-BOARD OBJECT TRACKING
-  ELECTRONIC VIDEO STABILIZATION
-  FULLY CUSTOMIZABLE



LUCANUS 400 Series - Maritime

APPLICATIONS

RECONNAISSANCE
SURVEILLANCE
MILITARY APPLICATIONS
FORCE PROTECTION
COUNTER PIRACY
MARITIME LAW ENFORCEMENT

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FEATURES

Rugged gimbal design
RF/EMI/DEW Protected* , MARINE IP66/67
Electronic, Optical, Mechanical and Software image stabilization,
AI Multispectral image enhancing beyond optical limitations,
Automatic on-board multi-target detection,
Automatic on-board object tracking,
Moving target indicator, Moving map software, Geo-Location,
Picture-in-picture, Roll correction,
On-board IMU and GPS, H.264 & H.265 Encoding,
Simplified integration, Interface flexibility,
No external processing units,
Fully customizable (end-user sensor option)
Various colours (and custom) camouflages

THERMAL IMAGER #1

Sensor type	Cooled MWIR MCT 6 µm
Resolution	1280 x 960 pixels
FOVs	25° to 2.4°
Zoom ratio	10x continuous optical + 32x digital
Sensor option #2	MWIR cool; 640 x 512; 35.5° to 1.8°; 20x + 32x

DRI DISTANCES [NV-IPM] FOR IR #1

Human target	20.0, 4.4, 3.0 km
Vehicle target	28.2, 17.3, 12.1 km

HD THERMAL IMAGER #2

Sensor type	LWIR VOx 12 µm
Resolution	1920 x 1200 pixels
FOVs	49.5° x 32.1° (26° x 16°, 15° x 9.5°)
Zoom ratio	32x digital

HD THERMAL IMAGER #3

Sensor type	SWIR InGaAs 0.9 - 1.7µm
Resolution	1280 x 1024 pixels
Pitch	16 µm
FOVs	16.2° x 12.96° (user custom lens)

COLOR HD CAMERA #3 A&B

Sensor type	Color CMOS (global shutter 36x)
Resolution	1920 x 1080 pixels
FOVs	66.35° to 1.9°
Zoom ratio	36x continuous optical + 32x digital

COLOR HD CAMERA #4 Telescope

Sensor type	Color CMOS
Resolution	1920 x 1080 pixels
FOVs	59.0° to 0.8°
Zoom ratio	60x continuous optical + 32x digital

GIMBAL SPECIFICATION

Azimuth range	360° continuous
Elevation range	360° continuous
Resolution	< 30 µRad
Stow	Actuated locking

LASER DESIGNATOR

Output pulse energy	> 30 mJ
Beam divergence	< 0.3 mRad
Wavelength	1064 nm
Classification	Class 4

End-user customizable to any wavelength; Designators available.

SYSTEM INTERFACES

Digital video	Ethernet
Data and control	RS232, Ethernet
GPS antenna connector	SMA

POWER REQUIREMENTS

Voltage	22 - 28 VDC
Consumption	260 W typical, 800 W max

OVERVIEW

Size	400 mm typical diameter [15.5"]
Weight	40 kg [66 lb] max
Operating temperature	-40 °C to +55 °C
Rating	IP66, IP67*



Fog, Haze & Low Visibility Color day camera



SWIR - See through Fog (same image as above)

LUCANUS 401M SPECIFICATION

G05A07MKLFLAA1A-EN / 2025-01



LUCANUS 401M [G05#A07 / 2025-01]
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TIMTEC Defense Ltd.
Goriška cesta 6c, SI-5271 Vipava, Slovenia, Europe

www.timtec.eu | sales@timtecdefense.eu



*all products shown are for illustration purpose only, actual product may vary due to production enhancement *limited immersion time, option.