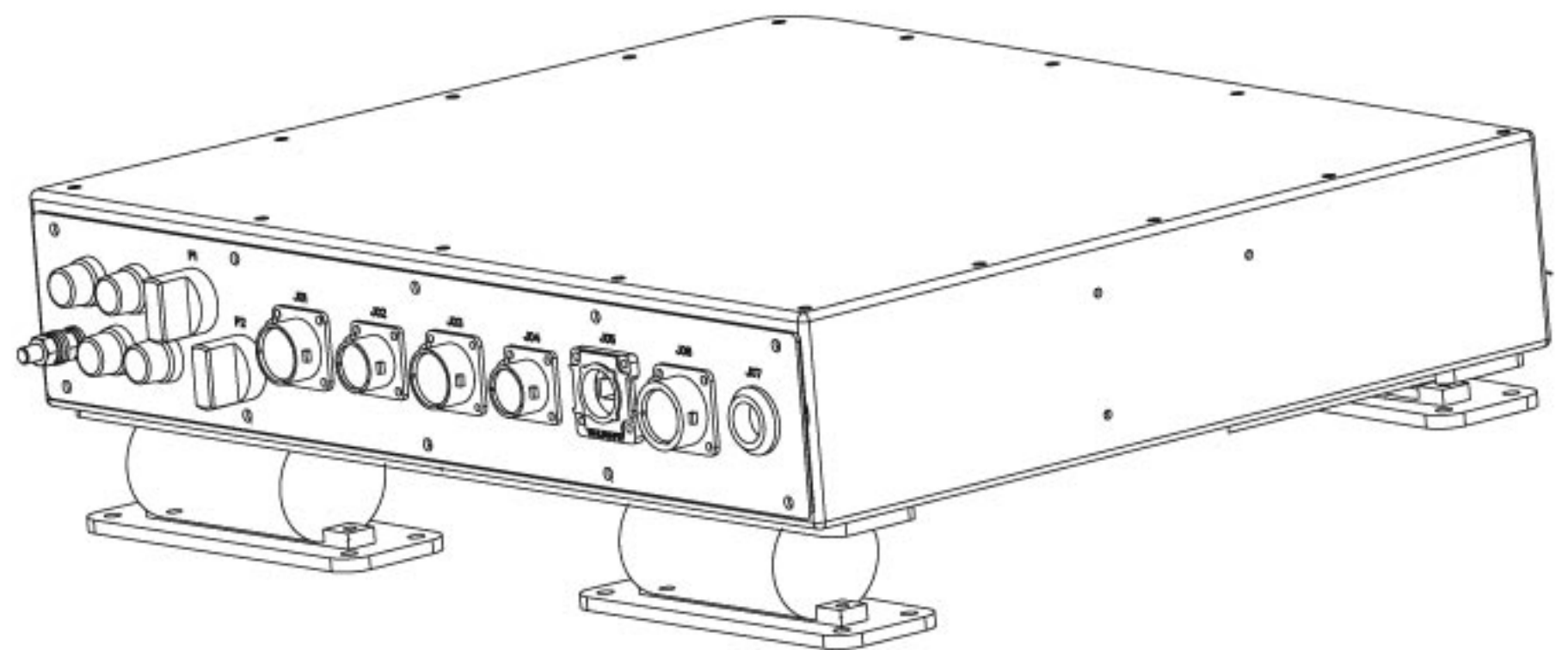


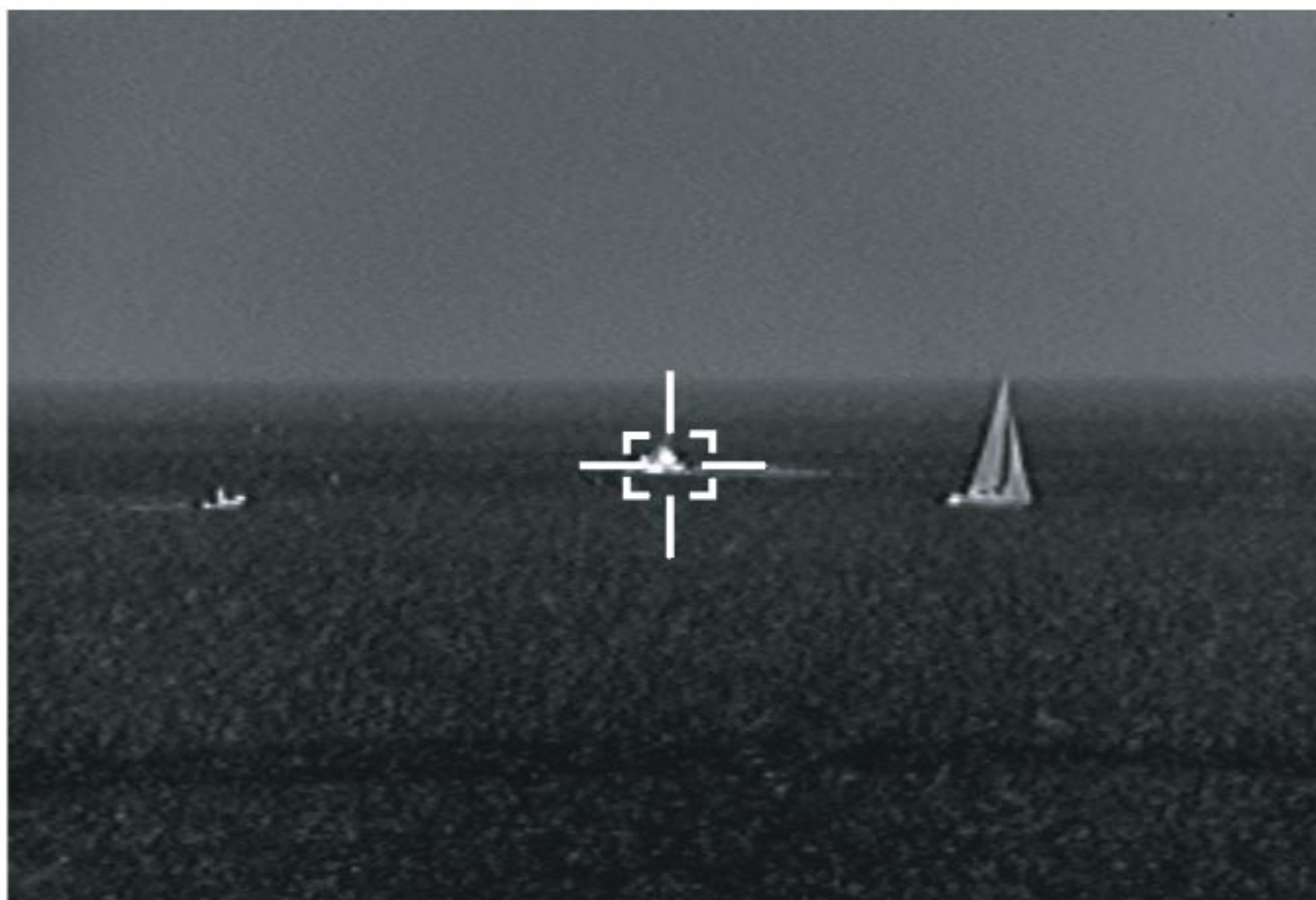
# VIDEOTRACKER VTU-110

mod.

advanced  
image  
processing



- Software based (upgradable)
- Multiple analog video inputs
- RS 232 and/or 422 interfaces
- Multiple algorithm capability
- Intelligent Breaklock and Re-acquisition algorithms
- PAL/CCIR (60/50Hz) or NTSC/RS170 operation
- Military regulation STD-810, STD-2036a, STD-1472, STD-1472, STD-461, STD-108E, HDBK-454 and civilian regulation RINA-IEC-68.2.1-2-3-27



Device for automatic tracking of the targets acquired to electro-optical surveillance system (EOSS)



## ELECTRO-OPTICAL SURVEILLANCE SYSTEM (EOSS)

GEM Elettronica introduces the new optronic systems series EOSS, especially designed for the most important on-board applications such as SAR (Search-and-Rescue), day/night electro-optical surveillance etc.

**Functionality/Modes**

> **Detection**

Single target detection modes available

Detection Window

- Position
- Movable to any FoV position
- Size
- Variable from 4% to 90% of the FoV with manual or adaptive modes (dependent upon selected algorithm)

> **Target Tracking**

Track algorithm selectable from:

- Centroid
- Correlation

Track Window

- Position
- Automatically controlled to follow target to any FoV position
- Size
- Variable from 4% to 90% of the FoV with manual or adaptive modes (dependent upon selected algorithm)
- Selectable track pre-processor providing statistical target enhancement with automatic, bipolar, positive and negative threshold options.

> **Boresight**

Reference for the determination of the track errors. Movable for offset tracking.

> **Breaklock/Coast**

Automatic two stage track-loss detection and re-acquisition

> Hour meter for life time counting

**Electrical Interface**

> **Video Inputs**

- Composite Video 1.0V<sub>p-p</sub>, 625/525 Line, CCIR, PAL or RS170, NTSC
- Differential pairs
- Triaxial 75 Ω

> **Video Outputs**

- Analog Outputs
- Composite video 1.0 V p-p differential pairs

> **Control Interfaces**

- Serial Interfaces RS232 and/or RS422
- Ethernet

> **Power Requirements**

- Supply voltage 115/220 Vac
- Power < 150 W

**Mechanical**

> **Size**

356 x 436 x 82 mm

> **Weight**

7.6 Kg

> **Connectors**

MIL-MS-3470 series

**Environmental (proven)**

> **Temperature**

- Operating 0°C to +50°C
- Storage: -25°C to +70°C
- RH: Dump heat +40° C 93% UR
- EMI:
- MIL-STD-461E CE102
- Conducted emission 10 KHz : 10 MHz
- MIL-STD-461E RE102
- Radiated emission, electric field 10 KHz : 18 GHz

> **Vibration**

- RINA: 1.0 mm from 2 to 13.2 Hz, 0.7 g from 13,2 to 50 Hz

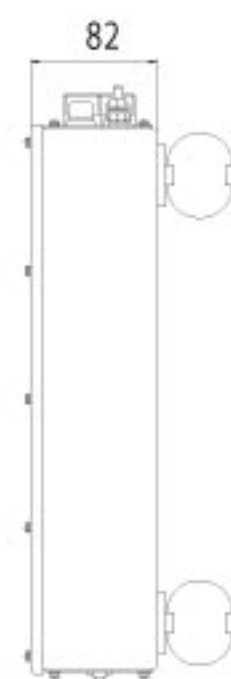
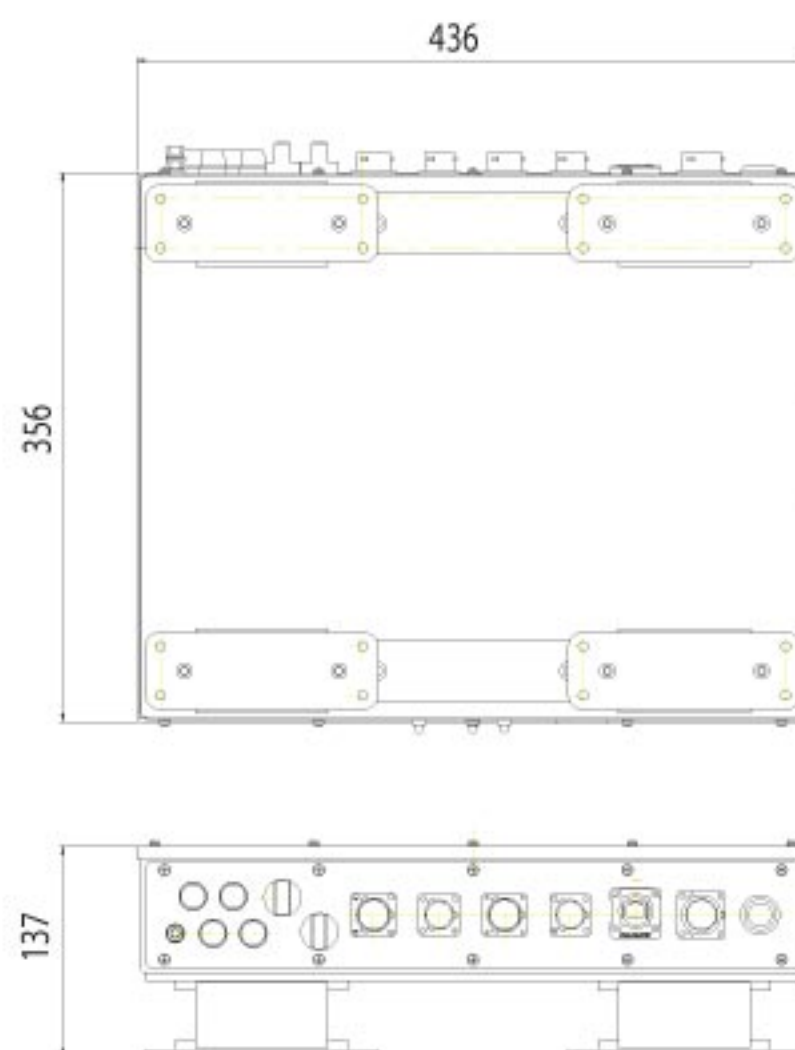
> **Shock**

30g 11msec. Half sinusoidal

> **Waterproof**

MIL-STD-108 "Driproof 15°"

**Outline drawing**



(dimensions in mm)



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