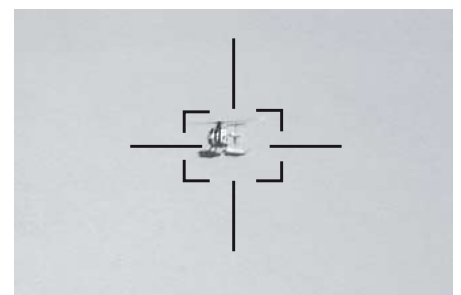
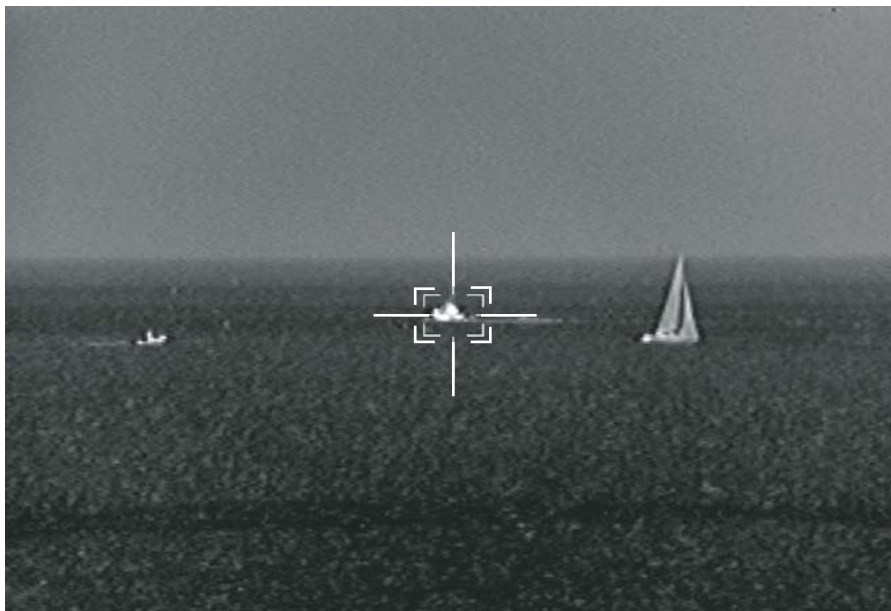


mod.

VIDEO TRACKER VTU-110

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-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 land and sea 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 1.0Vp-p,
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% RH

> 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

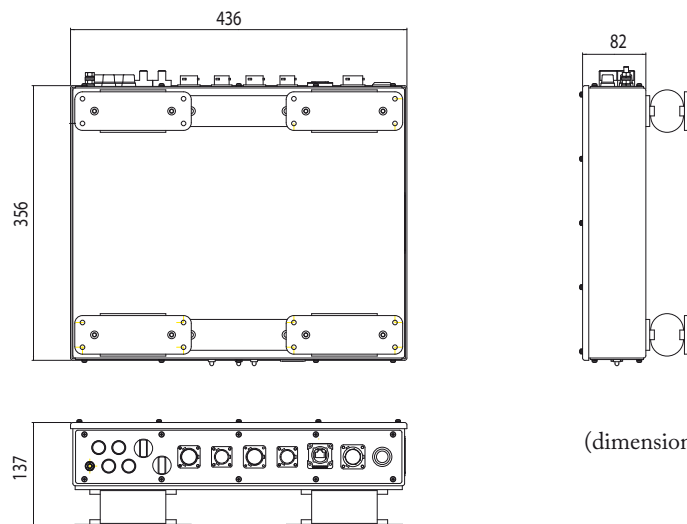
> Shock

30g 11msec. Half sinusoidal

> Waterproof

MIL-STD-108 "Dripproof 15°"

Outline drawing



(dimensions in mm)



GEM Headquarter and R&D
Via Amerigo Vespucci, 9 - P.O. BOX 212
63074 San Benedetto del Tronto (AP) - ITALY
Tel. +39 0735 - 59051 - Telefax +39 0735 - 590540

GEM Technical Research Institute
Via Piane Tronto, 50
64010 Controguerra (TE) - ITALY
Direct Phone: +39 0735 590411 Fax +39 0861 809927

marketing@gemrad.com; www.gemrad.com

This brochure should not be considered a contractual offer to sell. The specifications given herein may be changed by the manufacturer, GEM elettronica S.r.l., without notice.

