

ELOP MicroCoMPASS™

Micro Compact Multi-Purpose Advanced Stabilized System – UAV



General

The MicroCoMPASS is the latest member of the battle-proven CoMPASS stabilized EO payload family, in use worldwide.

Features:

- Ultra-lightweight, extremely compact design, high stabilization level optimized for installation on unmanned platforms
- Cutting-edge electro-optical technology, delivering superb continuous zoom night and day observation and surveillance capabilities
- Single LRU integrating four EO elements: large-format continuous zoom thermal imager, zoom color TV camera with low light mode, eyesafe laser rangefinder (ELRF) and laser target illuminator
- Equipped with 3 gimbals which provide the MicroCoMPASS™ high stabilization level



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Applications

- Surveillance and reconnaissance
- Force and convoy protection
- Shipboard operation capability
- Border and coastal surveillance
- Law enforcement
- Strategic infrastructure security

Main Advantages & Features

- Stabilized real-time video
- Long-range continuous zoom thermal imager and zoom color CCD camera
- Automatic tracking of observed targets
- Lightweight, compact design with low power consumption
- Simple and straightforward installation utilizing single LRU configuration and minimum cabling



Technical Data

System

- Diameter 8.2"
- Weight <9 Kg
- Angular coverage
 - Azimuth N x 360°
 - Elevation +30° to -85°
- Environmental conditions MIL-STD-810F
- Video output standard PAL, NTSC

Thermal Imager

- FLIR Cooled 3rd generation 3-5µm FPA detector 640 x 512
- FOV (continuous zoom)
 - Narrow 2.5° x 2°
 - Wide 17.5° x 14°
 - Electronic zoom X3

Day Channel

- Color TV camera 1/4" CCD detector
- FOV (continuous zoom)
 - Narrow 1.7° X 1.2°
 - Wide 42° x 32°
 - Electronic zoom X12

Laser

- Laser target illuminator 830 nm (NVG compatible)
- Eyesafe laser range finder (ELRF)
 - Laser wavelength 1.54µm
 - Repetition rate 20 ppm continuously
- Laser designator (optional)

External Interface

- RS 232/422, ETHERNET



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