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 MicroCoMPASSTM high stabilization level

Elbit Systems™ ISTAR & EW

MicroCoMPASS

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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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