

MicroCoMPASS™

Masted Micro Compact Multi-Purpose Advanced Stabilized System



General

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

- Ultra-lightweight, extremely compact payload, one man portable mounted on ground/vehicle mast

- Cutting-edge optical technology delivers superb day and night ISTAR capabilities, even in harsh weather conditions

- Single LRU Integrating 4 major EO elements- thermal imager, color TV camera laser target illuminator, ELRF and optional Laser Designator

- Meets even the most severe environmental requirements, including heavy winds

- Reliable system, easy maintenance

- MicroCoMPASS™ is operated by the Miniature Observation Remote system MDVR 900C



Elbit Systems™

ISTAR

MicroCoMPASS

Masted Micro Compact Multi-Purpose Advanced Stabilized System

Main Advantages & Features

Provides stabilized LOS and easy operational control

Easy to carry and deploy full observation kit

- <9 Kg Payload
- <20 Kg Mast
- Fast Deployment and Repack (<3 min)

Total solution for rapid field deployment:

- Display
- Joystick
- DVR
- Energy (Standard military batteries, small generator vehicle external power)

Optimized to operate in all weather conditions

Remote operation increases safety and hides operator location

- 30-50m cable



Technical Data MicroCoMPASS

System

Diameter	8.2"
Weight	9 Kg
Angular coverage	
- Azimuth	N x 360°
- Elevation	+30° to -90°
Environmental conditions	MIL-STD-810
Video Output standard	PAL, NTSC

Thermal Channel

FLIR	Cooled 3rd Generation
	3-5 μ m FPA
FOV (continuous Zoom):	
- Narrow	2.5 x 2
- Wide	17.5 x 14
- Electronic Zoom	X3

Uncooled Thermal Imaging Camera (Optional)

Miniature Observation Remote system

Dimensions 41 X 86 X 126 mm
Weight 0.52 Kg (without DVR), 1.3 Kg (with DVR)

Day Channel

Color TV Camera 1/4", CCD Detector
(Continuous Zoom)

FOV

- 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:	1.54 μ m (Eyesafe)
- Repetition rate:	20 ppm continuously
- Minimum range:	50 m
- Maximum range:	3000 m

(target and

atmosphere)

Laser Designator (optional)

External Interface

RS 232/422, ETHERNET



Elbit Systems Ltd.

Advanced Technology Center, P.O.B 539, Haifa 31053, Israel

E-mail: istar@elbitsystems.com www.elbitsystems.com

Follow us on   