



EOSS-300



EOSS-300/U



EOSS-450



EOSS-450/RF

BALL-SHAPE **EOSS** SERIES

ELECTRO-OPTICAL SURVEILLANCE SYSTEM

GENERAL DESCRIPTION

The GEM elettronica EOSS series matches surveillance or other shore-based system requirements of day/night optical surveillance.

Each system includes the stabilized turret hosting advanced optronic TV and IR cameras for h 24 no-stop operations.

The optional videotracker unit is available to accommodate closed-loop optical tracking.

Interface with external radar for target designation is available on request.

Depending on customers' requirements, the suitable configuration can be easily identified.

FEATURES

- h 24 passive detection, designation, identification and tracking of surface and low-speed air targets
- Fully automatic search for reducing operator workload in target detection and acquisition tasks
- Stabilization against mast/infrastructure motion
- Can be remotely driven

APPLICATIONS

- Vessel Traffic System (VTS), Vessel Traffic Management & Information Systems (VTMIS)
- Coastal Surveillance & Security
- h 24 optical functions for search and surveillance
- Homeland Security

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ORDERING INFORMATION

	Turret aspect and type of display	Optronic turret * (see note)	Stop system	TV camera: Type of detector	450 TVL color camera: Field of view	TV camera: lens and zoom ratio	Environmental conditions
EOSS-300	Ball-shape, 19" LCD	a) 2 MEMS gyros b) $\pm 40^\circ$ c) Nx360° d) $> 80^\circ/s$ e) 0.2 mrad (1 sigma)	Not needed due to the physical shape	1/4" CCD	HFOV: Wide 57° Narr. 1.7°	3.4:122 mm 36x F1.6:F4.5	-10°C:+55°C ext 0°C:+50°C int
EOSS-300/U							
EOSS-450	Ball-shape, 15" LCD	a) 2 FOG gyros b) Nx360° c) Nx360° d) 100°/s e) 0.05mrad		1/3" CCD	HFOV: Wide 46° Narr. 1.6°	5.5:187 mm 34x F1.8	
EOSS-450/RF							

Note: Optronic turret: a) number of gyroscope - b) elevation sector - c) azimuth sector - d) slewing rate - e) stabilization accuracy

SUPPLY COMPOSITION

- Electro-Optical stabilized Turret with TV and cooled or uncooled IR cameras
- Rugged Motion Control Unit
- Installation kit
- Technical manual of the system in English language
- Packing list

OPTIONS

- Separate videotracker unit for closed-loop optronic tracking
- Depending on installation requirements, cable lengths are delivered in accordance with Buyer's instructions
- Customization versus specific requirements can be evaluated in terms of cost-effectiveness
- Operator desk consisting of:
 - display unit
 - keyboard/joystick desk unit

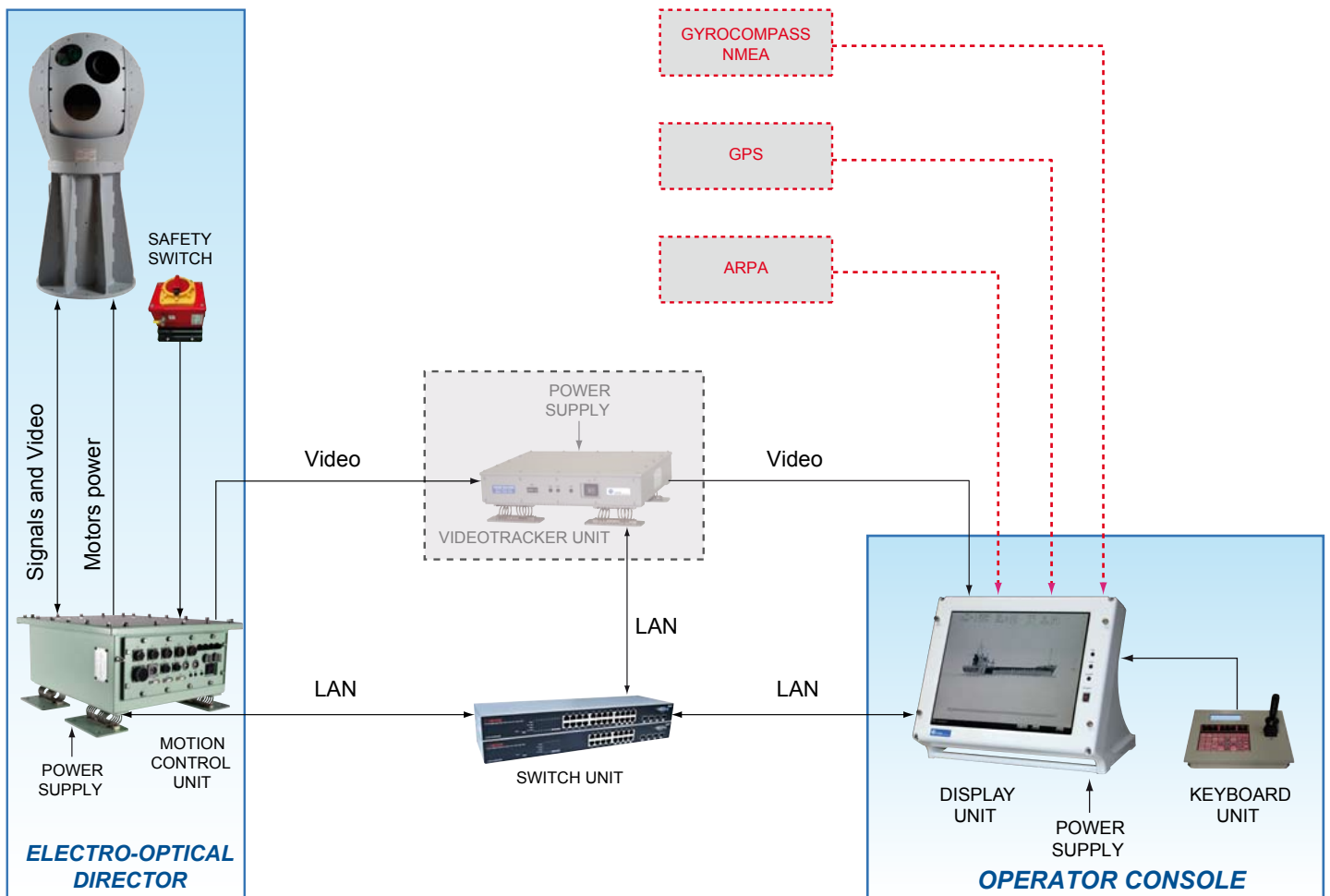


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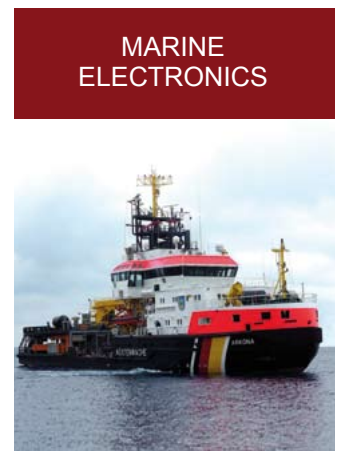
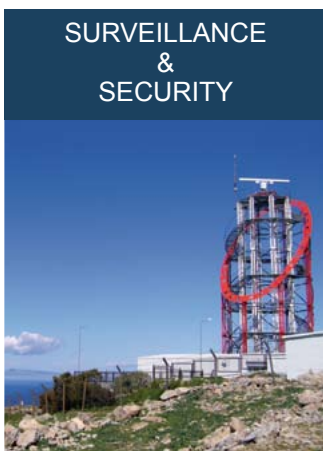
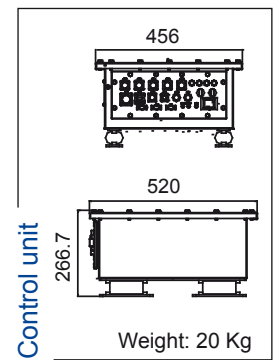
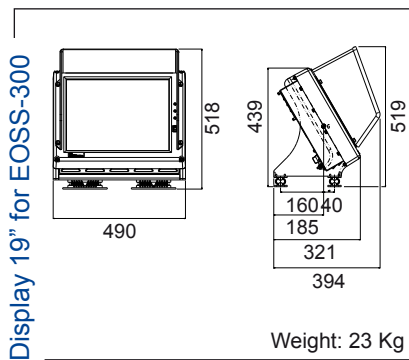
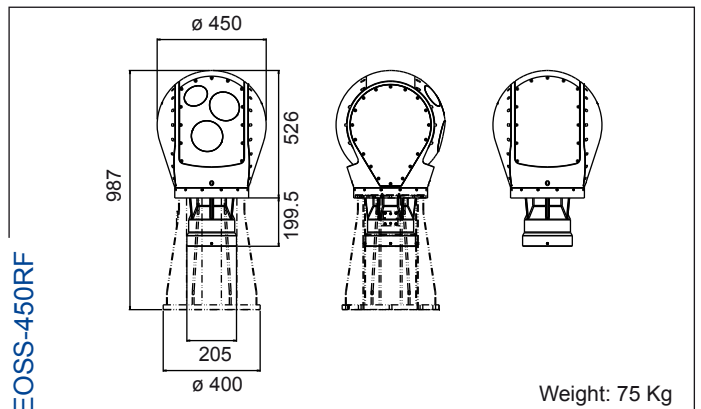
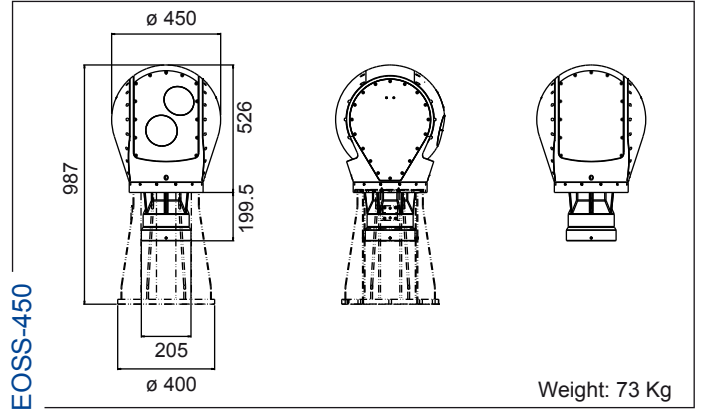
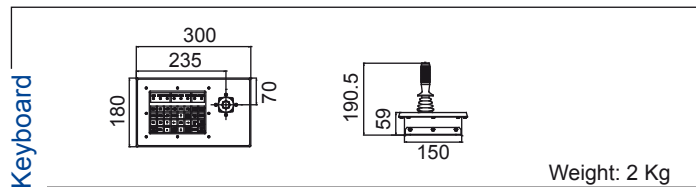
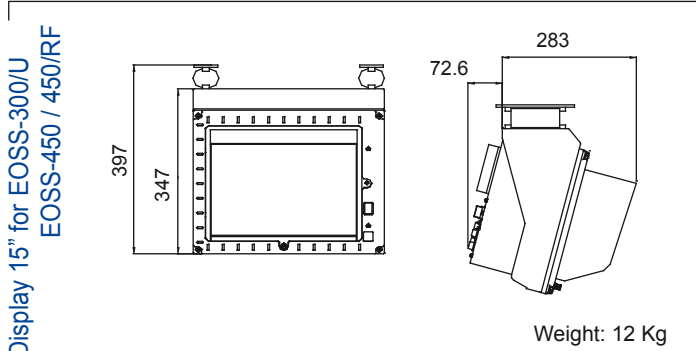
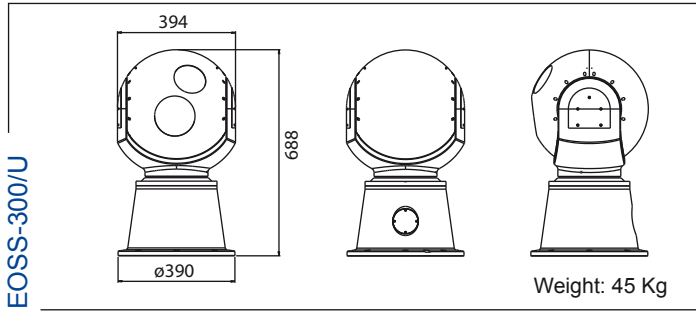
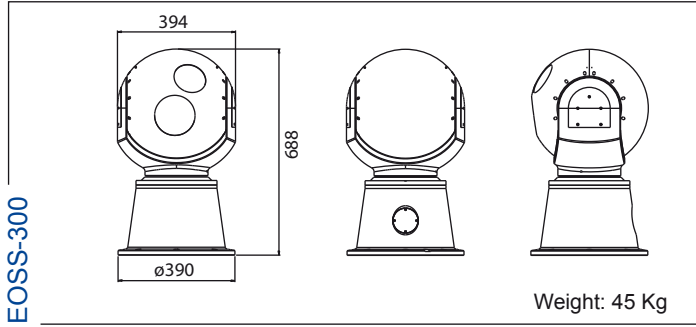
	<i>IR Detector, spectral bandwidth and resolution</i>	<i>IR camera HFOV</i>	<i>NETD</i>	<i>Laser Range Finder * (see note)</i>	<i>Video Tracker</i>	<i>Power absorption</i>	<i>Interfaces to the external world</i>
EOSS-300	Cooled, InSb 3-5 micron 320x240	Wide 9° Narr. 3°	< 35mk	Available on request	Option	24 VDC 1000VA peak	RS-422 ETHERNET
EOSS-300/U	Uncooled Vox 8 – 14 μm 320x240	Wide 5.7° Narr. 2.8°	< 50mk				
EOSS-450	Cooled, InSb 3-5 micron 640x480	Wide 11° Narr. 2.2° E-Narr. 1.1°	< 20mk	a) 1570 nm b) 100 m to 20,000 m c) ± 5 m d) 5 m e) 1-3 pps		at 220 Vac, 50Hz, one phase, 1000 VA peak	
EOSS-450/RF							

Note: Laser Range Finder: a) wavelength - b) range measurement - c) range accuracy - d) target resolution - e) repetition rate

GENERAL DIAGRAM OF CONNECTION



OUTLINE



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.

