



SAAB



EOS 500

Electro-optical Fire control director

EOS-500 is a light-weight stabilised optronic tracking system designed for use on all naval ships. It is an excellent choice for observation, target identification and fire control.

Precision & Stabilisation

EOS-500 includes a gyro stabilised platform with three electro-optical sensors. The modern modular design allows easy upgrades with new sensors.

The high quality stabilisation and advanced TV- and IR-cameras and Laser Range Finder provide the operators with an efficient solution for observation, target identification, gun fire and missile laser guidance.

Tracking

EOS-500 is capable of tracking all types of threats, including sea skimming missiles.

The advanced Saab video tracker uses simultaneous input from the TV- and the IR-camera in a data fusion process.

EOS-500 provides automatic detection of up to four concurrent targets, thus allowing the operator to easily acquire and change target within fractions of a second. The EOS-500 uses high accuracy 3D-tracking.

Integration

The EOS-500 can be offered as a part of a 9LV combat system solution or as a weapon control system together with parts like: CEROS 200, gun fire control and missile control modules, where the operators dynamically allocate any combination of tracker and weapon for flexible handling of surrounding threats or stand alone. The EOS-500 can also be integrated into any modern Multi-Function Console (MFC). The Human Machine Interface (HMI) provides full control of all EOS-500 features.

You can rely on Saab's thinking edge to deliver innovative, effective products and solutions that enhance your capabilities and deliver smarter outcomes.



Technical data

Stabilised platform

Type: Two-axis, elevation over azimuth
Angular speed: >3 rad/s
Angular acceleration: >10 rad/s²
Weight: Approx. 140 kg incl. sensors

TV-camera

Type: CCD-sensor
Output: Colour or B/W video
Field-of-view: Fixed values or zoom

IR-camera

Type: 4th generation
Wavelength band: 3-5 μm or 8-12 μm

Laser rangefinder

Type: Diode-pumped or OPO-shifted
Wavelength: >1.5 μm (eye-safe)
PRF: Up to 10 Hz

Power

115 / 230 V, 50-60 Hz, 3 kVA

Communication interface

Ethernet TCP/IP

Environmental conditions

Compliant with military standards like MIL-STD 810, MIL-STD 461, MIL-STD 167-1A and shock according to BV043

Additional equipment

Dry air unit
Military specification 19-inch cabinet
Power Supply Unit

The EOS 500 can be provided as:

- An integrated part of the 9LV combat system solution (9LV CMS, 9LV FCS)
- Stand-alone fire control director

Specifications subject to change without notice.
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Saab AB Surveillance
SE-175 88 Järfälla
Sweden
Tel +46 8 580 840 00

saab.com

