

# ARCHIVED REPORT

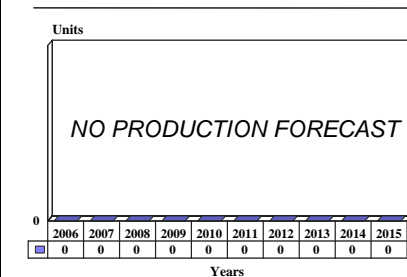
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## Electro-Optical Fire Control and Observation Director (EOS) - Archived 2/2007

### Outlook

- The last publicly available information on the EOS was a contract announcement in the summer of 2000
- No production is forecast
- Barring a sudden surge of activity, this report will be archived next year, in February 2007

10 Year Unit Production Forecast  
2006 - 2015



### Orientation

**Description.** The Electro-Optical Fire Control and Observation Director, also called EOS, is an electro-optical fire control system manufactured by Saab AB. EOS is designed for use on surface vessels.

#### Sponsor

Saab AB

Box 70363

Stockholm, Sweden 107 24

Tel: + 46 8 463 00 00

Fax: + 46 8 463 01 52

Website: <http://www.saab.se>

**Status.** In service.

**Total Produced.** Forecast International estimates that 34 EOS systems have been produced through 2005.

**Application.** Fire control.

**Price Range.** Contract analysis of a comparable product – the Kollmorgen Mk 46 EO Director – suggests a unit value of approximately \$1.5 million (FY03 dollars).

### Contractors

Saab AB, <http://www.saab.se>, Box 70363, Stockholm, 107 24 Sweden, Tel: + 46 8 463 00 00, Fax: + 46 8 463 01 52, Prime

### Technical Data

The Electro-Optical Fire Control and Observation Director is a single system capable of performing general observation, surveillance with target detection

and identification, high accuracy tracking, and fire control. The EOS comprises a TV camera, a laser range finder, and a TV/infrared tracker.

## Variants/Upgrades

There are three versions of the Electro-Optical Fire Control and Observation Director: EOS-400, EOS-450, and EOS-500. The EOS-400 is the initial version of the Electro-Optical Fire Control and Observation Director.

The EOS-450 consists of a gyro-stabilized platform with three sensors, a high-resolution TV camera, a multi-element infrared camera, and an eye-safe laser range finder. The TV/infrared tracker is based on digital correlation and uses advanced image processing. The tracker provides automatic target indication and acquisition. In case the target is momentarily

concealed, the tracker performs target prediction and target relock.

The EOS-500 is a single system capable of performing general observation, surveillance with target detection and identification, high accuracy tracking, and gun fire control. The basic system consists of one sensor platform and one electronics cabinet. An operator's console can be added for stand-alone operations. The EOS-500 pedestal is a lightweight dual axis (elevation over azimuth) stabilized platform designed for high accuracy electro-optical surveillance and tracking.

## Program Review

**Background.** The Electro-Optical Fire Control and Observation Director has been in service since 1985. In 1999, the Mexican Navy ordered the Saab EOS-450 fire control system for its Oceanica class frigates. In the summer of 2000, the Mexican Navy placed another

order for the Saab EOS-450 fire control system. Under this order, Saab manufactured and installed its EOS-450 onto the Mexican Navy's Holzinger 2000 class gunships.

## Funding

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Development and production of EOS is funded by Saab AB.

## Recent Contracts

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No recent contracts have been identified.

## Timetable

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<u>Year</u>	<u>Major Development</u>
1985	The EOS-400 entered service
1999	The Mexican Navy ordered the EOS-450 for its Oceanica class frigates
2000	The Mexican Navy ordered the EOS-450 for its Holzinger 2000 class gunships

## Worldwide Distribution

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EOS systems are known to be installed on vessels owned by Brazil, Finland, and Mexico.

## Forecast Rationale

The Electro-Optical Fire Control and Observation Director (EOS), is manufactured by Saab AB. It is designed for use on surface vessels. Saab's EOS fire control system has been in service since 1985.

No further production of the EOS is forecast, thus the Ten-Year Outlook chart has been omitted. The last

publicly available information on the EOS system was a contract announcement in the summer of 2000. That said, this report will be archived in February 2007. Should activity on this system resume, this report will be updated and reissued as appropriate.

## Ten-Year Outlook

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No production is forecast; therefore the forecast chart has been omitted.

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