

The contract notice concerns DALO's award of framework agreements for the procurement of mobile sensor systems, services and spare parts. The acquisition is divided into two framework agreements:

- 1) A framework agreement (acquisition contract) concerning the acquisition of the mobile sensor systems; and
- 2) A framework agreement (sustainment contract) related to the sustainment of the mobile sensor systems — mainly in form of delivery of spare parts and other sustainment services.

The acquisition contract and sustainment contract are to be seen as a whole and will be awarded to the same supplier.

DALO intends to use the deliverables for intelligence, surveillance and reconnaissance as well as for target acquisition and target designation. The mobile sensor system is intended as an electro-optical sensor solution supporting all branches of the Danish Defence.

There is a need for 2 sizes of sensor units, a medium range sensor unit and a long range sensor unit. Both shall be available for land and maritime applications, and should be available for airborne applications.

There is also a need for masts in different sizes for different land platforms.

Basic mandatory features of the medium range mobile sensor system.

Observe in following spectral bands:

- visual,
- Near Infra Red (NIR),
- Medium Wave Infra Red (MWIR).

Include following types of lasers:

- Laser Range Finder (LRF),
- Laser Pointer (NIR),
- availability of Laser Target Designator (LTD — for marking purposes).

Concept of operation for medium range mobile sensor system on land platforms.

The system can be operated in 3 ways:

- 1) The whole system mounted on the vehicle and operated from here;
- 2) The sensor is detached from the vehicle and placed on tripod in a short distance from the vehicle. Human Machine Interface (HMI) is still in the vehicle and the sensor is operated from here;
- 3) Whole system (sensor unit and HMI) is detached from the vehicle and placed on e.g. a roof and operated from here. Power from battery, mains or other. Tripod, battery and charging unit will be required for this scenario.

It shall be possible to attach and detach sensor unit and HMI from the vehicle manually and without the use of tools. System modules should be man portable.

It shall be possible to drive and observe with the sensor system at the same time with the mast in a low position.

Only while the vehicle is stationary it shall be possible to raise the mast to maximum height, use LTD and get grid references on observed objects.

Scope of supply specific for the medium range system:

- sensor units;
- HMI incl. recording capability;
- tripod;
- charging unit;
- batteries.

Technical mandatory requirements for the medium range sensor system:

1) The complete weight of the sensor unit shall be no more than 26 kg. The sensor unit is defined as 'The gyro stabilised platform that contains all sensors and lasers' i.e. not including external power supplies, external cables, hand controllers and other auxiliary equipment;

2) The resolution of the MWIR sensor shall be no less than 1280x720 sensor elements.

Basic mandatory features of the long range mobile sensor system.

Observe in following spectral bands:

- visual,
- Near Infra Red (NIR),
- Short Wave Infra Red (SWIR),
- Medium Wave Infra Red (MWIR).

Include following types of lasers:

- Laser Range Finder (LRF),
- laser pointer (NIR).
- availability of Laser Target Designator (LTD — minimum 70 mJ for designating purposes).

Concept of operation for the long range mobile sensor system on land platforms:

The system will be operated by TACP units (Tactical Air Control Parties) for AO (Artillery Observers) and FAC (Forward Air Controllers). The system is permanently mounted on the vehicle and usually operated from here. The vehicles sensor system should be able to communicate with a TOC (Tactical Operations Center) when used for camp protection.

It shall be possible to drive and observe with the sensor system at the same time with the mast in a low position.

While the vehicle is stationary it shall be possible to raise the mast to maximum height, use LTD and get grid references on observed objects.

Concept of operation for the long range mobile sensor system on Naval platforms:

The system is permanently mounted and operated from the vessel/platform.

Scope of supply specific for the long range sensor system:

- sensor units,
- HMI incl. recording capability.

Technical mandatory requirements for the long range sensor system:

- 1) The complete weight of the sensor unit shall be no more than 70 kg. The sensor unit is defined as 'The gyro stabilised platform that contains all sensors and lasers' i.e. not including external power supplies, external cables, hand controllers and other auxiliary equipment;
- 2) The resolution of the MWIR sensor shall be no less than 1280x720 sensor elements.

Scope of supply common for both medium range sensor system, long range sensor system and masts:

- training courses for master instructors and technicians,
- special tools and test equipment,
- spare parts,
- documentation,
- software,
- various types of service,
- support for integration onto a platform.

DALO intends to use the mobile sensor system on current operational vehicles and vessels, such as (however not limited to):

- MRZR from Polaris,
- intruder from Supacat,
- Piranha 5 from Mowag,
- NSW 11 meter RHIB,
- frigates of the Iver Huitfeldt-class,
- support ships of the Absalon-class,
- inspection ships of the Thetis-class,
- inspection vessels of the Knud Rasmussen-class,
- patrol vessels of the Diana-class.

And possibly on any other future vehicles, vessels and aircrafts operated by the Danish Defence.

The sustainment contract containing e.g. spare parts and services is intended for maintenance and enhancement of the mobile sensor systems, including support. The supplier shall assist in the integration of the mobile sensor system on any platform and shall assume full system responsibility in regards to the mobile sensor system on the platform.

DALO expects to make an initial purchase of 26-36 Mobile Sensor Systems. DALO requires deliveries to commence no later than 13 months after receipt of a purchase order.