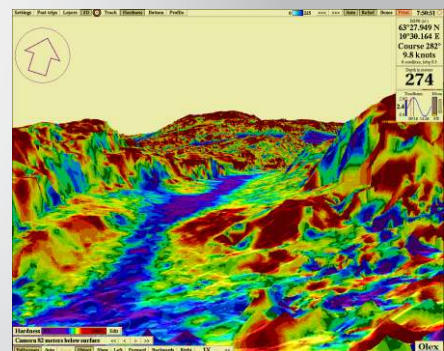
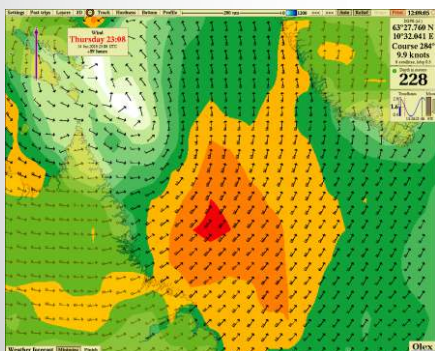
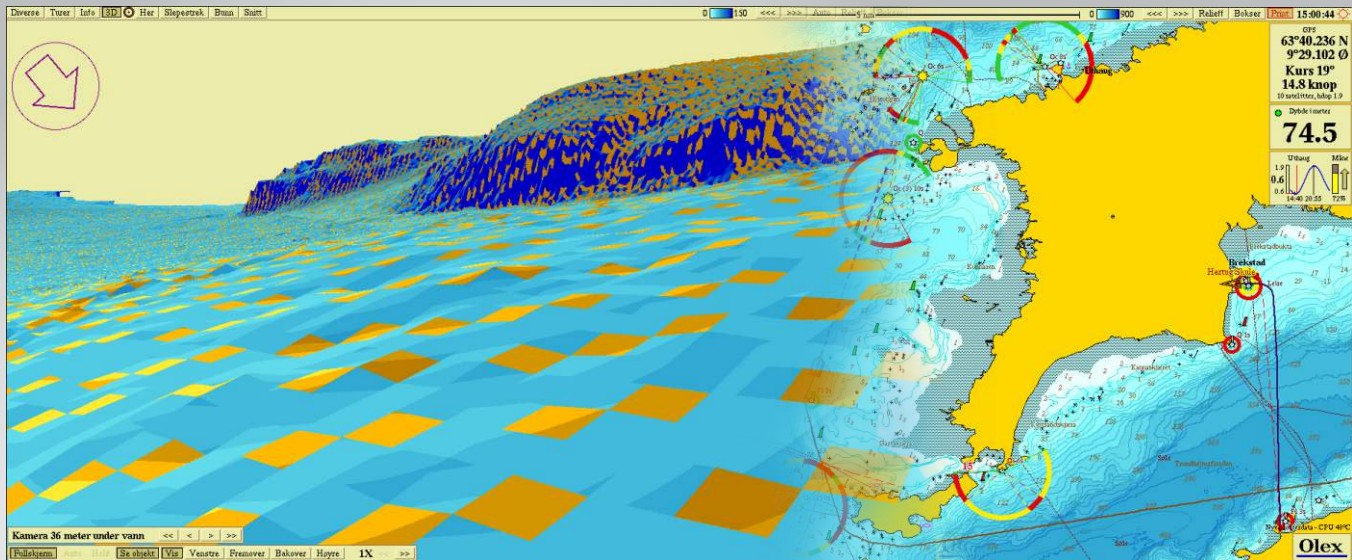


# Complete system for navigation and seabed mapping



# Olex

[www.olex.no](http://www.olex.no)



# Seabed survey and charting

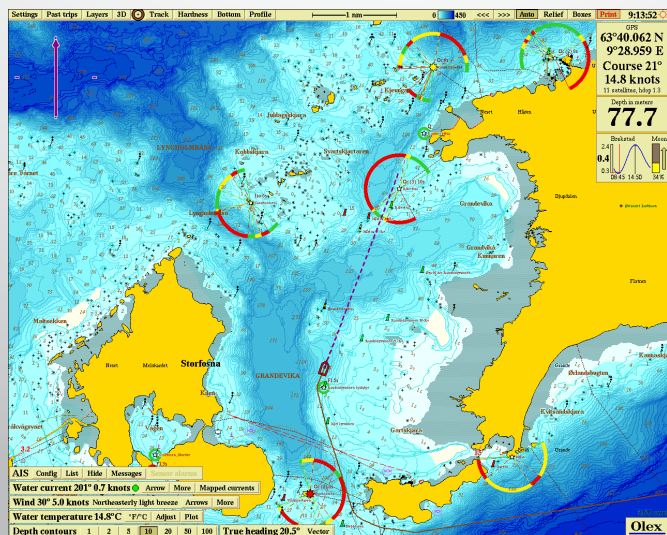
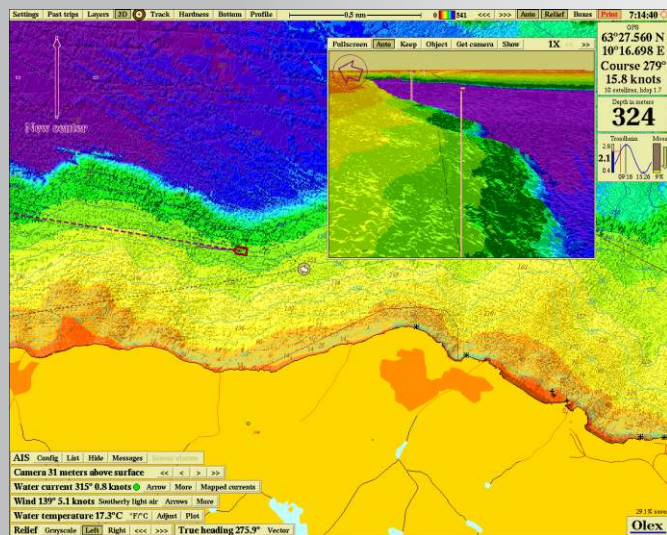
Using data from the ship's echosounder and GPS, Olex calculates a realistic 3D seabed map, in real time. The map is continuously recalculated, as more information comes in. The charting is fully automatic and require no manual operation.

## Visualization

The seabed map are shown together with the navigation charts, or in realistic 3D. Hot colours can highlight different depth areas. True measured points are marked with colored "boxes" which can be switched on to check the surveying density, or be used as an unofficial help in navigation.

## Navigation tools

Olex holds all necessary functions for maritime navigation. Easy route planning with autopilot interface, and clear chart display with fast zooming and movement. Olex can use official ENC's and unofficial vector charts in S57, shape and SOSI format.



## Additional modules

### Weather forecast

The GRIB module automatically download weather information from Internet, and display on the Olex-screen with colors, arrows and graphs. See the weather, present, in the future, or along a planned route. The GRIB-module can also auto-download plotter data, with official information about fisheries, ice charts, restricted areas and such.

### Trawl positioning

Olex can interface with various trawl positioning systems. The trawl is visualized on the Olex screen in 2D and 3D with distance, direction and door spread. The same software module can be used for ROV tracking.

### Identification

Olex AIS module allows all vessels with AIS, within radio range to appear on the Olex screen, displayed as triangular boat symbols with names or MMSI numbers. It is even possible to send and receive seafloor data between vessels via AIS. The module also support AIS over Internet.

### Ocean currents

The SB module makes the Olex able to calculate and map ocean currents, by analyzing messages from GPS, heading and water speed sensor.

### Seafloor discrimination

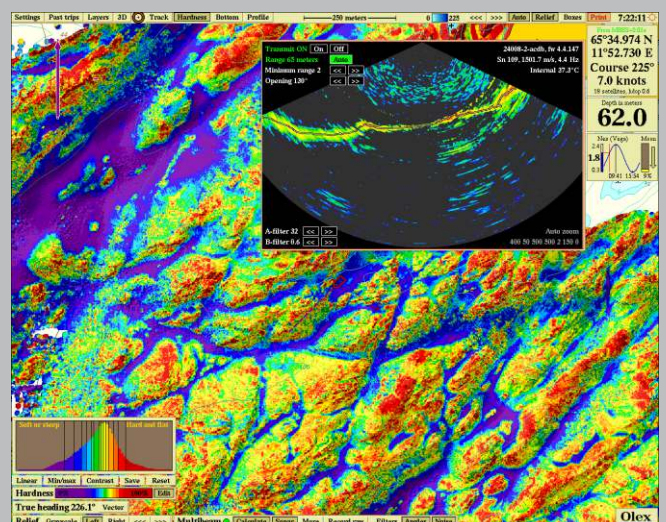
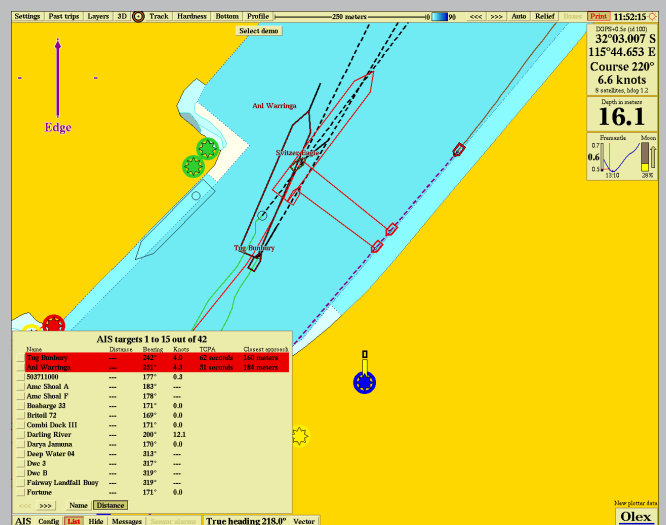
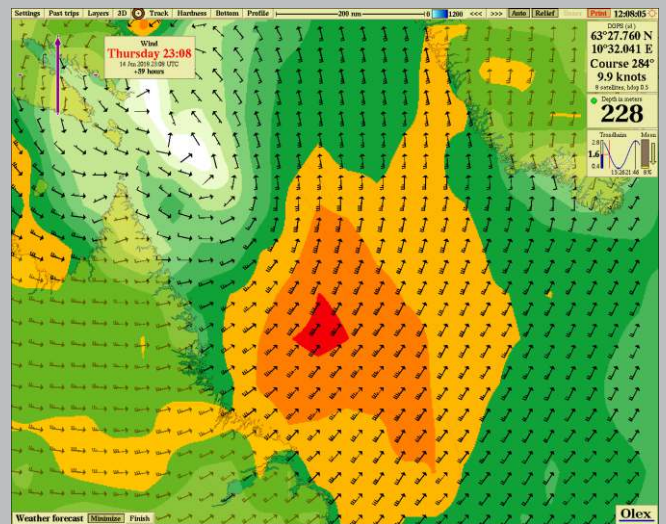
Olex HT module uses data from sounders, which measures the seabed's reflectivity, to determine and show relative hardness of the seafloor. The calculated hardness values are integrated in the seafloor map together with the depth values, and displayed as colours and percentage values.

### Multibeam data

Olex can be amended with software mudules to receive and process data from several brands of multibeam sonars. The ATEC module, also works as a top end software for our own Atec multibeam sonar.

### Data sharing

The self-produced seabed maps can voluntarily be shared between the Olex users. Data sharing is free of charge and organized by Olex AS. By submitting a backup of their own depth data, users get access to a database with depths collected by Olex users worldwide. More than two billion quality checked measurements now forms the basis for a comprehensive seabed map.



## Complete solutions

**Olex M-series**, compact industrial computer with 9-30V power supply and connections for external sensors. Easy to fit even in smaller vessels.

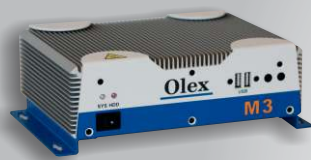
**Atec** is our multibeam sonar. The sonar from NORBIT is combined with software from Olex. The sonar connects directly to the Olex!. No extra PC or junction box is needed. Atec is compact but powerful, with unmatched accuracy and superb backscatter.

**Spatial** all-in-one sensor, measures pitch roll and heave, and also provides basic heading and position.

Olex distributes a range of **Trimble** products to complete our high quality survey package. Trimble can provide exact position, and super heading through two antennas.

## Unique features

- Fully automatic seabed charting
- Fast and seamless zooming
- Easy routplanning and plotting
- Individual customizations
- Tracking and naming of radar targets
- Autopilot interface with clear information
- Stepless dimming, and night screen
- Free software updates



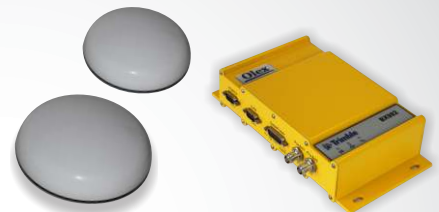
Olex M-serie



Atec



Spatial



Trimble

Our world wide network of skilled dealers and distributors can supply the necessary equipment, hardware and software as a complete package. Including professional installation on board. Contact info can be found on our website [www.olex.no](http://www.olex.no).

