Olex 3D chart system

DGPS
63°27.786 N
10°31.759 E
Course 280°
9.8 knots
8 satellites, hdop 0.5

Depth in meters
247

Trondheim
2.4
1.1
0.8
20:26 02:36 09:00

Final waypoint
63°27.468 N
10°27.143 E
2.09 nm
ETA 22:16
Autonav | Center
Edit | Finish

Autonav
Steer 261°
Port 19°
270   300
240   3
0   60
120   90
542 meters to the right of line
Final waypoint
2.09 nm
ETA 22:16

Camera 100 meters above surface << < > >>

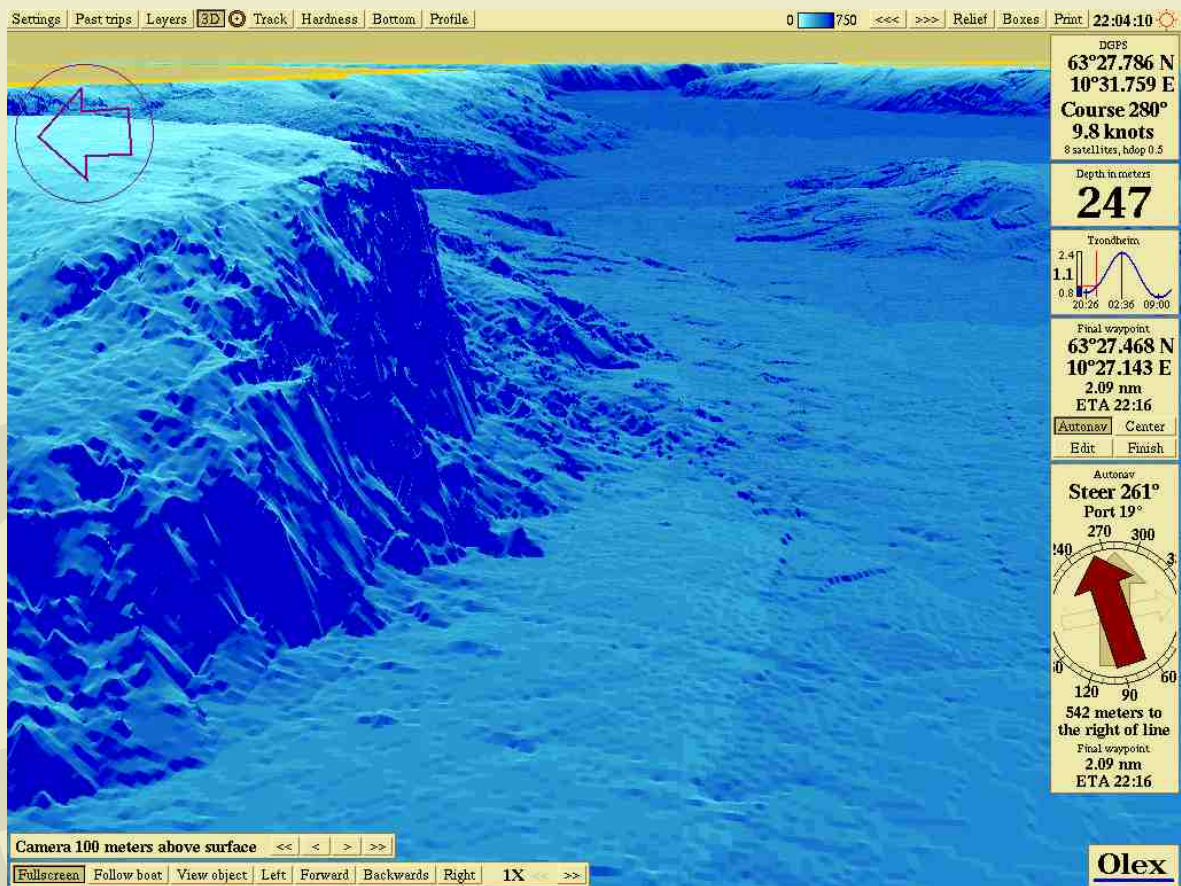Fullscreen | Follow boat | View object | Left | Forward | Backwards | Right   1X << >>

Olex

A complete system
for seafloor mapping,
navigation and
fishery

Olex

Olex 3D chart system
- for mapping, navigation and fishery

The Olex software system combines vector chart navigation and fishery plotting with seafloor mapping and visualization. Both old and new fishing grounds are charted by Olex, making for more economic and efficient fishing.

Innovative method for seafloor mapping

Olex constructs seafloor charts through realtime data from the echosounder and GPS. For every measured depth the chart gets more accurate. The seafloor calculation is a continuous and fully automatic process. There is no particular limit to the amount of seafloor data to be handled.

Shows how the bottom looks like

Olex has several visualization modes. Various 3D views gives a clear understanding of the topology. Several 2D modes such as relief, depth contour and bottom zoom, each highlights both flat and complex terrain. A special function shows 2D profiles along transects of choice. The system can even calculate the volume and area of surveyed water bodies.

Powerful plotting functions

It is easy to store marks, comments, lines and areas. Track lines of both radar targets and own vessel can be colored according to choice. The plotter data is organized into individually named plot layers, making it easy to distinguish between different types of data.

Superior solution for easy sailing

Olex ties vector chart data, seafloor data, plotter objects and radar targets together to a single easy to comprehend display. This means safer sailing and more efficient fishing. Besides, it is great fun to map the ocean!

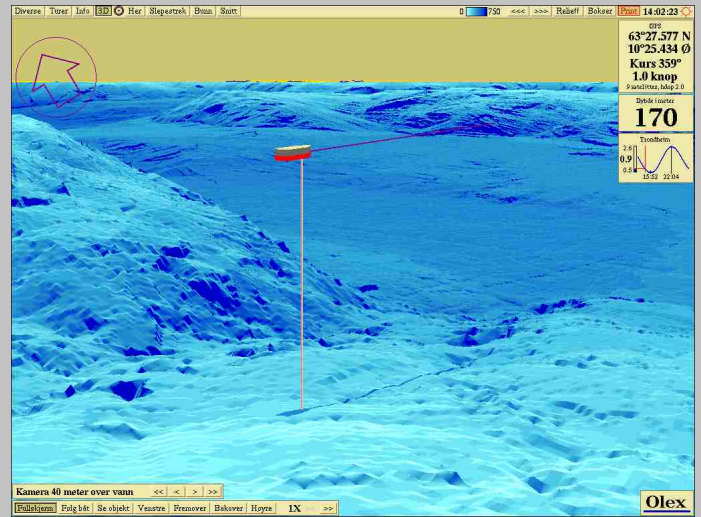Additional software packages is available for bottom hardness and trawl visualization.
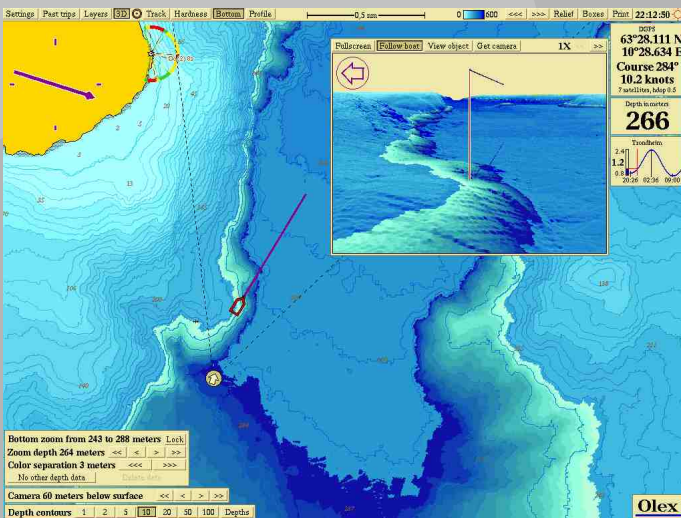
- a realistic seafloor view
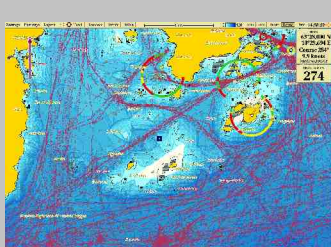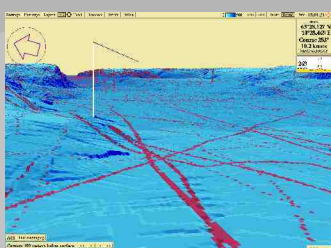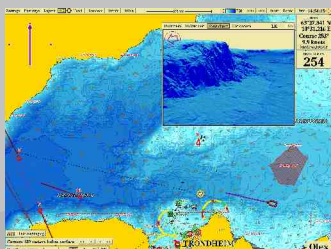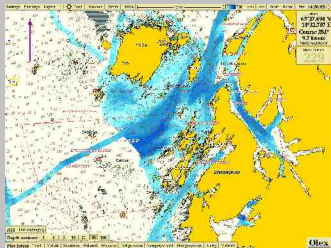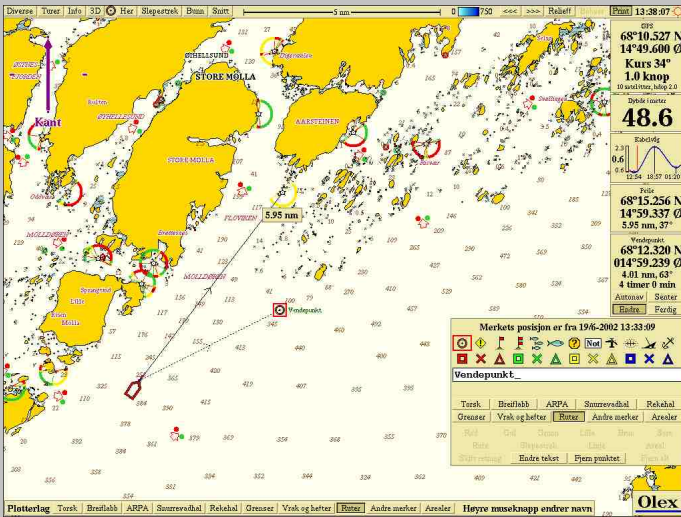
Easy to use
Olex uses vector charts from various sources. All operation is done through simple menus and buttons.
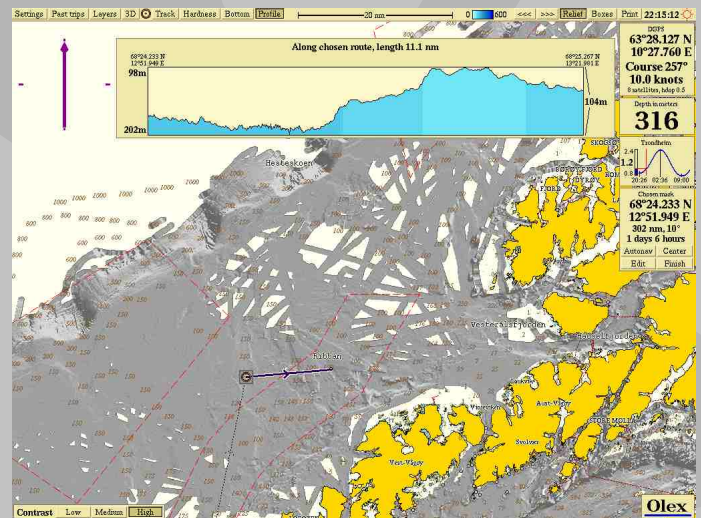

Realistic seafloor view
Olex shows the seafloor through a virtual camera, which can be moved and pointed at will. In this example the camera is set to automatically follow behind the boat.

Bottom zoom
Olex has several tools for seafloor visualization. The bottom zoom helps the skipper to find the best spots to place the fishing gear.

Free sharing of seafloor data
Olex users can share their data. These pictures shows data from many Norwegian fishing vessels. The skippers send in their data on diskettes and gets the whole database back on CD.

- Effortless vector chart handling
- Fast and smooth zooming and chart rotation
- Easy route planning and editing
- Tracking and naming of radar targets
- Autopilot interface for computerized sailing
- Multiple languages available
- Depths and elevations in meters, fathoms or feet
- Automatic tide correction
- Animated lights and sectors
- Shows previous depth soundings for safer navigation
- All trips stored for future reuse
- Water temperature logging
- Connects to GPS, echosounder, gyro, radar, compass, temperature sensor, autopilot etc.

Everybody can map the ocean with Olex

Additional software for more functionality

## Olex HT
Bottom hardness mapping
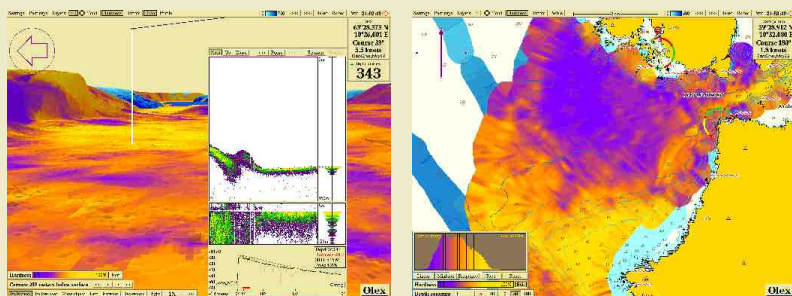
Olex connects to Simrad ES60 and EQ60 echosounders for seabed hardness mapping. The system analyzes the bottom echo, taking into account parameters such as pulse length, beam width and transducer type. A naturalized bottom backscatter is calculated and added to the internal chart. The hardness is shown as adjustable colors from deep pink for soft bottom to bright yellow for hard. The actual echosounder data can also be shown, with present and historic data.

Olex ITI
Trawl and ROV in 3D
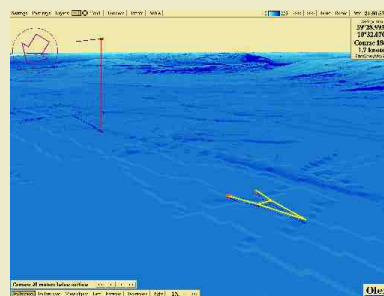
Olex interfaces to the Simrad ITI trawl positioning system. The true position of the trawl is shown in 2D and 3D, with distance, bearing, door spread and track. The software can also handle any number of ROV targets through the Simrad HPR and HiPAP systems.
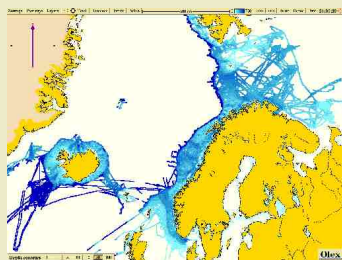
Technical specification
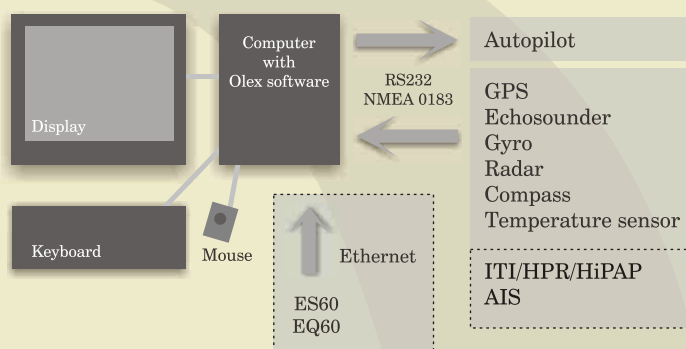
Vector charts
Official ENCs from agencies like IC-ENC, NOAA and Primar Stavanger. S57 charts from ChartWorld and other sources.

Data sharing

Users of Olex are encouraged to share their seafloor data. The data is stored on diskettes, and imported by other Olex computers. In this way the ocean floor is shared among many vessels, and each ship accesses larger areas than what can be surveyed by one ship alone. Traditional plotter data like marks and tracks can also be shared.

The Olex 3D system is sold by dealers of marine electronics. Contact your dealer for pricing and other information.

Dealer:

Olex