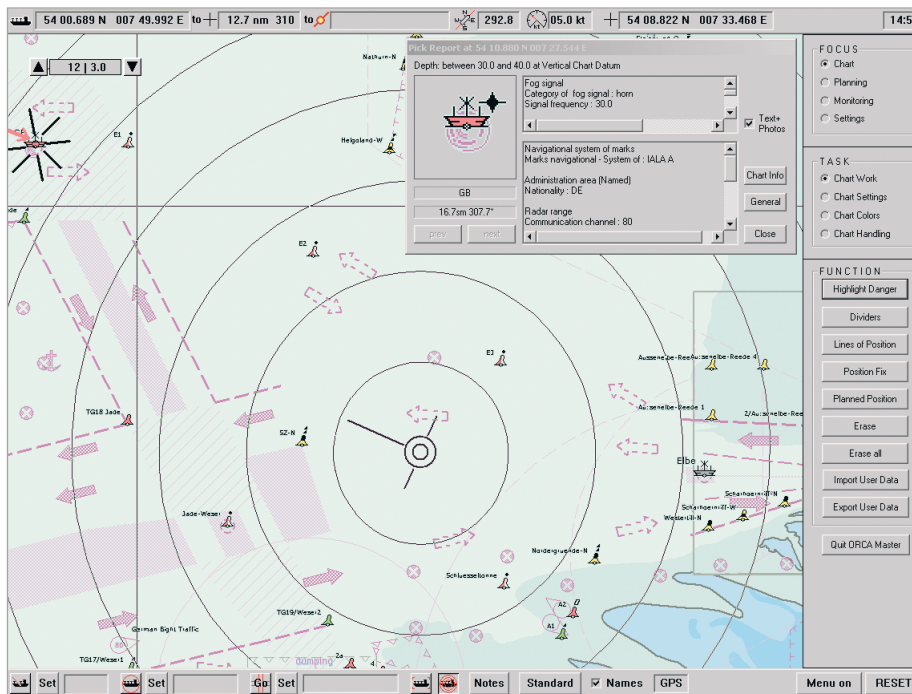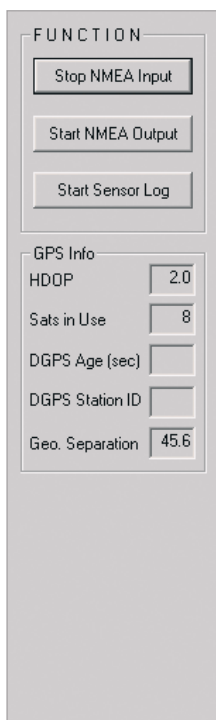# Orca Master

Ocean Runner Chart Assistant
Versatile navigational software for the professional user

The features of the ORCA Master are defined by the "Performance Standards for Electronic Chart Display and Information Systems" of the International Maritime Organization (IMO), the "S-57 Transfer Standard for Digital Hydrographic Data" and the "S-52 Specifications for Chart Content and Display Aspects of ECDIS" of the International Hydrographic Organization (IHO). The ORCA Master supports traditional chart work like navigational calculation as well as chart updating and route planning. Besides Electronic Navigational Charts (ENC) ORCA Master also reads ARCS and BSB raster charts thus providing coverage for practically all regions.
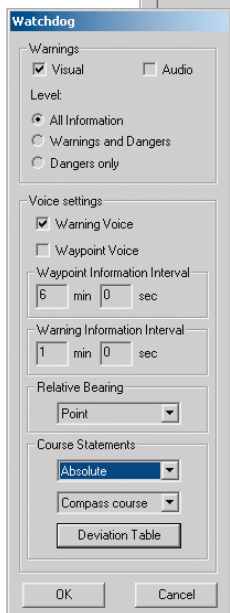
The ORCA Master is implemented by means of the Seven-Cs EC2007 ECDIS Kernel library. This library is the basis for type approved ECDIS systems that comply with the IEC61174 standard.

- Navigational functions for distance / bearing calculations

- Automatic loading of ENCs depending on own ship position and display scale

- Detailed query of chart features (Pick Report)

- Anti-grounding alarm functions

- Display of ARPA and AIS targets

- Optional voice output for messages and warnings

- Route planning

Waypoint List Detailed information for comfortable route planning.

ORCA Master uses display engine of type approved ECDIS.

Watchdog Multiple settings in the Watchdog dialogue window ensure safe navigation.

- Works with GPS and DGPS receivers

- Corrects magnetic to true heading using World Magnetic Model (WMM 2000) and deviation table

- Interfaces with standard AIS NMEA (IEC 61993-2) transponder, and R3 AIS (GP&C) transponder

- Uses type approved SevenCs Presentation Library for ECDIS

- Imports ENCs (S-57) charts, ARCS and BSB charts, and SevenCs directENC format

- Checks and applies vector and raster chart updates

- Handles both north up and head up mode

- Features anti-grounding functionality based on ENCs

- Built-in ship simulator using integrated mathematical model for ship dynamics

- Displays true scale and fixed size own ship symbol

- Includes interface to *ChartWorld*

ORCA Master provides fast access to navigational information. The automatic vector chart loading mechanism drastically reduces the navigator's workload, and voice output for messages and warnings can be activated. In addition to the display of vital sensor data ORCA Master includes a prediction function based on rate of turn, current speed and course to support manoeuvring. To ascertain other vessel positions ORCA Master utilizes transponder technology.

The chart display can be adjusted to the user's needs. Light symbols, a chart grid (graticule), or further additional information may be switched on or off, and there are colour table variants for day, dusk, and night display.

For further information please visit
www.orcanavigator.de

www.sevencs.com