# Main Features ➤

SPHT-1000A electronic chart system (ECS) can support S-57 and S-63 data formats and meet S-52 display standards, integrated functions like electronic chart display & information system, general navigation and safety system , etc.

Product design and test satisfy the international standards like IEC60945, IEC-62288, IHO S-52, IHO S-57, IHO S-60, IHO S-61 and IHO S-63, etc. and the product has already passed CCS Model certification.

Product possesses Comprehensive functions, stable performance, man-machine engineering design and convenient operation.

Flexible and convenient chart display & control; freewill selection of charts; freewill map zoom in or zoom out, cruise and selection of display background/content.

General functions ➤

Day mode

Night mode

Down mode

Set safe isobaths

Safe isobaths overstriking display
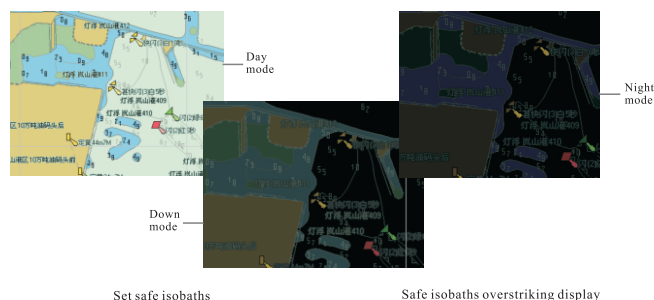
Provide 3 display modes as day, down and night; the chart display can be set as traditional symbols or simplified symbols; the safe draft draught, depth of shoal water zone and abyssal zone of the ownship can be set.

AIS target display: dynamic examining the static and dynamic information of surrounding vessels via receiving AIS signals, and real-time calculating DCPA and TCPA between target ship and ownship.

AIS listing information

target AIS report information
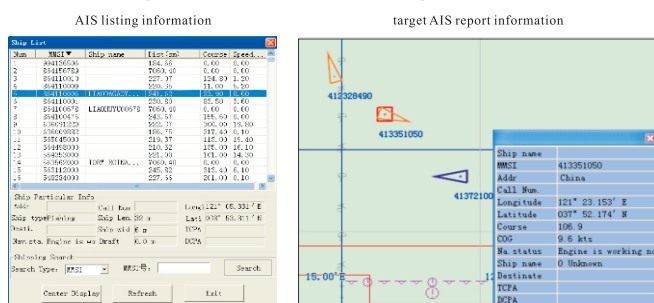
Real-time display the position, heading, speed, depth of water and milestone, etc. via receiving the data like GPS, AIS, heading sensor, sounder, odometer and APRA radar, etc. from the external sensors. The status of the external sensors can be observed through different colors.

ownship information


sensor status indication
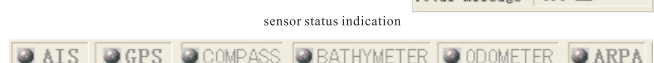
Alarm function: there are various pre-caution parameters can be set including closing to the safe isobaths, closing to the isolating danger, drift off the course, DCPA and TCPA, etc. The equipment can

automatically trace out the ship sailing status on the chart, judge various pre-caution parameters via making comparison with the planned route and make acousto-optic alarm to assist the navigator sailing.

drift-off alarm
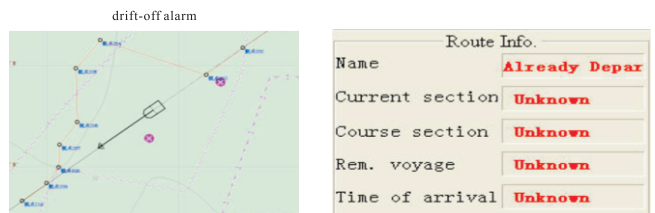
Sea route management: make sailing plan and back-up sea route via mouse clicking on the chart. By using sea route management menu, the operations like delete waypoint, amend waypoint, insert waypoint and return voyage can be fast and easily carried.

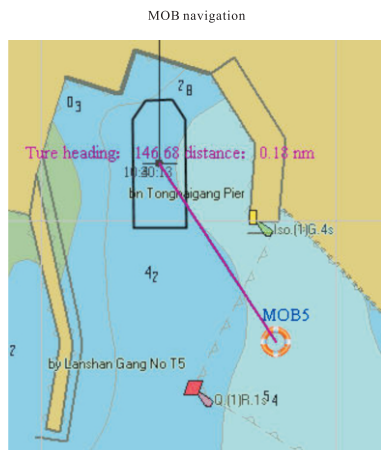design new sea route

amend waypoint
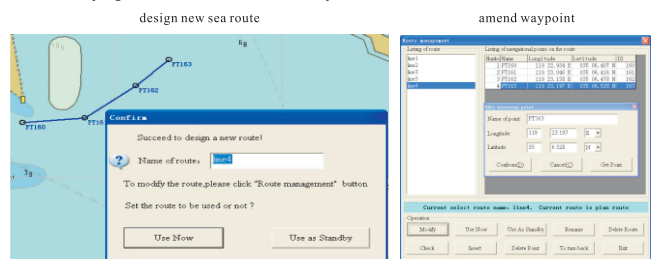
Track record and statistics: real-time display the actual tracks in the latest 12 hours, preservation of 200 track items and independent sailing records in the latest 3 months. The sailing milestones can be counted according to the time intervals.

historical tracks

current track
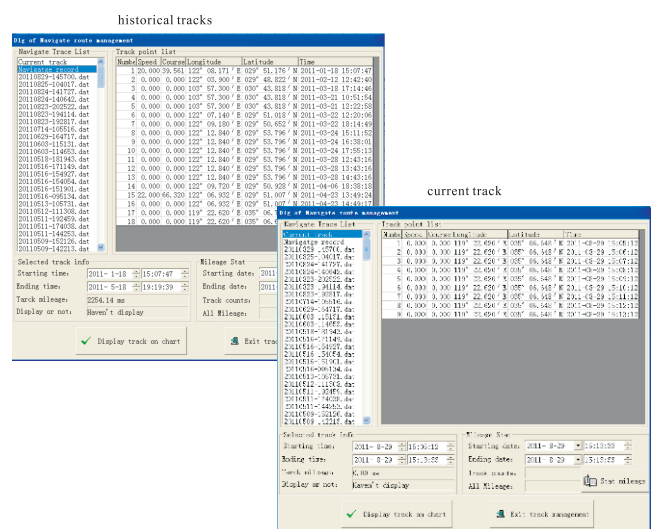
Ownship parameter setting: the parameters like size of the ship, draft draught, ship type and sailing status can be set.
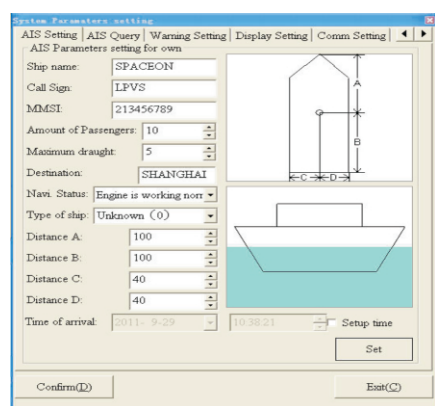
MOB management: the equipment provides fast and easy MOB label ways that one can directly label the current position or label the target by clicking the mouse. After being labeled, MOB symbol would appear at the corresponding place in the chart. Once choosing a MOB for labeling navigation, the equipment would real-time display the direction and the distance between the ownship and MOB, which aids a lot in quick searching and rescue activities.
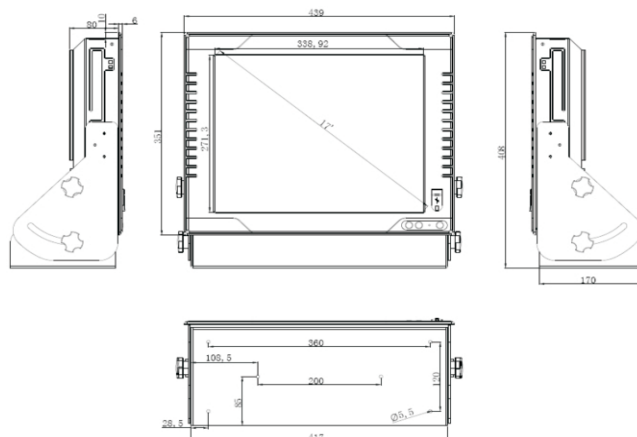
MOB navigation

MOB management

Product Size ➤

Desk type mounting

Embedded mounting

cutting size
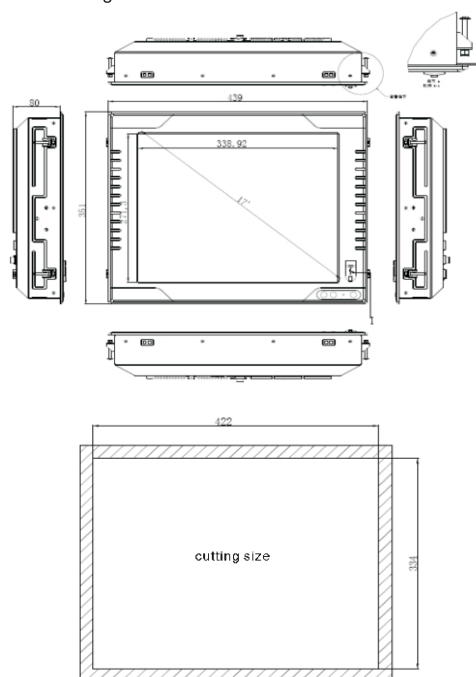
Technical Specifications ➤

technical parameter		display data	
Display unit	17' LCD monitor	Display mode	North ahead/heading up
Operation system	Windows XP	Ownship	Position, SOG, COG, heading, depth of water
Resolution	1280×1024	Sea route	Sea route plan, sea route monitoring & controlling
Power	9-32 VDC	Others	EBL, VRM and etc.
Chart format	IHO S-57、IHO S-61	Scale	1:2000-1:76 000 000
Interface introduction		Environment	
Digital GPS	IEC61162-2	Operation temperature	-15℃～55℃
Heading sensor(electric gyrocompass)	IEC61162-1	EMC	IEC60945
Detector	IEC61162-1	Humid	IEC60945
Odometer	IEC61162-1	Vibration	IEC60945
ARPA	IEC61162-1	Equipment list		Number
Automatic Identification system	IEC61162-2		ECS	1
Audio interface	1	Standar d allocation	Mouse keypad	1
USB	4		Power cable	1
LAN	1		Mounting frame (desk type)	1
10M/100M Network Ethernet	1	Optional accessories	Mounting frame (embedded mode)	1