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.

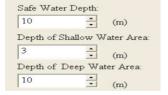
Flexible and convenient chart display & control; freewill selection of charts; freewill map zoom in or zoom out, cruise and selection of display background/content.

General functions >



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

							×	
Nan	NNSI▼	Ship name	Dist(sn)	- 1	Course	Steed	A	\ \
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2	254156723		7060, 40		0.00	0.00		1/1
3	854110010		227, 07		154, 89	1, 20		1.7
6	494110000		5500, 35		11.00			4
5	354110005	LTMOOMGACY	241.52		25, 90	0.00		41232849
5	\$54110001		230, 80		85, 50	3, 60		4110104
7	854100678	LIACHUYUCO578	7060, 40		0.00	0.00		
3	854100475		243, 5Y		155, 60	0.00		
9	636091223		222, 37		300, 00	15, 80		1
19	536609833		186, 75		217. 40			
11	355045000		219, 37		115, 00	15, 40		
12	554458000		210, 32		125, 00			35.
53	584353000		221.00		101.00	14, 30		_
19	563562000	TORY ROTES	7060, 48		0.00	0.00		
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								60
Sam of	ta. Engine is	was Draft 10.	0 m	DCPA.				7
Shirm	ing Search-						_	
			а.			Search		34
pearch	Type: MASI	W.5.1	91			ocarcn		E 001E
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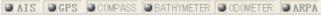
412328490		
413351050		×
4137210	Ship name MMSI Addr Call Num. Longitude Latitude Course COG	413351050 China 121* 23.153' E 037* 52.174' N 106.9 9.6 kts
15:00	Na. status Ship name Destinate TCPA DCPA	Engine is working no O Unknown

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.

Info. of own ship
035 06. 648 N
119 22. 620 E
Heading
0.0
Course
0.0
SOG
0.0 kt
Depth
0.00 n
Mileage
0.0 na

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.

historical tracks



fin Stat miles

A Exi: track management

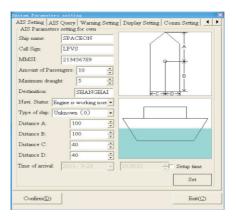
amend waypoint

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.

| Total point |

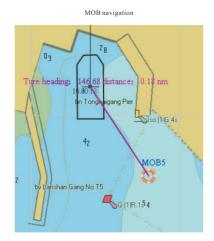
Ownship parameter setting: the parameters like size of the ship, draft draught, ship type and sailing status can be set.

✓ Display track so chart



Spaceon SPHT-1000A Electronic Chart System

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.

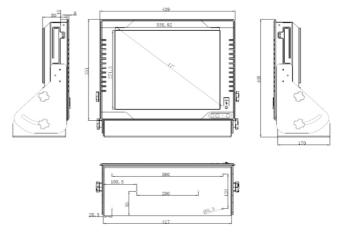


MOB management

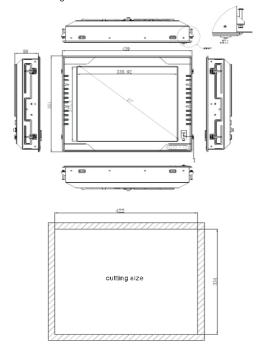
Nu	Name	Longitide	Latitude			
1	MOB1	122 08.220 E	029 52.350 N			
2	MOB2	122 08.580 E	029 50.712 N			
3	MOB3	122 04.020 E	029 49.224 N			
4	MOB5	119 19.620 E	035 05.106 N			
5	MOB5	119 22.740 E	035 06.498 N			
	Position Label Modify Label Navigate MOB Center Display		Mouse Label Delete Label Cancel Navigatgation Exit			

Product Size>

Desk type mounting



Embedded mounting



Technical Specifications>

technical	display data						
Display unit	nitor	Display mode		North ahead/heading up			
Operation system Windows XF		P	Ownship Position depth of		Position, S depth of wa	SOG, COG, heading, vater	
Resolution 1280×1024		1	Sea route Sea rout & control		Sea route pl & controlling	plan, sea route monitoring ng	
Power 9-32 VDC			Others EBL, VRM		and etc.		
Chart format IHO S-57、I		IHO S-61	Scale	1:2000-1:7		6 000 000	
Interface i	Environment						
Digital GPS		IEC61162-2	Operation temperature		-15°C ~ 55°C		
Heading sensor(electric gyrocompass)	IEC61162-1	EMC IEC			IEC60945	IEC60945	
Detector	IEC61162-1	Humid I			IEC60945		
Odometer		IEC61162-1	Vibration		IEC60945		
ARPA	IEC61162-1	Equipment list				Number	
Automatic Identification system	IEC61162-2		ECS			1	
Audio interface	1	Standar	Mouse keypad			1	
USB	4	dallocation Power cable			1		
LAN	1	Mounting frame (d		esk type) 1			
10M/100M Network Ethernet	1	Optional accessories	Mounting frame (embedded mode)			1	