



HydroStar



The HydroStar is the latest addition to the leading Haiying Marine SBE product range, which is developed jointly by Haiying Marine and South. HydroStar stands out from other large size systems with heavy batteries on the market, and it features high resolution, portability, intelligence, simple connection and easy operation, really enabling the survey carried out without delay. It is composed of the SBOX wireless positioning terminal, the S550 Tablet receiver, the HY1612 SBE and its transducer. The HydroStar is capable for both shallow and mid-water survey, and it's widely used in offshore, river, lake, port and waterway dredging, etc.

HydroStar Portable and Smart Surveying System

Features

- The HY1612 portable SBE system features ultra-low weight, double power supply, ultra-shallow surveying and ultra-low power consumption and easy assembly.
- The carbon fiber pole makes one-handed carrying and operation possible to perform your task at any time, which is convenient, effective and reliable.
- The SBOX positioning terminal is at centimetre-level, and other positioning systems like SBOX series and RTK are available on request.
- The S550 industrial Tablet receiver has the Android-based navigation acquisition software installed with a user-friendly interface.
- The post-processing software New Free Walking is compatible with Hypack formats.
- Position data is transmitted via Bluetooth and single beam data is transmitted via WIFI, making the communications concise and effective.





Specifications

HY1612	Voltage	10VDC~15VDC, nominal 12VDC
	Input power	Rechargeable lithium battery, or external power supply(0~36V)
	Battery charging voltage	18VDC/1000mA
	Frequency	446kHz
	Beam angle	≤6°
	Depth rating	0.2m~100m (450kHz)
	Operating mode	Manual or automatic
	Pulse width	0.05~0.4ms (automatic control)
	Output power	≥80W, four range adjustable (automatic control)
	Accuracy	1cm±0.1%D (D is measured depth)
	Communication	WIFI
	Ping rate	Up to 20 pings/sec, related to the range
	Operating temp.	-10℃~50℃
	Operating time	>8h
	Storage temp.	-40℃~55℃
S550	Operating system	Android 4.2.2
	Memory	1GRAM
	Storage	BG Flash, expansive to 32GTF card
	Display	7 inch IPS screen(1024×600) , readable under strong light
	Datacom	Bluetooth/WIFI/SIM card
	Lithium battery	7200mAH, 3.7V, replaceable
	Operating time	10h (typical)
	Operating temp.	-20~60℃
	Storage temp.	-55~75℃
	Shockproof	1.5m free drop endurable
	Waterproof and dustproof	IP65
SBOX	Communication	Bluetooth
	Operating time	≥8h
	Operating temp.	-20~60
	Ingress protection	IP67
	Single point positioning	2.5m
	External source accuracy	<5cm (accuracy of RTK from South is 1cm)
Total weight		<4kg

Technical parameters are likely to change as product updates and upgrades, above information is only for reference.