

















Hi-Target iBoat BS3 Item List

NO.	Category	Item	PCS	Description	Picture
1	Boat-borne System	BS3 Hull	1	Kevlar & carbon fiber high-strength composite	
2		Propeller System	2	Ducted propeller design, removable	
3		Battery for the boat	1	Lithium Battery Nominal voltage: 33.6V Nominal capacity: 35Ah	
4		Hull Charger of Large Current	1	220V AC Current: 2A	
5	Ashore Base System	Intelligent Controller	1	Including charger	
6		Dongle for HydraGCS Software	1	Active the operating software	
7		IBoat USV Control Software	1	Boat control Boat status monitoring Survey lines planning Auto-piloting	
8		Dongle for Hi-Max Software	1	Active the collecting software	
9		Data Collection and Post-Processing Software	1	Hi-Max Hydrographic Software - Boat positioning setting - Bathymetric data collecting - Data post-processing - Surveying results display	
10		Base System	1	As a data transfer station Including charger	
11		Ashore Station Antenna	2	5.8GHz transmitting antenna	
12		On-Boat Transmitting Antenna(5.8GHz)	2	5.8GHz transmitting antenna	

13		On-Boat Transmitting Antenna(2.4GHz)	1	2.4GHz transmitting antenna	
14		Ethernet Cable	1	Including 1 standards :1m	
15	Professional USV Echo Sounder	Echo sounder mainframe	1	Working frequency: 200KHz Maximum transmitted power: 250W Sounding range: 0.15m~300m Sounding accuracy: $\pm 10\text{mm} + 0.1\%$ at 1cm resolution Sound velocity adjusting range: 1370~1700m/s, 1m/s resolution Beam angle: $5 \pm 0.5^\circ$ Ping rate: 30Hz Serial port: RS232 (9600-115200) Output: NMEA DBT, NMEA DBS, DESO 25, ODOM, Hi-Target Ports: 1*Power port 1*Ethernet port 1*TX (Transducer)port	
16		High Frequency Transducer	1	Waterproof: IP66 Power supply: 12V DC Power consumption: 4W	
17	Positioning Device on iBoat	Positioning Device	1	GNSS Signals: 220channels GPS L1C/A, L2C, L2E, L5 GLONASS L1C/A, L1P, L2C/A (GLONASS M only), L2P GALILEO E1 BOC, E5A, E5B, E5AltBOC BDS B1 B2 SBAS WAAS MSAS EGNOS Positioning accuracy RTK : Horizontal $\pm 8\text{mm} + 1\text{ppm RMS}$ Vertical $\pm 15\text{mm} + 1\text{ppm RMS}$	
18		Internal Battery of RTK	2	Lithium Battery	
19		Battery Charger	1		
20		Hand-held Controller	1		
21		Lithium Battery for Controller	2		
		Y Data Connecting Line	1	GC-3	
		UC-1 Radio Communication Cable	1	UC-1 Radio Communication Cable	
22		Extendable Pole	1	N/A	

23		UHF Radio Antenna	1	N/A	
24	Services	Flight Cases	1	Aviation case for Controller	
25				RTK Receiver plastic case	
26			1	Aviation case for Hull	



Hi-Target
 Surveying the World, Mapping the Future