

SPECIFICATION

Module	Project	AQUA M20
Hull	Hull size	1.18m (L) X0.7m (W) X0.4m (H)
	Hull material	High-impact GFRP
	Hull shape	Triple-hulled vessel
	Hull weight	12.8kg
	Load	42kg
	IP level	IP67
	Moon pool diameter	23cm
	Performance in wind and wave-resistance	≤smooth-wavelet 0.1~0.5m, ≤wind speed 3BF, 3.4~5.4m/s
	Safety navigation	360°camera, avoid obstacles, navigation lights, shallow water alert and auto come backward, anti-waterweeds propellers.
Power	Power mode	Electricity
	Battery	33V, 45Ah
	Propeller	Culvert-design, simple installation
	Maximum speed	7m/s
	Battery life	5 hours@2m/s
Communi- cation	Communication range	Remote controller 2 KM, 3G/4G no limitation
	Data storage	Multiple data storage path: Android remote controller, SU20 control unit, cloud server
	Remote controller	9.2 inch screen, battery 20000 mA/H, 6-20 hours operation time, 1034g weight, size 272*183*94mm
Software	Remote controller	Android software in H16 controller, combine the autopilot, remote control, navigation and data collection function all in one
	Data process software	Data process software install in Windows OS computer, support data replay, tide station correction, IMU correction, SVP correction, coordinate system post process etc. functions
Build in GNSS	Antenna	Dual GNSS antenna
	GNSS	Support BDS(BDS-3, BDS-2), GPS, GLONASS, Galileo, IRNSS, QZSS, SBAS, support BDS-PPP
	RTK initialize time	Less than 5s
	BDS-PPP accuracy	H: less than 10cm
	Heading accuracy	0.15°@1m baseline
	IMU accuracy	0.25°
Echo sounder	Specification	Standard SDE-18s echo sounder, optional SDE-19S and SDE-19D. SDE-18S: 200Khz, 0.15-100m measure depth SDE-19S: 200khz, 0.3 - 200m. SDE-19D: 200Khz/20Khz, 0.3 - 600m

Note: all information above is subject to change without any prior notice.



AQUA M20

SOUTH USV



Profile



With more than 10 years USV development and hydrographic survey experience, SOUTH release the new generation USV Aqua M20 and M10 for hydrographic survey, ADCP current measurement, water quality inspection and some emergency measurement. It is a reliable, innovated and rugged USV solution you will be exciting and high praise for your project.

Loaded equipment:



ADCP



Sub bottom profiler



Dual frequency echo sounder



Water quality sensor



Side scan sonar



Multi-beam echo sounder

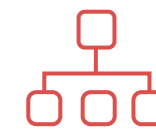
Advantages



Battery status
easy check



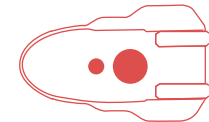
High performance GNSS



ALL in one design
pilot unit



All in one design
remote controller



Moon pool design



Auto pilot



Devices replace
simply



Obstacle avoidance



Durable propeller



360° pano camera

