



MODEL





PHYSICAL

Dimension (LxWxH) 1180x700x390 mm

950x500x350 mm

mini Single-frequency Echo Sounder (default), plus ADCP, Sub-bottom Profiler, Side Scan Payload

Sonar, Multi-beam Echo Sounder, etc.

mini Single-frequency Echo Sounder (default) only

Material Nano carbon fiber polymer composite

IP Rating

Wind-wave Resistance Gentle breeze, smooth wavelet

Nano SIM card slot available Telecom Interface

System Assembly Modular, plug-in

ELECTRICAL

Motor Power

Endurance

Video Communication

4G telecom & network bridge

IP67

High-efficiency culvert long-life brushless motor Motor Engine

Typical 850W each

Battery Portable and detachable high-performance ternary Lithium battery, 33V, 45000mAh

> 7 hrs @2m/s 5.5 hrs @2m/s

> > single battery, long-life option available)

PERFORMANCE

Propulsion

Steering Mode

Electric drive

7m/s max. Cruise Speed

Steering engine free, differential steering, reversible

Built in, highly integrated with transducer, fully automatic operation after power connection. Operating frequency 200kHz, beam angle 5°, sounding angle 0.15-100m (upgradeable). Default Echo Sounder

Operating frequency - high frequency≥200kHz,

low frequency≤20kHz; beam angle – high frequency≤5° Optional Echo Sounder

low frequency≤20°; sounding angle – high frequency 0.15-300m, low frequency 0.5-600m

POSITIONING

RTK Accuracy

GNSS Antenna

Dual antenna, pre-installed in front and rear individually

GPS, Glonass, Galileo, Beidou-2, Beidou-3, Beidou-PPP, IRNSS, QZSS, SBAS, L-band, etc

Single-point Positioning Accuracy

 $H \le 1.5 m, V \le 2.5 m$ < 10cm, optional

Beidou-PPP Accuracy

GNSS Constellation

H: ±(8+10-6×D)mm, V:±(15+10-6×D)mm. D refers to baseline length, unit: km.

Supports GNSS-inertial, 1PPS, IMU refresh rate 200Hz max. IMU Onboard

IMU Performance Heading accuracy 0.15°@1m baseline, orientation accuracy 0.25°@1m baseline

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



SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

Add: South Geo-information Industrial Park, No.39 Si Cheng Rd, Guangzhou, China Target your success http://www.southinstrument.com

AQUAM20/M10

Built for Hydrographic Unmanned



- 1 Dual Ducted Propeller double propulsion system for powerful cruise
- 2 Double-decker Trimaran smart structural design for reliable and stable cruise
- 3 Rear GNSS Antenna works with inbuilt GNSS for precise positioning
- 4 Auto-pilot System excels in unmanned operation
- 5 Network Bridge Antenna Port talks with remote controller to transfer data
- 6 Specialized Moon Pool ready to fit a variety of payloads like ADCP, multi-beam
- 7 4G Telecom Antenna Port equipped for RTK corrections and vessel remote control
- 8 Radio Datalink Antenna Port communicates with base station for RTK corrections
- 9 Battery Compartment endurance around 5 hours in auto-pilot mode
- 10 Power Display Panel for direct voltage value reading
- 11 Device Power Switch one-key quick start
- 12 Recharge Port standalone or direct onboard charging, optional
- 13 Mini Echo Sounder F18S single frequency, built in as default
- 14 Double-sided Guide Light blinks in green against mission safety
- 15 World-famous 360° Camera provides pano view during missions
- 16 Millimeter Microwave Radar designed for obstacle avoidance
- 17 Front GNSS Antenna provides stable heading info for auto-pilot
- 18 Remote Control Unit mission planning and control all in one



SOFTWARE

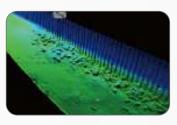
APPLICATIONS



Auto-pilot



Satellite Map



Multi-beam Mapping



Obstacle Detection



Dredging Works



Underwater Bathymetry

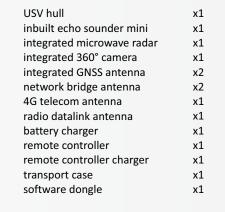


River Measurement



Hydrology Investigation

CONFIGURATION 🚽



Note: just take M20 for example above.





