

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



AQUA M20



Profile



With more than 10 years USV development and hydrographic survey experience, 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

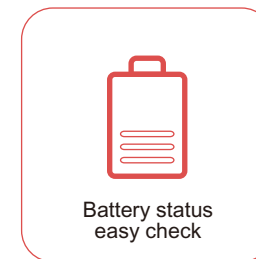


Side scan sonar



Multi-beam echo sounder

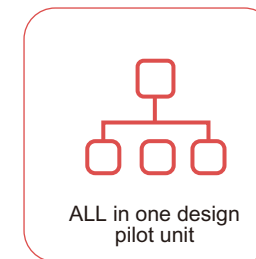
Advantages



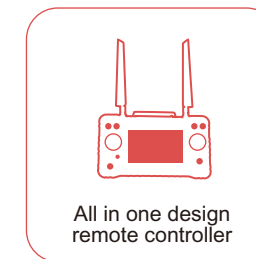
Battery status easy check



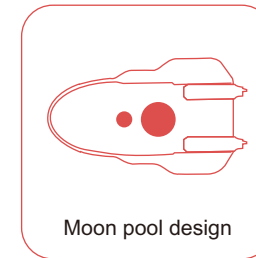
High performance GNSS



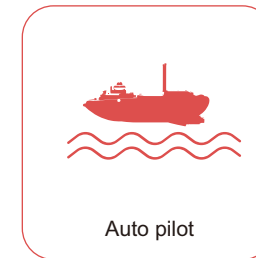
ALL in one design pilot unit



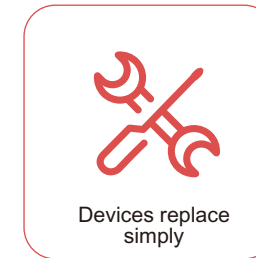
All in one design remote controller



Moon pool design



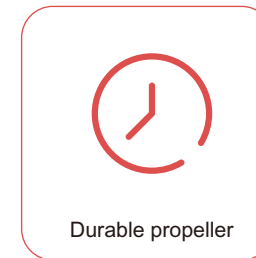
Auto pilot



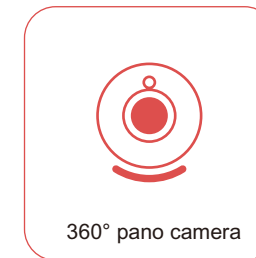
Devices replace simply



Obstacle avoidance



Durable propeller



360° pano camera

