

SS20

SAMPLING USV



Sampling Bottle - 10L



Sampler - 1.8L * 3, Optional

8kn

Max. Speed

6h @ 1.5m/s

Endurance

10 L

Payload

The SS20 USV is a compact, one-man unmanned boat designed for single-point water sampling in rivers, lakes and reservoirs. With the intelligent remote control, the operator can enjoy a higher level of flexibility and safety in the harshest of working environments.

Application Scenario

Single point water sampling on lakes, rivers and reservoirs

Key Features

- 1 Compact and light-weight, ideal for one-person-operation
- 2 Automatic water sample collection, capacity up to 10L
- 3 Duct-type thruster, tangle-free of debris and water plants
- 4 Powerful propulsion allows the USV to sail at a high speed of up to 5m/s
- 5 Navigation and sampling with one smart remote controller

SPECIFICATIONS

Physical

Dimension	1.05m (L) × 0.55m (W)
Weight	17kg(with battery)
Payload	10L
Draught	0.15m
Hull Material	Carbon fiber composite

Power & propulsion

Propulsion	Duct-type Thruster × 2
Power	33v/40AH waterproof lithium battery

Performance

Survey Speed	3kn
Maximum Speed	8kn
Endurance	6 hours @ 3kn
Real-time Video	PTZ camera
Collision Avoidance	Yes

Control & Communication

Control Mode	Remote Control / Autonomous
Remote Control	1km
Data Telemetry	2km
Software	OceanAlpha USV Control Software

CASE APPLICATION



TAILINGS SAND SPILL EMERGENCY RESPONSE

EQUIPMENT USED:

SS20 USV, Sampler

APPLICATION:

The SS20 USV operated round-the-clock and uninterruptedly for 2 consecutive days, sampling every 2 to 4 hours, obtaining a large number of first-hand water quality samples, which provided a basis for decision-making in the formulation and adjustment of an accident involving a spill of mineral sands from a mining tailings pond.