

# SS20

## SAMPLING USV



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

# 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.