

# SEVSVW

### Your autonomous underwater drone

### Vehicle

Size: 55cm x 45cm x 23cm / 22in x 18in x 9in

Weight in air: 9 kg / 20 lbs

**Handling:** 1 person for launch / recovery, no ROV

pilot needed

Max Speed: 1.25 m/s (2.4 knots) Maximum depth: 100 m / 330 ft **Bumper Frame Material: PEHD** 

Hardware architecture: modular platform allowing

tailor-made design for each use (vector performance, carrying of other sensors...)

#### Camera

Sensor: 1/2.8" CMOS Sony IMX290 Sensor **Video Streaming Resolutions**: 2MP(still image),

Full HD 1080p (30 fps) Responsivity: low light

**DFOV**: 117° (air) – 80° (water)

### Interface

**Underwater control (follow the diver):** selection of navigation scenario, filming mode, recording start/stop, lights on/off, Emergency surfacing Supported Operating Systems: Android Tablet,

Linux (Notilo Plus API)

Communication Interface: WiFi, Ethernet

**Communication Protocol: UDP** 

**Control Input:** Android Tablet, Bluetooth Joystick

#### Sensors

**Depth Sensor** (Meters or Feet), Internal Temperature, Tether Counter (Meters or Feet), GPS, 9-Axis IMU, Magnetic Power Switch.

# Medium Battery

Capacity 6600 mAh

Voltage 14,6V **Chemistry:** NMC

Charging Time 2.5 hours Battery life: 1.5 hours, interchangeable **Battery Weight**: 800g

#### **Thrusters**

Max Thrust Force: 5,1 kgf Reverse Thrust Force (Max Length: 100 m

/ Min): 4,1 kgf / 0,01 kgf **RPM:** 300-3800 Rev/min Max Power: 350 Watts

Voltage: 6-20 V Max Current: 25 A Weight in Water: 156 g

## Standard Light set-up

Illumination: 2\*1000Lm Beam Angle: 110°

**Energy:** drone-powered **Orientation:** Facing

drone

### Large Battery

Capacity 10400 mAh

Voltage 14,6V **Chemistry:** NMC

**Charging Time** 4 hours Battery life: 2.5 hours, interchangeable Battery Weight: 1050g

#### Tether

**Diameter:** 4 mm

Max Working Strength:

500 N

**Buoyancy:** neutral in

Fresh Water

**Conductors:** Twisted

Pair

# **Turbidity Light** set-up (option)

Illumination: 2\*10000 Lm

Beam Angle: 110°

Energy: battery-powered Orientation: deported

from camera

# Navigation

Navigation: autonomous navigation, emergency surfacing and obstacle avoidance modules, wall

servoing, locked heading, speed & depth. **Engines**: 7 (6 degrees of freedom)

**Options** (Seasam as a modular solution)

Seasam's capabilities can be upgraded on demand (depth, speed, tether's length, etc.).

Other sensors can also be embedded: underwater

GPS, 3D Sonar, thickness gauge, etc.

