



# TRIDENT<sup>®</sup>

## Technical Specifications

### SIZE AND WEIGHT

EXTERNAL DIMENSIONS [ L X W X H]	410mm x 205mm x 86mm (16.1in x 8.1in x 3.4in)
WEIGHT	3.4kg (7.5lbs) ballasted for freshwater 3.5kg (7.7lbs) ballasted for seawater

### PERFORMANCE

DEPTH RATING	100m (328ft)
THRUSTERS	3 ultra-rugged, low-maintenance brushless motors
MAXIMUM SPEED	2 m/s (3.89kts / 7.2kph / 4.5mph)

### BATTERY AND POWER

BATTERY ARCHITECTURE	3S4P Li-NMC 18650 cells with built-in PCM, UN38.3 approved
CAPACITY	95 WH
CHARGE TIME	1.5hr from 20% to 80%, 3hr from 0% to 100%
NOMINAL RUN TIME	3-4 hours, normal operation (active piloting, lights on)
POWER CONSUMPTION	30W nominal
CHARGER POWER REQUIREMENT	120VAC to 240VAC (charger included)

### INTERFACE AND COMMUNICATION

TOPSIDE WiFi INTERFACE	802.11 b/g/n
SYSTEM REQUIREMENTS	Works on modern Android (minimum 5.1) device through the OpenRov App.
VEHICLE PAYLOAD DATA INTERFACE	WiFi

### OPERATING CONDITIONS

OPERATING WATER TEMPERATURE RATING	-2°C to 40°C (28.4°F to 104°F)
STORAGE TEMPERATURE	0°C to 25°C (32°F to 77°F)
CHEMICAL RESISTANCE	Seawater, diluted Chlorine

### CAMERA SPECIFICATION

RESOLUTION	1080p @ 30fps recorded, 720p @ 30fps live on device
VIDEO LATENCY	Very low latency (~120 ms)
VIDEO COMPRESSION	h.264
VIDEO EXPORT FORMAT	mp4
FEATURES	Excellent color rendition, high dynamic range, optimized for low-light underwater, wide angle field-of-view and scratch-proof sapphire window.

### LIGHTS

QUANTITY	6 forward facing LEDs (3 on each side)
TOTAL LUMENS	360
COLOR TEMPERATURE	4000K

### TETHER SPECIFICATION

AVAILABLE LENGTHS	25m and 100m (82ft and 328ft)
MAXIMUM OPERATIONAL LENGTH	150m (492ft)
BREAKING STRENGTH	100kg, Kevlar-reinforced
BUOYANCY	Neutrally buoyant in freshwater, slightly positive in seawater
FEATURES	High visibility yellow with wear-resistant polyurethane jacket

### SENSORS

IMU	3-axis magnetometer, 3-axis gyro, 3-axis accelerometer
DEPTH / TEMPERATURE	1cm-resolution depth sensor with temperature calibration and display
OTHER	Internal barometer, battery meter

