



MINI
YOUR PERSONAL ROV



SEADRONE MINI

SeaDrone MINI is a professional ROV for all users. Realize major productivity gains with a system that you can carry and deploy in minutes. Maximize your uptime with easy-to-service modular components. Dive fast using SeaDrone's Top Gun Mode and operate in 3 knots crosscurrents. The MINI's control system actively stabilizes the vehicle and allows you to capture crisp and stable footage. The perfect ROV to operate beyond the reach of divers.

Recommended applications: Search and rescue and infrastructure inspections.

VEHICLE

Vehicle Weight in Air	16kg (base)	Surface Power System	400V @400W (optional)
Dimensions	624 x 467 x 193mm	Bumper Frame Materials	Marine HDPE
Depth Rating	300m	Enclosure Materials	Anodized Aluminum
Max Speed	3 Knots	Ballast System	Stainless steel 1.2kg (air)/ 0.77kg (underwater)

SEADRONE AUTONOMY

Waypoint Control	Navigate Automatically	Automatic Assistance	Depth, Heading, Pitch, Roll, Camera Pitch, Station Keeping and Altitude
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USER INTERFACE

Application Software	SeaDrone Control PRO	Control Input	iPad and Joystick
Live Video Stream	1080p 30fps	Communication Interface	Wi-Fi
Wi-Fi Frequency	5Ghz	Wired Links	Ethernet (optional)



CAMERA AND LIGHTS

Camera Sensor	IMX708	Luminous flux	7,200 Lumen
Resolution	4608 x 2592 px - 11.9 Mpx	Color temperature	5,700 K
Sensor format	7.4mm Diagonal	Color index	90 CRI
Video format	1080p - 30fps H.264	Variable intensity	Yes
Lens	Autofocus, 120° FoV		

POWER SYSTEM

Batteries	4 x 32V - 96Wh	Hybrid Power System	110 - 240 VAC, 400W
Charge Time	2.5 hours	Protection type	Continuous isolation and continuity monitoring
System Power	1,200W Max		

TETHER

Length	Up to 300m	Breaking Strength	150kg
Diameter	4.2mm	Buoyancy	Neutral in fresh water

SYSTEM SECURITY

Firmware	Signed and encrypted	Controls	System login required
Wireless	WPA2 Encryption	Communications	Signed and encrypted SSL messaging

SENSORS

IMU	0.1° pitch accuracy, 0.1° roll accuracy, 0.8° yaw accuracy
Pressure	0 - 40 bar range, +/- 0.25% FS accuracy, temperature sensor +/- 1 C°
Protection sensors	Leak detection, vacuum, current and temperature sensors
GNSS	Concurrent GPS/Galileo/GLONASS, -165 dBm sensitivity, 1 sec reacquisition time

OPTIONAL ATTACHMENTS

Multi-beam Sonar	Low frequency: 750 kHz, 0.1 - 120m range, 130° field of view High frequency: 1.2 MHz, 0.1 - 40m range, 130° field of view
Laser Scaler	0.15m - 2m range, 515nm wavelength, 10mW output power
Gripper	25 - 125 N grip force, 1.5 secs time to open
UT Probe	5 MHz frequency, 12.7 mm tip size, 1.5 - 200mm range in steel, 0.01 - 0.1mm resolution
USBL	300m range, 0.1m range resolution. 1° angular resolution
Side Scan Sonar	200m swath coverage, 450kHz frequency, 0.5° horizontal beam, 60° vertical
CP Probe	Probe tip material: SS 316
Primary DVL	0.05 - 125m range, 0.1 mm/s velocity resolution, 420kHz frequency