



300

m
Depth Rating

2

options
Power Modes

2

types
Sonar Systems

2

types
Camera Options

TOP 3 FEATURES

01

POWER — TWO OPERATING MODES

- OPTION A — Battery (Li-Ion 18Ah): up to 4 hours normal, up to 4+ hours light operations
- OPTION B — Outland Technology Power Supply (OTPS): powered through tether — unlimited runtime
- OTPS converts 100–240 VAC to 400 VDC through tether, then steps down to 15 VDC at ROV
- Continuous 1,000 W (66.8 A at 15 V) — full power in any current condition
- Battery hot-swap in under 30 seconds when battery mode is used

02

CAMERA — TWO SYSTEMS

- OPTION A — exploreHD USB Camera (DeepWater Exploration): 1080p, 400 m depth rated, ~150° FOV
- Automatic white balance, onboard processing for accurate color in low-light conditions
- OPTION B — MarineSitu C3 Stereo Camera: measures real distances between objects underwater
- Dual 7.5 cm baseline stereo sensors + 12 MP center color camera, rated to 1,000 m depth
- Individually calibrated for underwater use — distance, size, and 3D data without diving

03

SONAR — TWO TECHNOLOGIES

- OPTION A — Blue Robotics Ping360: 360° acoustic scanning sonar, 50 m range, 750 kHz
- Generates a full acoustic picture of underwater environment — initial site assessment
- OPTION B — Tritex 3000 UT Gauge: ultrasonic wall thickness measurement at a specific point
- Quantifies remaining wall thickness and corrosion metal loss — no surface prep required
- Both systems display real-time output in the operator interface via BlueOS

TWO OPERATING MODES

OPTION A

BATTERY MODE

- Lithium-Ion 18Ah — XT90 connector
- Up to 4 hours normal operations
- Up to 4+ hours light survey work
- Hot-swap battery in under 30 seconds
- Self-contained — no shore power needed
- Ideal for short missions and remote sites
- Depth rated to 300 m (aluminum enclosure)

OPTION B

OUTLAND TECHNOLOGY OTPS

- Input: 100–240 VAC / 50–60 Hz (wall outlet)
- Tether transmission: 400 VDC
- ROV output: 15 VDC / 66.8 A continuous
- Continuous power: 1,000 W — unlimited runtime
- No battery swaps — 8–12 hr shifts possible
- Built-in GFI / LIM safety circuit
- Tether options: 125 m or 250 m

POWER SPECIFICATIONS

BATTERY SYSTEM (OPTION A)

Battery Type	Lithium-Ion 18Ah
Connector	XT90
Nominal Voltage	14.8 V (4S Li-Ion)
Endurance — Normal Use	Up to 4 hours
Endurance — Light Use	Up to 4+ hours
Hot-Swap Time	Under 30 seconds — no tools required
Depth Rating	Rated to 300 m (aluminum enclosure)

OUTLAND TECHNOLOGY POWER SUPPLY — OTPS (OPTION B)

Manufacturer	Outland Technology — designed for BlueROV2
AC Input	100–240 VAC / 50–60 Hz (standard wall outlet)
Tether Voltage	400 VDC — minimizes power loss over tether
ROV Output	15 VDC / 66.8 A continuous
Continuous Power	1,000 W — full ROV operation in any conditions
Endurance	Unlimited — no battery swaps or downtime
Safety Circuit	Built-in GFI / LIM — auto shutoff on leakage

125 m or 250 m — high-power tether cable

CAMERA SYSTEMS — TWO OPTIONS

OPTION A

exploreHD USB CAMERA

- Manufacturer: DeepWater Exploration (DWE)
- Resolution: 1080p / 30 fps
- Depth Rating: 400 m
- Housing: Aluminum 6061 — waterproof
- Auto white balance — onboard processing
- FOV: approx. 150° diagonal in water
- Plug-and-play: BlueOS auto-detects stream

OPTION B

MarineSitu C3 STEREO CAMERA

- Manufacturer: MarineSitu
- Measures distances between objects underwater
- Stereo baseline: 7.5 cm between cameras
- Stereo sensors: 2x monochrome, global shutter
- Color camera: 12 MP center color sensor
- Depth Rating: 1,000 m
- Individually calibrated for underwater use

SONAR SYSTEMS — TWO TECHNOLOGIES

OPTION A

PING360 SCANNING IMAGING SONAR

- Manufacturer: Blue Robotics
- Type: 360° mechanical scanning sonar
- Range: 50 m
- Beam height: 25 degrees
- Frequency: 750 kHz
- Generates full acoustic picture of environment
- Ideal for initial site assessment

OPTION B

TRITEX 3000 — ULTRASONIC THICKNESS

- Type: UT (Ultrasonic Thickness) gauge
- Measures remaining wall thickness at a point
- Quantifies metal loss from corrosion
- Works through coatings — no prep required
- Output: actual vs. nominal vs. retirement
- Complies: ASME, API 570, DNV standards

LIGHTING

Standard Configuration

2 × 1,500 lm — dimmable LED, 135° beam angle

Upgraded Configuration

4 × 1,500 lm — dimmable LED, adjustable tilt

Camera Tilt Platform

+/- 90° (180° total — servo driven, Hitec HS-5055MG)

TECHNICAL SPECIFICATIONS

PHYSICAL

Dimensions (L × W × H)	457 mm × 338 mm × 254 mm
Weight with battery & ballast	11 – 12 kg
Weight without battery & ballast	9 – 10 kg
Frame	HDPE frame – aluminum flanges and end caps
Buoyancy Foam	R-3318 Urethane Foam – rated to 300 m
Ballast	9 × 200 g stainless steel weights
Cable Penetrators	18 × M10 / 6 available for expansion

PERFORMANCE

Maximum Depth Rating (Aluminum)	300 m / 990 ft
Maximum Speed	Greater than 1.5 m/s
Battery Endurance – Normal	Up to 4 hours (18Ah Li-Ion)
Battery Endurance – Light	Up to 4+ hours (18Ah Li-Ion)
Unlimited Endurance Option	Outland OTPS – tether-powered

T200 THRUSTER – Per Single Thruster (Source: Blue Robotics)

Motor Type	Three-phase brushless – flooded, water-cooled
Operating Voltage	7 – 20 V (recommended 12–16 V)
Max Thrust Forward @ 16V	5.1 kgf / 11.2 lbf
Max Thrust Reverse @ 16V	3.7 kgf / 8.2 lbf
Max Current @ 16V	Approx. 20.7 A
Design	Fully flooded – naturally pressure tolerant, no shaft seals
Note	Values are per individual thruster only

T500 THRUSTER – Per Single Thruster (Source: Blue Robotics)

Motor Type	Three-phase brushless – flooded, N52 neodymium magnets
Operating Voltage	7 – 24 V (max performance at 24 V)
Max Thrust Forward @ 24V	16.1 kgf / 35.5 lbf
Max Thrust Forward @ 16V	Approx. 70% more than T200 at same voltage
Max Power @ 24V	Just over 1,000 W
Max Current @ 24V	43.5 A
Magnet Rotor	Metal abrasion shield – protected N52 magnets

OFFSHORE OIL & GAS USE CASES

PIPELINE & FLOWLINE

Visual survey, CP readings, UT wall thickness via gripper, anode depletion, marine growth.

WELLHEAD & X-MAS TREE

Structural condition, CP monitoring, visual NDT, debris identification, pre-workover.

JACKET STRUCTURE

Level I visual of legs and braces, scour survey, flooded member detection, anode status.

RISERS & J-TUBES

Visual seabed to splash zone, CP readings, UT on accessible sections, clamp inspection.

SUBSEA CABLES

Route and condition survey of power and fiber optic cables, burial depth, damage detection.

PORT & COASTAL

Quay walls, dolphins, mooring hardware, intake/outfall pipes for desalination facilities.

INSPECTION DELIVERABLES

- Video: 1080p footage with depth, heading, and sensor overlay – MP4 + stills
- CP Survey Log: Potential readings vs. protection criteria – table and trend graph
- UT Thickness Map: Actual vs. nominal vs. retirement – ASME / API 570 / DNV format
- Photo Album: Annotated high-resolution stills of all findings – numbered per scope
- Final Report: PDF – preliminary within 24 hrs of survey, final within 72 hrs
- Raw Data File: CP and UT log in Excel format for client integrity database

AFTER-SALES SUPPORT

TECHNICAL SUPPORT

- Direct engineering contact
- Arabic & English support
- Eastern Province based
- BlueOS remote diagnosis

TRAINING

- ROV pilot training
- Delivered in Arabic
- Operation & recovery
- On-site or facility

SPARE PARTS

- Stocked in Saudi Arabia
- No shipping delays
- T200 & T500 thrusters
- Seals, ESCs, connectors

MAINTENANCE

- Preventive maintenance
- Same-day emergency
- Annual recertification
- Fleet management

GET IN TOUCH



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