

SAGAPRO

UNDERWATER DRONE - mini ROV



NATO STOCK NUMBER
2090-27-066-0084

↓ft	Depth Rating: 300 meters	🕒	Usage without time limit
🧠	Autopilot modes	📹	High resolution and tilt action camera
⚡	Speed: Up to 3 knots	☀️	2x4400 Lumen LED Lighting groups with tilt action
⚙️	6 thrusters for propulsion and high - maneuverability	🖥️	Operator console with 2 sunlight readable displays and powerful processor
🔌	300 floating cable and advanced cable retention system	⊕	Robot Arm, Sonar, USBL, Dome Camera etc. additional sensor integration
📦	3 waterproof carrying cases (ROV, cable and operator console)		

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The SAGA PRO Remotely Operated Underwater Vehicle (miniROV) is an industrial-grade underwater robot, fully developed and manufactured in-house to meet the demanding needs of underwater operations. With a maximum diving depth of 300 meters, and a surface-powered structure, SAGA PRO can perform long-duration, uninterrupted operations without any time limitations.

Equipped with high-resolution front and rear cameras and synchronized movable lighting systems, SAGA PRO provides clear and real-time underwater imaging. Its robotic arm with interchangeable end effectors enables the retrieval of detected objects from the seafloor to the surface. The system can also be integrated with an advanced sonar module, allowing it to perform detection and search missions even in zerovisibility conditions.

Thanks to its high maneuverability and advanced autopilot features, SAGA PRO offers users precise and effortless control. It can reach speeds of up to 3 knots, and supports the integration of various payloads, including temperature, depth, and compass sensors, as well as positioning systems and a 360-degree dome camera.

Specifically developed for search and rescue operations, SAGA PRO has been actively used for years by the Turkish Naval Forces Command, Coast Guard Command, and Gendarmerie General Command, participating in numerous successful missions both domestically and abroad.

All system components are lightweight and portable, designed to fit into three waterproof transport cases, enabling quick deployment even on compact platforms such as zodiac boats and ensuring high operational flexibility in the field.

UNDERWATER VEHICLE

Feature	Value
Weight	30 kg
Size	62,0 x 43,2 x 39,5 cm
Depth Limit	300 m
Endurance	Unlimited
Speed Limit	3 knots
Thrusters	6 Brushless Motors (4 vectorized horizontal 2 vertical) Propeller Protection Grip (optional)
Motion Capability	Up / Down, Forward / Backward Turn Right / Left, Strafe Right / Left
Autopilot Modes	Manual, Stabilize, Depth Hold
Autopilot Features	Adjustable Speed Gain, Input Hold
Front Camera	180° deg. Tilt Control, 94,9° Field of View 4K Color Video 0.01 Lux Color Light Sensitivity 0.01 Lux B&W Light Sensitivity Automatic Color - B&W Transition
Front Lights	180° Tilt Control 2x4400 lm max Brightness Brightness Control
Portable Fisheye Camera (optional)	Adjustable Positioning on Vehicle 220° Fisheye Field of View 1920x1080 px FULL HD Color Video 0.1 Lux Color Light Sensitivity
Portable Lights (optional)	Adjustable Positioning on Vehicle Adjustable Orientation 2x4400 lm Brightness Brightness Control

UNDERWATER VEHICLE

Feature	Value
Flasher	360° Beam Propagation Location Indicator on Power Loss
Pinger (optional)	37.5 kHz Locator Signal Water Activated 90 Day Working Duration
Sonar (optional)	720 kHz Signal Frequency 120° Field of View 512 Beams 0,2 - 120 m Range Scale 8 mm Range Resolution 5 - 97 Hz Uptade Rate
Underwater Positioning Sensor (optional)	USBL Transponder Omni-directional Multi-constellation GPS
Robot Arm (optional)	Single, 3 or 5, jointed versions, Interchangeable Gripper: Standard, Parallel, Cutter, Trident Jaw
Altimeter (optional)	100 meters Operation Range, Altitude Autopilot Functionality, Up to 3 mm Range Resolution, 500 kHz Operating Frequency



CABLE SYSTEM

Feature	Value
Weight	48 kg
Size	68,7 x 52,8 x 36,6 cm
Protection	IP64
Reel System	Cable Routing with Vargel Shaft, Lock System, Slipping, Spool Arm,
Floating Cable	225 m Cable Length (300 m opt.) 11 +/- 0,5 mm Diameter 80 kgf Working Load 450 kgf Breaking Load Kevlar Rope Neutral Buoyant with 0,98 gr/cm3 Density

GENERATOR

Feature	Value
Weight	50 kg
Size	60,5 x 49,0 x 49,5 cm
Fuel	Gasoline
Capacity	15,0 L
Type	Inverter
Voltage	230 V ac
Frequency	50 Hz
Output Power	3,5 kVA

OPERATOR CONSOLE

Feature	Value
Weight	23 kg
Size	61,0 x 43,0 x 26,5 cm
Protection	IP64
Voltage	100 – 230 Vac @ 50-60 Hz
Power	3 kW (max)
Security Features	Fuse, Circuit Breaker, Emergency Button, Leak Sensor, Leak Detector, Residual Current Monitor, Active Cooling Control
Computer Monitor	I7 Processor, 8Gb RAM, 250Gb SSD 2 items (21,5 - 12,1 inch) Color LCD Sunlight Readable Transflective High Brightness High Resolution
Peripherals	Keyboard (IP68), Mouse Speaker, Joystick
Interfaces	3 x USB 3.0, Ethernet, HDMI, VGA, WiFi, Bluetooth
Video Recorder	1 Tb HDD
Locator System	GNSS Receiver USBL Transducer (180° FOV) USBL Control Box





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ROBOTICS
Marine technologies of the future

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