



Diavolo III

Practicality and rusticity in a versatile and easy-to-operate equipment

The Diavolo III is designed to withstand the demands of the toughest environments and extreme conditions, extending the applications of compact equipment to new levels on jobs down to a depth of 500 meters.

Its strong and robust hand welded (TIG) and crystal blasted AISI 316L **stainless steel structural chassis**, is the basis of the modular design that allows to integrate several accessories that greatly expand the range of applications, making it a flexible and customizable equipment. This ROV is the perfect base for multipurpose operations.

Its stable, hydrodynamic design and its four **powerful 400 W each brushless magnetic coupling thrusters** give it great maneuverability underwater and the power to carry the necessary accessories on board. The **transversal thruster** is ideal when lateral movements are required.

These state-of-the-art thrusters, designed by Mariscope, do not use polluting coolants and are protected by an electronic circuit in case of overload.

Its **Full HD camera**, together with the **high power LEDs** integrated on the tilt mechanism or external, allow real-time surface visualization with high quality image.

Its **standard sensors** (*Depth Gauge, Compass, ROV and Tilt mechanism inclination, Power consumption*) and **automatic functions** (*Auto Depth/Auto Dive/Auto Head, Auto Gimbal*) facilitate the operation of the ROV, making it practical, robust, modular, and also easy to operate.

Its video console and wireless control console, installed in Pelican cases, make the system highly **transportable and flexible**.

It also has a **self-regulating power supply unit (PSU)** that automatically regulates the voltage loss of the umbilical cable, ensuring delivery of the maximum power needed for the thrusters and increased thruster efficiency.

This ROV also has the **lifetime warranty** that Mariscope offers with its products. It is the only manufacturer in the world to offer this warranty on its systems, with **no limit on working hours**.



■ designed,
■ engineered &
■ made in Germany

BUILT TO LAST



Diavolo III

STRUCTURAL AND OPERATIONAL SPECIFICATIONS

Operating depth	500 meters
Speed	3 knots
Dimensions (Length x Width x Height)	1000 x 650 x 500 mm
Structural chassis	Structural chassis made of AISI 316L stainless steel, hand welded (TIG) and crystal blasted.
Weight	45 - 95 Kg (depending on the equipment)

PROPULSION

Type of thrusters	Brushless electric motors with magnetic coupling. Motors in saltwater resistant aluminum housings with anodized surface and zinc sacrificial anode.
Thrusters power	400 W each.
Number of thrusters	2 horizontal longitudinal thrusters 1 horizontal transversal thruster 1 vertical thruster

IMAGE AND LIGHTING

Camera	Full HD (1920 x 1080) camera with integrated laser pointers in salt water resistant aluminum housing with anodized surface. Installed on external tilt system (160° swivel angle).
Type of lighting	High-intensity submersible LEDs (> 2,900 lumens each) in saltwater-resistant aluminum housings with anodized surface.
Lighting configuration	4 total LED spotlights: <ul style="list-style-type: none">• 2 LED spotlights attached to the same camera tilt system that rotate simultaneously with it to ensure correct illumination in any camera position.• 2 fixed LED spotlights installed to optimize front illumination. This configuration can be easily customized by the user, as the LED spotlights are attached to the chassis by specially designed fasteners to fit the ROV frame.

STANDARD SENSORS AND AUTOMATIC FUNCTIONS

Standard sensors	- Depth gauge - Digital compass - ROV and Tilt mechanism inclination sensor - ROV power consumption
Automatic functions	- Auto Depth / Auto Dive - Auto Head - Automatic Gimbal (automatic tilt correction to maintain the observed horizon)



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SURFACE UNITS

Video Console

Installed in waterproof Pelican case.
21.5" monitor, industrial computer with forced cooling and SSD recording drive with 500 Gb capacity.
Real-time Full HD transmission to surface via high-speed Ethernet.
On-screen display of piloting functions and sensor information.



Steering Console

Installed in Pelicase Hull IM2050 case with carrying strap.
Wireless, with range up to 500 meters and rechargeable LiPo batteries.
2 joysticks for ROV operation.
Control of lights on/power (by potentiometer) and all available piloting functions.



PSU (Power Supply Unit)

The PSU automatically regulates the voltage to compensate for the voltage drop along the umbilical cable, thus ensuring delivery of the maximum power needed for the motors and higher motor efficiency.
The PSU is integrated in the Video Console.



CABLE AND REEL/WINCH

Umbilical cable

Multipolar with polyethylene or polyurethane coating, high visibility yellow color and neutral buoyancy.
With Kevlar reinforcement and 2 ton tensile strength.



Reel / Winch

Stainless steel AISI 316L made, with sealed 18-way gold plated slip rings in a watertight container box.
For cable lengths up to 500 meters it is supplied with manual reel.
For lengths of 500-1000 meters it is supplied with an electric winch with the same characteristics.





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POWER REQUIREMENTS

Electrical power required 2,5 Kw

Type of power required Input selectable between single-phase 230 V AC or three-phase 380 V AC.

DURATION OF THE WARRANTY

Time Lifetime

Working hours No limits



OPTIONAL ACCESSORIES

Special sensors for measuring CO₂, H₂S, CTDO, oil in water, UTM/CP probes, and others on request

Special cameras and EOD lighting on request

Forward-looking or high definition/multibeam sonars on request

Different types of USBL tracking systems are available upon request

Customized manipulators specially adapted to customer requirements

Cavitation cleaning units



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