



## MAKO ROV

The Mako is SEAMOR Marine's newest ROV. With a large open frame design and versatile mounting options, this vehicle can carry a variety of accessories and has the power capacity to run them all at once.

The Mako's payload (14 kg standard, upgradable to 22.5 kg) allows users to install heavy instrumentation, including multi-beam imaging sonars. Users can easily mount and position accessories without any special tools. The ample space in the accessory bay also improves flow-through, which ensures maximum thruster efficiency, making it easy to fly the Mako no matter the payload.

The Mako comes standard with eight (8) SEAMOR-designed thrusters; four (4) of these are vertical thrusters that provide a more stable flight. The second pair of vertical thrusters offers a failsafe compared to the competition who only offers a single pair. We have arranged the Mako's four (4) horizontal thrusters to maximize forward thrust.

### FEATURES

- > Heavy payload: 14 kg (30 lb) standard; upgradeable to 22.5 kg (50 lb)
- > Intuitive controller
- > High-resolution colour, zoom camera
- > Variable speed & directional ROV control
- > Integrated controller with LCD monitor
- > 8 powerful thrusters
- > Digital Video Recorder (DVR)
- > Manual & automatic camera focus control
- > Depth-rated to 300 m (1,000 ft) or 600 m (2,000 ft) with deep-water model
- > Auto depth, auto heading functions
- > Leak detection warning system

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## DIMENSIONS & ATTRIBUTES

Depth Rating	300 m (1,000 ft) or 600 m (2,000 ft) with deep water model
Size (L x W x H)	840 mm x 635 mm x 674 mm (33" x 25" x 26.5")
Diagonal	890 mm (35")
Weight in Air	72 kg (160 lb) (8-thruster vehicle trimmed for fresh water)
Construction	Anodized aluminum, stainless steel, syntactic foam & marinegrade polymers
Payload	14 kg (30 lb) standard; can be upgraded to 22.5 kg (50 lb)

## THRUSTERS

Configuration	4 horizontal & 4 vertical/lateral thrusters, built-in short-circuit protection on each channel
Speed	2 knots (dependent on environment & configuration)

## AUXILIARY CAMERA WITH BUILT-IN LED LIGHTING

Type	Colour or black & white, low light
Format	NTSC or PAL
Focus	Fixed
TETHER	<b>Available in twisted pair or fibre optic configurations</b>
Length	335 m (1,100 ft) standard starting length; max. std. length 500 m (1,640 ft) for twisted pair; 625 m (2,050 ft) for fiber optic, on manual reel
Diameter	10 mm / 0.4" (nominal)
Breaking Strength	700 kg f, Kevlar reinforced
Weight in Water	Neutrally buoyant in fresh water

## FORWARD CAMERA & LIGHTS

Format	NTSC or PAL (full broadcast-quality)
Focus	Manual & Automatic
Zoom	3x optical, up to 32x total zoom
Tilt Range	+/- 90 degree rotation
Lights	2 x 1,500 lumens (3,000 lumens) dimmable high-intensity LED
Lasers	Optional parallel green lasers on 150 mm (6") baseline for scale reference

## CONTROL SYSTEM

- > Pelican Case mounted controller
- > Built-in 15" LCD monitor
- > Digital video recorder included
- > Video overlay: depth, heading, auto-depth, auto-heading, pitch/roll, tether turns counter, date & time

## SENSORS

- > Pressure / Depth
- > Compass heading
- > Pitch & roll
- > Dedicated leak & temperature sensors in both the electronics & camera canisters

## OPTIONS

- > Aux Camera
- > High brightness monitor
- > Extra monitor in power supply case
- > Upgraded payload (22.5 kg/50 lb)
- > Hand-held controller
- > Laser
- > HD video
- > Sonar integration
  - Imagenex 852 Sonar
  - Imagenex 881A Sonar
  - Imagenex 965A Sonar
  - Blueview M900
  - Soundmetrics Aris 3000
  - Tritech Gemini 720is
  - Tritech Gemini 720im
  - Tritech Gemini 720ik
  - Tritech Micron DST Sonar
  - Tritech Micron Echosounder
  - Coda Octopus Echoscope
  - C500 #D Sonar
- > USBL integration
  - LinkQuest Tracklink 1500LC USBL
  - Tritech MicronNav USBL
  - MicroNav USBL GPS antenna option
- > SEAMOR Auxiliary LED lights
- > Dual-function gripper (open/close & jaw rotation)
- > 7 Function Hydraulic Articulating Robotic Manipulator (7 F-H-ARM)
- > Interchangeable skid-mounted instrumentation or tooling platforms
- > CT & UT probe integration
- > Altimeter with auto altitude control