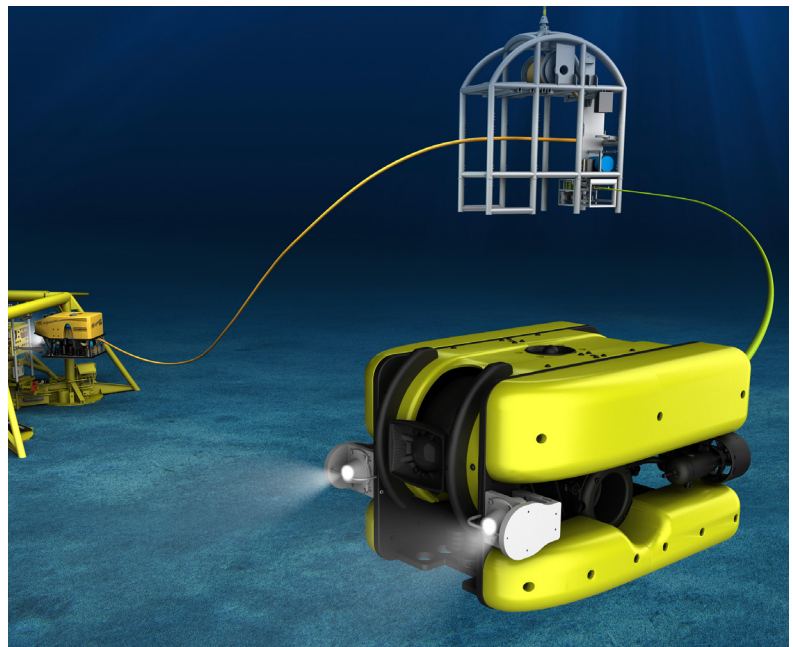


## Sea Maxx Satellite ROV System

The Sea Maxx ROV is a deepwater observation and inspection system designed to operate in tandem as a satellite to a larger work class ROV (WROV). The Sea Maxx's compact design makes it ideal for inspecting difficult-to-reach and confined areas.



### FEATURES

**Shares common LARS with WROV**

**High-resolution HDTV imaging**

**Depth rating: 10,000 ft / 3,000 m**

## Tether Management System (TMS)

The Sea Maxx system consists of an ROV and a small launch and recovery cage and TMS. The simple design of the TMS does not include slip-rings and holds up 394 ft / 120 m of ½ in diameter positively-buoyant cable. The system is mounted to the underside of the WROV's TMS, which provides AC power, hydraulics, and controls.

The Sea Maxx ROV is controlled via a fiber optic link supplied via the WROV's armored umbilical cable. The topside control central processing unit (CPU), display, and joystick controls are mounted alongside the WROV console and allow for tandem or independent operations.

## Precision Sensor Suite

The Sea Maxx is equipped with a state-of-the-art digital pressure and heading sensor suite which allows sensor data to be overlaid on the pilot's HDTV monitor.

## High-Resolution HDTV Imaging

An advanced undersea HDTV camera is optimized for wide angle, close-up inspection and has the ability to zoom to capture additional high fidelity detail. Images are recorded, without loss of quality, by a high resolution digital video recorder. Upon completion of ROV operations, a customer is provided with a full-resolution, digital HD video and still images on an SD memory card, hard drive, or Blu-Ray disc.

## Digital Photos

The high quality optics of the Sea Maxx's camera enables operators to obtain 2.0 mega-pixel digital images. Digital photos can be taken at anytime during operations with or without ROV sensor data overlay.

## Optional

- » Scanning sonar
- » Fiber optic gyro (FOG) - The magnetic fluxgate heading sensor automatically corrects while the ROV is operating around steel structures

## In Development

- » Articulated claw "hook-grab-cut"
- » Laser scaling
- » 3D HD camera



## Technical data

### Depth Rating

Depth	10,000 ft / 3,000 m
Optional depths	13,000 ft / 4,000 m 24,600 ft / 7,500 m (in development)

### Dimensions/Weight

Dimensions (LxWxH)	32 x 24 x 18 in / 81 x 60 x 45 cm
Weight	In air: 244 lb / 104 kg In water: positive 2.5 lb / 1.1 kg
Weight with TMS	In air: 900 lb / 408 kg
Payload	10 lb / 3.6 kg in seawater User adjustable with lead weights

### Speed

Forward	4.2 ft/sec / 1.3 m/sec
Lateral	1.6 ft/sec / 0.5 m/sec
Vertical	2 ft/sec / 0.6 m/sec

### Thrusters

Forward	145 N
Lateral	45 N
Vertical	64 N

### Camera Sensor

HD camera 1920 x 1080i superwide 3.8x zoom
110° FOV @ full wide
0.1 lx light sensitivity
Optical glass dome port
HD-sdi fiber optic video link
Tilt: up +45° / down -90°

### Heading Sensor

Micro strain nini fyro
Optional - fiber optic gyro (FOG)

### Depth Sensor

± 1 ft resolution at 10,000 ft /
± .3 m resolution at 3,000 m

### Lighting

2 x 40 W LED lights
Variable intensity with diffusers

### Vehicle Power

1,500 V AC 50 / 60 Hz 2.2 kW Peak
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### Tether Cable

Size	0.50 in / 1.3 cm Ø
Length	393.8 ft / 120 m
Breaking strength	749.6 lb / 340 kg
Positively buoyant	.004 lb/ft / .006 kg/m



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