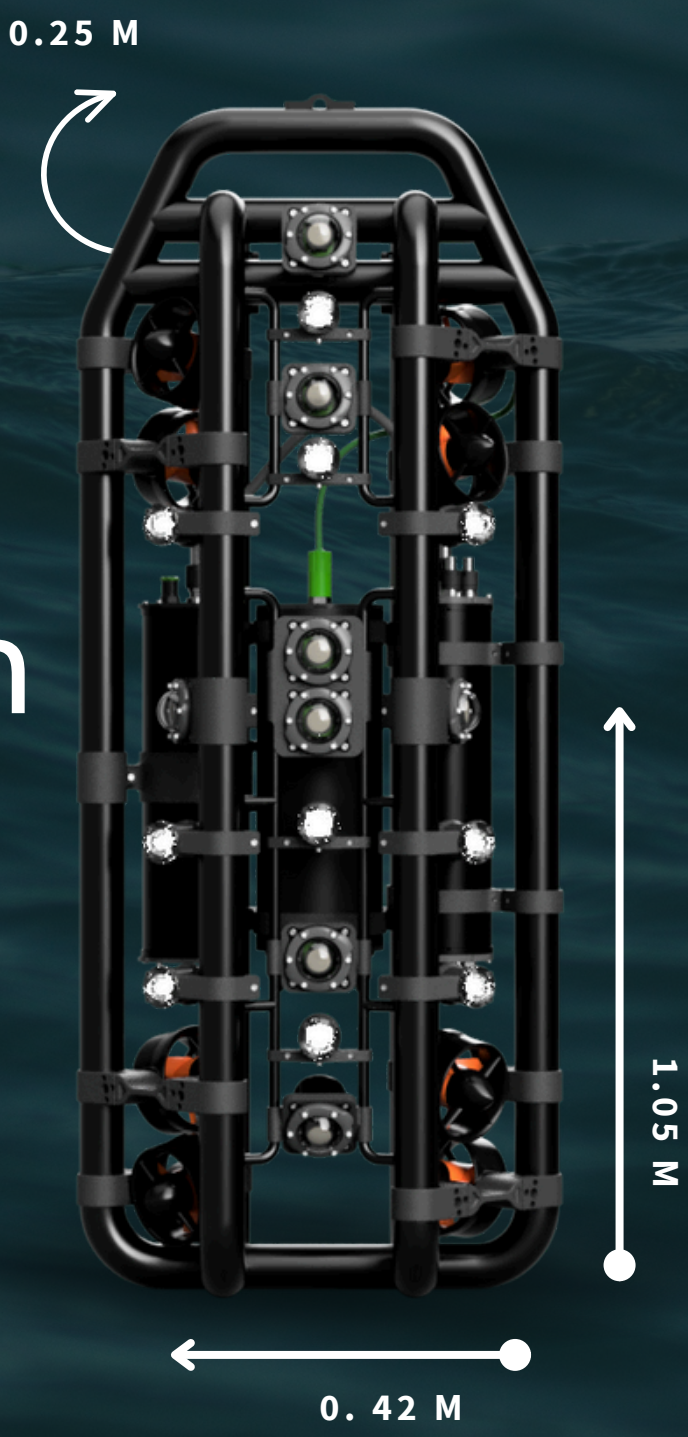
BLUE ATLAS
ROBOTICS

Sentinus Specification Sheet



www.blueatlasrobotics.com

BLUE ATLAS ROBOTICS

Sentinus

Specifications



Fast Survey
Up to 3000m2 of survey per hour

Large Area Scans
Wide-area documentation

Automatic Survey
Computer-driven navigation

Orientational Freedom
Operates in any orientation

Easy Deployment
Light-weight 20 kg robot

TECHNICAL SPECIFICATIONS

Dimensions (mm)	L250 x W420 x H1.050
Weight in Air	20 kg
Max Depth Rating	100 m
Onboard Data Storage	2TB SSD
Exterior Components	Aluminium enclosures, Nylon, Acrylic

Thrusters	8 x 390 W
Run-time (Battery)	~60 minutes
Run-time (Topside Power)	Continuous
Orientations of Operation	6° of freedom in motion Full rotational freedom
Operating Temp	-5 to +38 °C

AUTOPILOT CAPABILITIES

- **Visual based Auto-distance to target**
- **Advanced modes: Flat or Complex geometri**
- **Auto-depth**
- **Self-stabilizing/maintian pitch and roll**

TETHER

Tether type	Fiberoptic or Fiberoptic/Power
Portability	Detatchable
Available lengths	100m, 200m, Up to 500m upon request

SENSORS

Depth Sensor	Resolution: 0.2 mbar
IMU	9-axis gyro, accelerometer, magnetometer

BATTERY

Nominal Voltage	14.8 V
Nominal Energy	230 Wh
Nominal Capacity	18000 mAh

LIGHTING SYSTEM

LED Lights	10 x 1500 Lumen lights

CONTROLLER

Controller	Portable, 10.1", wireless RF, IP65 2 TB harddrive.

SPOOL

Spool	Fiberoptic / Manual

BLUE ATLAS ROBOTICS

Sentinus Specifications



TECHNICAL SPECIFICATIONS

CAMERA SYSTEM

Camera Units	8
Hardware Syncronized	
Video	Full HD
Frame Rate	30 fps
Sensor	AR0234
Shutter Type	Global Shutter
Optical Format	1/2.6"
Pixel Size	3µm x 3µm
Sensor Active Area	1920H X 1200V
Lenses	FFI 4mm, F-stop F1.8, IR-cut filter

PAYLOAD SPOT

Sonar: Oculus MD-Series fully supported

Payloads up to 2 kg can be supported, restrictions on dimension/power supply/data transfer migth apply

SENTINUS GO!

Video Streams - simultaneous	2
Telemetry data	
Live Point Cloud / Plain Fitting	
Control parameters	
Camera system control	
Autopilot Feature	



TOPSIDE POWER

Topside	3000W
Subsea	2000W
Input Power	230 VAC 50-60 hz

SENTINUS PACKAGE

Sentinus

Tether

Controller

Tool Box (not displayed)

Topside Power (not displayed)



BLUE ATLAS ROBOTICS

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