



World Class Underwater Technology

# Echo Altimeter

## Features:

- Compact and robust design
- Acoustic range up to 100m
- Depth ratings of 1000m and 3000m
- Analogue or digital output
- Free running outputs
- Wide range of supply voltage options
- Improved, faster scan rate
- Field variable frequency selection

## Applications:

- ROV or AUV operations
- Hydrographic surveying
- Bathymetric systems integration
- Wave height measurement
- Subsea structure monitoring
- Positioning of ROTVs
- Dredging operations
- CTD and Oceanographic sensors integration



The Sonavision Echo Altimeter boasts the modern design commonly found on the Sonavision range of subsea sensors. It also has the enviable position of being the most accurate altimeter available today on the market.

The Echo comes supplied in a choice of two frequencies, 200kHz and 500kHz, thus allowing the Echo Altimeter to be operated within ranges of 0-100m and 0-50m respectively.

With electronics supplied for both frequencies being identical, a quick transducer change will switch from one frequency to the other, even in the field.

Accuracy of the system is second to none as it has a 10 degree beam at 200kHz, a 6 degree beam at 500kHz and full 32 bit range resolution, so is capable of measurements to 0.1875mm

Communications are available in RS232/RS485, fully compatible with Sonavision's sonar, bathy and profiler software packages and links directly into Sonavision's Hermes MM-A Multiplexor.

The Echo Altimeter has a range of user configurable data stream formats to allow data output. An analogue output is also available with the industry standard output system.

## Technical Specifications

### Mechanical

Length	130mm
Diameter	79mm
Weight	400g (in water) Acetal
Connector	LPBH6M as standard, other available options on request

### Housing Materials

1000m	Stainless Steel
3000m	Titanium

### Electrical

Supply Voltage	12-48VDC, nominal 200mA at 24V
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### Analogue Output

0-5V, 0-10V (Software adjustable)

### Data Communications

RS232/RS485

### Operating Frequencies

Frequency	200kHz	500kHz
Range (min)	0.5m	0.3m
Range (max)	100m	50m