



## Easytrak Alpha Portable USBL System



### Key Features

- Compact USBL system
- Rapid deployment
- Simple to use
- Cost-effective

Easytrak Alpha Portable is the compact, carry on version of the Applied Acoustics' range of lightweight USBL tracking systems that use a vessel mounted transducer array to calculate the position of a subsea target equipped with an acoustic beacon.

Quick to deploy the Alpha Portable USBL system is ideally suited for small subsea vehicle operations or diver tracking.



## Technical Specification

### EASYTRAK ALPHA PORTABLE, MODEL EZT-2655

Dimensions	Console: 411 x 323 x 168mm, excluding cables
Weight	Console: 6.0kg approx
Power supply	Input: 115Vac – 230Vac 47-63Hz typically 2A Output: 18vdc up to 4A depending on input dc voltage
Battery life	2-3 hours from built-in battery pack Auxiliary battery pack available
Display	Colour LCD 10.4 inch display (diagonal) Active area, 211.2mm x 158.4mm
Input control	Full QWERTY keyboard with integrated mouse
Communications	2 x RS-232 (1) External GNSS + Heading and (2) Data Out 1 x GNSS Antenna Connector All RS232C inputs comply with EIA (Electronics Industry Association) RS232C standard. 1 x USB connection to external PC



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Internal GNSS Receiver	SiRF Star III Chipset Receiver <10m, 2D RMS <5m 2DRMS, SBAS (WAAS, EGNOS, MSAS...) corrected
External GNSS/Heading	GNSS NMEA messages: GGA and RMC Heading NMEA messages: HDT, HDG, HDM
Data Output	AAE, TP-EC W/PR, \$PSIMSSB, \$PSIMSNS, \$GPRMC, Sonar SSS - \$GPGGA (Vessel position), \$GPVTG (Vessel track and speed) \$GPTLL (Target position) Data logging to HD
Beacon types	Transponders and Responder (1)
Channels	4 displayed from 35 pre-defined channels
Interrogation interval	1, 2, 4 or 8 second intervals
Responder output	Positive 12V pulse 10ms long
Operating temperature	-5 to 30°C
Storage temperature	-5 to 45°C

### TRANSDUCER, TYPE ETM903C

Dimensions	Transducer: 370mm long x 100mm diameter Cable: 12.5mm diameter, yellow polyurethane sheathed Standard length is 20m
Weight	Transducer: 4.6kg in air, 2.6kg in water approx Transducer housing material: PVC
Depth rating	20m
Operating Temperature	-5 to 30°C
Storage Temperature	-5 to 45°C

Optional higher accuracy transducer, the ETM902C, also available

### ACCURACY / PERFORMANCE

Slant range resolution	10cm
Position accuracy	2.0° RMS, 3.5% of slant range. Excluding effects due to GPS error, incorrect VOS, ray bending, compass, pitch and roll effects, and acceptable S/N ratio
Transducer	MF frequency band
Transducer beam pattern	Hemispherical
Interrogate power	Typically 186dB re.1μPa@1m
Heading sensor accuracy	<0.5° RMS
Tilt sensor accuracy	Accuracy ± <1.0° RMS Range ± 80°



Due to continual product improvement, specification information may be subject to change without notice.  
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