



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 External GPS In and Data Out 1x USB port GPS Antenna connector
Internal GPS / DGPS	SiRF Star III Chipset Receiver <10m, 2D RMS <5m 2DRMS, SBAS (WAAS, EGNOS, MSAS...) corrected



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External GPS / DGPS Input	NMEA; GLL, GGA, RMC
Data Output	AAE, TP-EC W/PR, \$PSIMSSB, \$PSIMSNS, \$GPRMC, Sonar SSS - \$GPGGA (Vessel position), \$GPVTG (Vessel track and speed) \$GPTLL (Target position)
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.
Easytrak Alpha Portable 2655/June 2015
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