

Easytrak Lite USBL System, Model 2661



Key Features

- Accurate and stable USBL system
- Easy to operate
- Tracks on the horizontal
- Approved for military use

Easytrak Lite is an Ultra Short Baseline (USBL) underwater positioning and tracking system centred on a multi-element, single transducer that transmits and receives acoustic signals to dynamic subsea targets from which range, bearing and depth information can be determined. Designed for installation in a vessel's operations room, the main transmit and receive electronics power supply and digital signal processing have all been mounted within a rugged 2U enclosure for connection to a laptop or desktop PC.



Technical Specification

EASYTRAK LITE, MODEL 2661

Dimensions	19" Rackmount. 2U. 482 x 88 x 345mm
Serial communications	RS-232. USB to RS-232 adaptors available
Power requirements	90-250Vac at 50VA
PC requirements (min)	1.2GHz running Windows XP, Windows 7. USB or up to 3 x RS-232 port. Colour display, 1024 x 768. CD Rom drive
Data Output	AAE format, TP-2EC TP-EC W/PR, Simrad 300P, Simrad 309 (binary) \$PSIMSSB, \$PSIMSNS (One string after the other for each fix) \$GPRMC (Suitable for Coda Octopus 460P and others) KLEIN 3000, \$GPGGA and \$GPVTG
Compass Input	TCM-2.X, SGB-HTDS, SGB-HTDt, \$HEHDT, \$HDHDM, \$HDHDT, \$HDHDG
VRU Input	TCM-2.X, \$HCXDR, TSS1
GPS / DGPS Input	NMEA; GLL, GGA, RMC
Sync. Input	TTL type 5 Volt pulse. Triggers on rising edge.
Responder Output	Positive 12V pulse 5ms long

Easytrak Lite Technical Specification continued...

TRANSDUCER, TYPE ETM902C

Aluminium-Bronze transducer. May be tilted by 20° for towfish tracking

Dimensions	375 mm long x 100 mm diameter
Weight in air/water	9.5kg / 7 kg
Depth Rating	50 metres

TRANSDUCER CABLE

Diameter	12.8 mm nominal
Colour	Yellow
Length	20 – 60 metres standard lengths available
Connectors	Supplied
SWL	20 kg (Allows transducer to be deployed from cable)

ACCURACY/PERFORMANCE

(Accuracy is based on the correct speed of sound being entered, no ray bending and an acceptable S/N ratio)

Slant Range accuracy	10 cm
Position accuracy, standard	1.40° drms. 2.5% of slant range Acoustic accuracy excludes heading errors
Position accuracy, high	0.60° drms. 1.04% of slant range. Acoustic accuracy excludes heading errors
Bearing Resolution	0.1° displayed. Internally calculated to 0.01°
Heading sensor accuracy	0.8° rms standard. +/- 0.1° resolution/repeatability
Pitch/Roll sensor accuracy	+/- 0.2° rms. +/- 0.1° resolution/repeatability
Channels	4 channels displayed from 134 stored
Frequency Band (MF)	Reception 22 - 32kHz Transmission 17 - 26kHz
Tracking Beam Pattern	> Hemispherical
Beacon Types	Transponders, Responders and Pingers
Interrogation Rate	0.5 - 30 seconds or external key
Transmit Power	178/185/190dB software controlled
CE Marking	Externally assessed for immunity and missions. Conforms to 89/336/EEC



APPLIED ACOUSTICS
Underwater Technology

Due to continual product improvement, specification information may be subject to change without notice.
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Applied Acoustic Engineering Ltd

T +44(0)1493 440355
F +44(0)1493 440720
E general@appliedacoustics.com
W www.appliedacoustics.com