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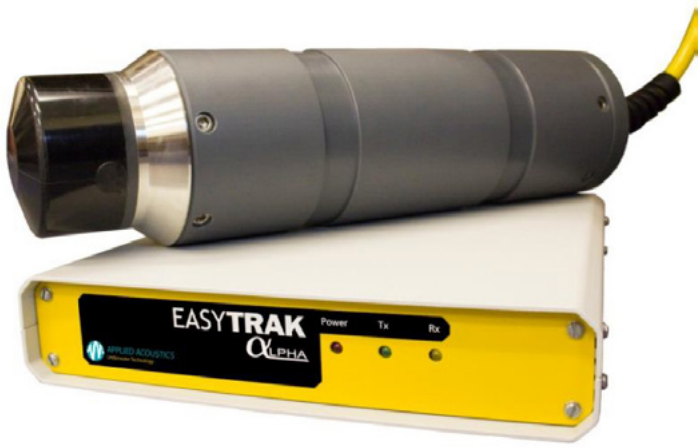
**TAE KWANG ELECTRONICS CORPORATION**
5th FLR., K-BLDG., 3,
SANGAM-RO 41-GIL, GANGDONG-GU
SEOUL 05307, KOREA

**T** 02 479 2703 - 4
**E** taekwang@tkec.co.kr
**W** tkec.co.kr

# Easytrak Alpha USBL System, Model 2665




## Key features

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

## Easytrak Alpha Portable Overview

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.

## Alpha Portable Technical Specification

**EASYTRAK ALPHA PORTABLE, MODEL EZT-2665**

| | |
|---|---|
| **Dimensions** | Console: 255 x 60 x 315mm, excluding cables |
| **Weight** | Console: 2.6kg approx |
| **Power Supply** | Input: 115Vac – 230Vac 47-63Hz typically 2A<br>Console Input: 12-18Vdc up to 2A depending on input dc voltage |
| **Communications** | 2 x RS-232 (1) External GNSS + Heading and (2) Data Out<br>1 x GNSS Antenna Connector<br>All RS232C inputs comply with EIA (Electronics Industry Association) RS232C standard.<br>1 x USB connection to external PC |
| **Internal GNSS Receiver** | SiRF Star III Chipset Receiver<br><10m, 2D RMS<br><5m 2DRMS, SBAS (WAAS, EGNOS, MSAS...) corrected |

| | |
|---|---|
| **External GNSS/Heading** | GNSS NMEA messages: GGA and RMC<br>Heading NMEA messages: HDT, HDG, HDM |
| **Data Output** | AAE, TP-EC W/PR, $PSIMSSB, $PSIMSNS, $GPRMC,<br>Sonar SSS - $GPGGA (Vessel position),<br>$GPVTG (Vessel track and speed)<br>$GPTLL (Target position)<br>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 5ms long. BNC connector |
| **Operating temperature** | -5 to 30°C |
| **Storage temperature** | -5 to 45°C |

### TRANSDUCER, TYPE ETM903C

| | |
|---|---|
| **Dimensions** | Transducer: 370mm long x 100mm diameter<br>Cable: 12.5 mm diameter, yellow polyurethane sheathed<br>Standard length is 20m |
| **Weight** | Transducer: 4.6kg in air, 2.6kg in water approx<br>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<br>VOS, ray bending, compass, pitch and roll effects, and acceptable S/N ratio |
| **Transducer** | MF frequency band |
| **Transducer beam pattern** | Hemispherical |
| **Interrogate SPL** | Typically 186 re. 1µPa@1m |
| **Heading Sensor Accuracy** | <0.5° RMS |
| **Tilt Sensor Accuracy** | Accuracy ± <1.0° RMS Range ± 80° |

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