

TrackPoint 3

Ultra Short Base Line Acoustic Tracking System

Next Generation Trackpoint...

- TP3; 4 Target Consecutive Tracking
- TP3-S; 4 Target Simultaneous Tracking
- Synchronization for 4 Individual Responders
- GPS input for timing (50ms accuracy)
- 3 Comports ► PC; Compass; DGPS
- Can be used with existing ORE Hydrophones & Beacons
- Compatible with Windows 98, NT, 2000, and XP
- Runs on 90 to 250 VAC



⇐ Rack Mounted Configuration (6U) with Keyboard/ Display and PC.

Top: PC
Middle: Keyboard/Display
Bottom: TP3

With Keyboard/Display accessible ⇨

With only Display accessible ↓



Desktop configuration with laptop ↓

The new Trackpoint 3 System consists of a Signal Interface Module housed in a 2U (3.5") rack mount chassis (19"). It can be configured for a desk top application with a PC or laptop running the ORE Trackman Windows® software or coupled with a 2U PC and 2U Keyboard/Display as a replacement for the existing TP2 C/DM. It has improved bearing resolution and slant range accuracy. The software is user friendly and intuitive. The interface is standard RS/232 to a PC running a compatible Windows® operating system. The TP3 is calibrated for exceptional accuracy.



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Specifications

TrackPoint 3

System Performance

Transponder / Responder: Absolute accuracy in horizontal position (over entire hemisphere) (does not include motion)	± 0.5% RMS of slant range
Repeatability Accuracy: (does not include motion)	± 0.3% RMS of slant range
Azimuth resolution:	0.1 degree
Slant range accuracy:	± 0.3 meters RMS (with correct sound speed)
Slant range resolution:	0.2 meters
Signal to noise ratio:	40 dB @ WB filter
Receive frequency:	22 to 30 kHz in 1 kHz increments
Transmit frequency:	8 to 30 kHz with 400 watts output (17-21 kHz opt)
Receive pulse width:	1.3 milliseconds minimum
Transmit pulse width:	1 to 15 milliseconds (Dual Interrogation Xmit also)

Operational controls via supplied software

Up to 4 Target selection	Interrogation rate (0.5 to 20 seconds)
Tracking On/Off	Scaling (feet, meters, yards)
Target Type	Filtering Levels
Receive Threshold/Filter Q	Frequencies and Pulse Widths

Weights and dimensions

Signal Interface Module (4450A) (2U rack)	L 18.9 in (48.0 cm) x H 3.46 in (8.8 cm) x D 20 in (50.8 cm) 21 lbs (9.5 kg)
Hydrophone (4610B)	L 25 in (63 cm) Dia 6 in (15 cm) 30 lbs (14 kg)
Hydrophone/Remote Amp (4211A/4740A)	L 22.75 in (57.8 cm) Dia 2.75 in (7 cm) 10.5 lbs (4.8 kg) (ASB) / L13.38 in (34 cm) x H15.38 in (39 cm) x D 6.25 in (15.9 cm) 24 lbs (10.9 kg)
Cable (4110B)	L 50 ft (15 meters) diameter .5 in (1.3 cm) 8 lbs (3.6 kg)



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