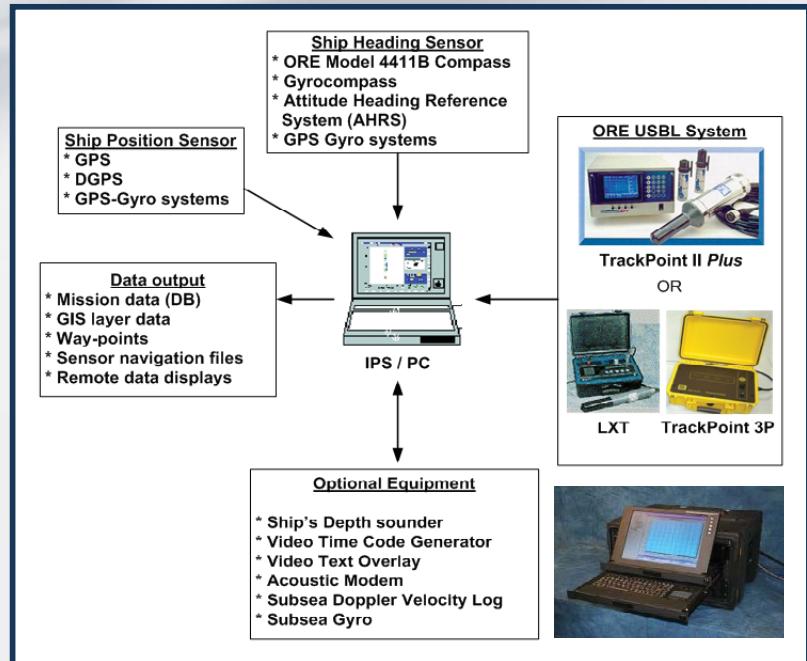
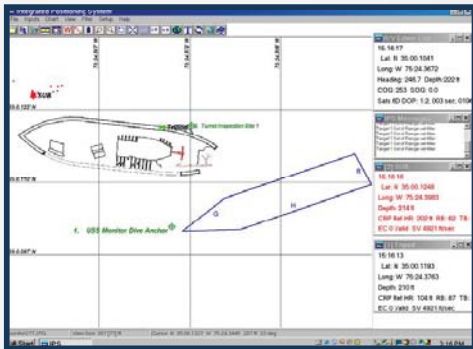


# IPS

## INTEGRATED POSITIONING SYSTEM (SOFTWARE)

### APPLICATIONS

- ROV tracking including support for Doppler Velocity Log (DVL) based navigation
- Manned Submersible Tracking including DVL based navigation
- UUV/AUV tracking including Acoustic modem support
- Survey / Towfish Tracking
- Initial site Location
- Pipeline Survey



The Integrated Positioning System (IPS) is a PC based software package specifically designed for tracking and navigation of a surface vessel and multiple submerged targets (e.g. AUV, ROV, submersible, tow fish, diver etc). The IPS software supports the integration of an ORE acoustic tracking system (TrackPoint 3, 3P, TrackPoint II Plus, or LXT), a ship's GPS, heading sensor (magnetic, gyrocompass, GPS- Gyro) and, if available, a motion sensor (VRU, AHRS).

The position of the submerged targets relative to the support vessel is determined by an ORE TrackPoint or LXT system and sent to a PC via an RS-232 or Ethernet link. The actual position (latitude/longitude/depth) of the submerged target is then calculated based upon the range and true bearing relative to the ship's position as supplied by a GPS receiver. The results are then graphically displayed on the PC. The data may be stored and retrieved for later processing.

For more information please visit [ORE.com](http://ORE.com)

sales@ORE.com | USA 1.508.291.0960

# IPS

## INTEGRATED POSITIONING SYSTEM (SOFTWARE)

### KEY SPECIFICATIONS

#### FEATURES

Easy to use graphical user interface

3D sensor calibration and display tool

Online help

Navigation of the support ship or a submerged target relative to any other target or known location

Multiple display modes (GIS layers, Lat/Long, UTM, North-Up, Heading-Up)

GIS data support (display, conversions & output)

\* Vector formats (.SHP, MIF, .BML, .DWG, .DXF, .DGN, VPF)

\* Image formats (.BMP, .TIF, .JPG, .PCX, .TGA, BSB/KAP) with Image geo-referencing file (ESRI World, Blue Marble.RSF, Geo Tiff Header) and map transformation model (none, Affine, 1st and 2nd order polynomials)

\* Supports 12,000 pre-defined coordinate systems (165 Ellipsoids, 630 Datums)

\* Create custom coordinate systems

UTC Time synchronization

Geodetic conversion utility

Survey line generator

Variety of data output formats. Ready for interfacing with other data acquisition and positioning systems

Supports video text overlay and time code generators

Playback mode and data post processing

USBL and sensor calibration support

Real time and post processing data filtering (Kalman filtering)

Doppler Velocity Log-based navigation support

#### PC REQUIREMENTS

Processor: Pentium or Higher (800 MHz)

OS Version: Windows 98SE / ME / W2k / XP

Minimum 256 MB RAM

Minimum Screen Resolution 1024 x 768

One available RS-232 serial (com) port used with a serial Multiplexer or USB port for RS-232 to USB converter or Ethernet for UDP connection for TP3

For more information please visit [ORE.com](http://ORE.com)

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