

# HYDRO<sup>pro</sup>

## *Hydrographic Survey Software*

### **Key features and benefits**

- **Easy to learn and use**
- **Supports multiple sensor inputs**
- **Data is stored directly into a single database**
- **Point and click operation under Windows 95/98 and NT**
- **Graphical data cleaning**
- **Designed for global operations**
- **A complete 'field to finish' system**

Trimble's HYDRO<sup>pro</sup>™ software is a fully integrated, easy to use software solution for today's hydrographic surveyor. Designed with superior performance and efficiency in mind, it allows for significant improvements in productivity on even the most involved marine survey application.

HYDRO<sup>pro</sup> software builds on over a decade of development and industry-based experience. It combines the many strengths of its predecessor – the HYDRO™ software – with the latest advances in technology to meet the demands of today and tomorrow.

### **Superior performance and productivity**

The HYDRO<sup>pro</sup> software operates on both Windows 95/98 and Windows NT. It provides an easy to understand graphical interface and flexible configuration to allow for immediate gain with minimal training. The software supports multiple sensor inputs, ranging from heading sensors to tide gauges and echo sounders. Combined with Trimble's popular DGPS or RTK receivers, it provides precise 3D positioning in real-time.

HYDRO<sup>pro</sup> software uses advanced time-stamping techniques for precise data synchronization. All data is stored in a single Microsoft Access database file to allow for more efficient file management activities.



*The Next Generation of Hydrographic Survey Software*

The flexible operation of the HYDRO<sup>pro</sup> software allows any number of vessels and guidance objects (lines, routes and targets) to be monitored from a single location or across a network. Background files can be displayed graphically to show position in relation to guidance objects, coastal features, and so on.

The simple file structure and graphical editors allow depth and tide data to be filtered, edited, and integrated more efficiently than ever before.

### **A comprehensive system**

Included in the software are the proven post-processing and plot-

ting modules: Contour, Profile, Volume, and Digitize. Together with the on-line Navigation software, these modules make the HYDRO<sup>pro</sup> software one of the most comprehensive hydrographic surveying packages available.

Like its predecessor, the HYDRO<sup>pro</sup> software is synonymous with productivity and quality. Combining the benefits of easy to learn Windows software with the flexibility to meet future needs, Trimble's HYDRO<sup>pro</sup> software offers you the complete marine survey solution.

# Trimble

# HYDRO<sup>pro</sup>

## Hydrographic Survey Software

### APPLICATIONS

- Port and harbor survey and maintenance
- Marine construction
- Environmental surveys
- Vessel tracking
- Industrial marine applications

### FEATURES

- Operates on Windows 95/98 or Windows NT 4.0 operating system for simple point and click operation
- Fully configurable Geodetic database with 48 pre-defined ellipsoids and over 500 pre-defined coordinate systems
- Graphical vessel shape editor
- Built-in-site coordination calibration
- Automatic switching to backup (secondary) position and attitude sensors
- Positioning for real-time applications
- Multiple vessels and guidance objects (targets, runlines, routes)
- Interactive, real-time Plan View Map
- Configurable survey text displays
- Log of operators notes and system alarms
- DXF background display files supported
- Multiple sensor inputs (limited by hardware only)
- Real-time depth profile display
- Project information and survey data all stored in a single Microsoft Access database file
- Heading from dual positioning devices
- Visual equipment status warnings
- Fully configurable equipment timing (Latency, Pulse Per Second, 'time-outs')
- Data time stamping to 1millisecond precision
- Output of data to other devices in real-time (RS-232)
- Depth, heave, and tide editing by interactive graphics or batch processing
- Graphical displays show both the raw and composite data on same screen
- Generates user definable ASCII format and proprietary data files for post-processing
- Supports industry standard ASCII formats for import and export of data
- Bundled, proven processing modules of Contour, Profile, Volume, and Digitize
- On-line help and training
- Translatable

### TECHNICAL SPECIFICATIONS

#### Minimum Configuration

<b>Processor</b>	Pentium 100
<b>RAM</b>	32 MB
<b>Hard drive</b>	1 GB
<b>Monitor</b>	800 x 600 minimum resolution
<b>CD ROM drive</b>	Internal or External
<b>Operating system</b>	Windows 95/98 or Windows NT

#### Recommended Configuration

<b>Processor</b>	Pentium 166
<b>RAM</b>	64 MB
<b>Hard drive</b>	2 GB
<b>Monitor</b>	17" SVGA
<b>CD ROM drive</b>	Internal or External
<b>Operating system</b>	Windows NT

### OPTIONS

Components such as computers, echosounders, and interface cards can be ordered through Trimble.

- 4-port serial PCMCIA adapter
- Dual VGA card
- Training
- Third party processing for multibeam and large data sets

### ORDERING INFORMATION

HYDRO<sup>pro</sup> software is available standard with manuals, security key(s), and software on CD.

<b>HYDRO<sup>pro</sup> Software</b>	<b>Part Number 34798</b>
<b>HYDRO<sup>pro</sup> Navigation™ Software (only)</b>	<b>Part Number 34799</b>
<b>HYDRO<sup>pro</sup> Navigation Software Upgrade</b>	<b>Part Number 34800</b>

For up to date information please refer to our web site.

<http://www.trimble.com/marine>

*Specifications subject to change without notice.*



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