HYDRO*pro* Construction

Marine Survey and Construction Software

Trimble's HYDRO*pro*™ Construction software is a comprehensive software package for marine and waterway construction tasks that require precise positioning. With the HYDRO*pro* Construction software, projects can be completed faster, safer, and more economically than with conventional methods.

The software builds on the patented and proven techniques of the Trimble HYDRO*pro* Navigation software. It encompasses all of the hydrographic surveying features offered in HYDRO*pro* Navigation, plus multiple 'flavors' for specific marine construction applications, namely Pile, Rig, and Dredge.

Multiple software flavors for specific applications

The Rig flavor enables you to position and manage tugs, rigs, and barges. You can view the vessel image at your target location and use bullseye displays for precise guidance. Once in position, you can carry out final positioning with real-time statistics, and print a text report or export your data to a spreadsheet for further analysis.

Pile is used for precise marine pile positioning applications, such as bridge and wharf construction.

With the Dredge flavor, you can load a design channel shape into the software and use it to help you precisely position the dredge head. The software provides dredge head tracking that, along with RTK, inclinometers, and depth sensors, provides centimeter guidance.

The HYDRO*pro* Construction software runs on Microsoft Windows operating systems, and features an easy to understand graphical interface.

The software supports multiple sensor inputs, such as attitude sensors and cable out devices, and works with Trimble's DGPS, RTK, and Total Stations to provide precise 3D positioning in real-time.

Enhanced guidance features provide guidance information between two moving vessels and between a vessel and a moving link, such as an anchor line.

The HYDRO*pro* NavEdit module integrates seamlessly with the HYDRO*pro* Construction software. With it, you can graphically filter and edit depth and tide data.

Options for advanced positioning and processing

The HYDRO*pro* Remote software is used on anchor handling tugs and dump barges. With it, you can communicate with mobile vessels via radio link.

The optional Trimble Terramodel® HDMS Windows processing software for volumes and 3D visualizations is also available. This market leading sofware offers rapid data processing for contouring and plotting of large projects.

Whether you are surveying a harbor, placing piles for a new wharf, positioning a barge, or tracking vessels, the flexible, integrated design of the HYDRO*pro* Construction software will meet the exacting requirements of your marine or waterway construction projects.

Key features and benefits

- For all phases of the marine based construction cycle
- Proven on large projects worldwide
- Supports GPS, Total Stations, and multiple sensors
- Data and configuration integrity for quality assurance
- Rapid response to unique requirements

◈ **Trimble**

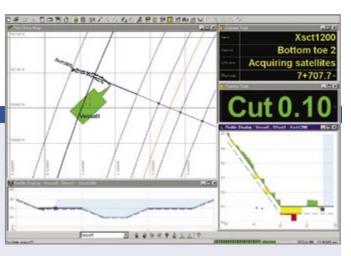# HYDRO*pro* Construction

Marine Construction Software

Applications
- Piling for bridges and wharfs
- Dredging of channels
- Rock dumping for breakwaters
- Oil rig and barge positioning
- Tracking and control of anchor tugs or dumping barges
- Cable and pipeline location and inspection

Features
- Operates on Windows 2000, NT, and XP operating systems
- Graphical vessel shape editor
- DXF and raster image background display files supported
- Built-in site calibration and adjustment
- Steer different vessel offsets to numerous targets
- Data Tree gives access to all real-time information
- All features in HYDRO*pro* Navigation plus:
  - User defined multiple display combinations (Display 'frames')
  - Operator and Supervisor modes
  - Guidance on spheroid for long routes
  - Flavor specialization simplifies use
  - Real-time depth profile and channel cross section display
  - Precise dredge depth head tracking
  - Tracking and commanding multiple vessels
  - Bullseye displays for precise positioning and orientation of structure
  - Guidance along anchor lines
  - Anchor up/down reports
  - Final positioning real-time statistics, scatter plots, and reports
  - Guidance for vertical and raked piles
  - Bubble display for inclination guidance
  - Map cursor location and measurement tools
  - Anchor target definition using map cursor
  - File transfer from rig or barge to rug over radio link

*HYDRO*pro* NavEdit software*
- Position, depth, heave, and tide editing by interactive graphics or batch processing
- Graphical displays show both the raw and composite data on same screen
- Sounding Selection to reduce processed data volume
- User-definable ASCII format and proprietary data files for postprocessing (import and export)

Precision dredging, or dumping, to complex designs

Technical Specifications
Minimum Configuration

Processor	Pentium II 300 MHz
RAM	128 MB
Hard drive	4 GB
Monitor	SVGA 1024 × 768
Data devices	CD-ROM drive
Operating system	Windows NT, 2000, or XP Professional

Options
Components such as radio telemetry can be ordered through Trimble.
- Fix Box for triggering and receiving events
- Dredge head depth sensor
- Training

Ordering Information
The HYDRO*pro* Construction software is available standard with quick reference guide, security key, and software manuals on CD.

HYDRO*pro* Construction	Part Number 44256-00
HYDRO*pro* Remote	Part Number 44258-00
Terramodel HDMS	Part Number 44260-00
Terramodel Channel Design	Part Number 45164-00
Terramodel Visualizer	Part Number 44261-00

For further information contact your local Trimble office or representative. You may also visit our website at http://www.trimble.com.

Specifications subject to change without notice.

YOUR LOCAL TRIMBLE OFFICE OR REPRESENTATIVE

Trimble.