INFO SHEET

# Trimble Marine Construction software for positioning

## Hydrographic surveying

### Accelerate your surveying and reporting

**Trimble® Marine Construction (TMC) software for positioning** provides contractors with the ability to perform their own pre-/post-construction single beam sonar surveys. Accelerate your surveying and reporting with simple data acquisition, editing, plotting and dredge volume calculations. Reduce rework, increase productivity and improve site safety with a better understanding of the underwater environment.

TMC software easily adapts to your project's needs, providing a reliable and stable solution for the challenges of large marine construction data sets. Achieve survey accuracy better than 4 inches (10 cm) vertically and integrate TMC software with Trimble Marine Construction systems for dredging and placement applications to accelerate every step of your project.

### Increase productivity and reduce rework

Don't waste time waiting for expensive surveys. Get the information you need — when you need it. Stay productive by confidently conducting your own hydrographic surveys and generate new models directly from the data file which can be exported to Trimble Business Center for sharing.

Quickly identify high and low spots, calculate progress volumes and send grid model updates to both the office and the dredge vessel.

### Complete suite for acquisition and data editing

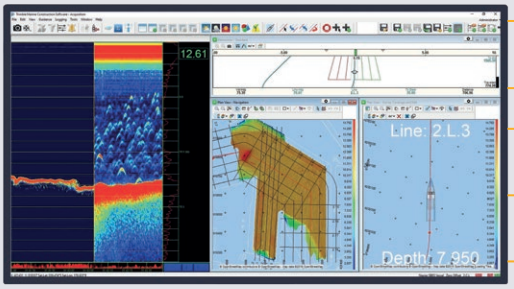
Effortlessly generate complex runline patterns before or during a survey for precise navigation and greater efficiency. Easily visualize data in the interactive user interface with top, profile and 3D views.

The Digital Terrain Model (DTM) displays corrected depths in color-coded cells while the real-time echogram display enables seabed/riverbed feature inspection and identification.

Real-time sound velocity filters create a clean surface that can be sent to the dredge or the office for analysis. Or edit raw depth data channels using time based or line based editors, or the echogram editor directly from the data file.

### Trimble CenterPoint RTX Marine

Boost your on-site productivity and obtain the precision you need for marine construction and survey applications with Trimble's real-time GNSS correction service. Trimble CenterPoint® RTX delivers centimeter-level accuracy via satellite and/or the internet.




- Complete software suite for data acquisition, editing, plotting and reporting
- 3D, plan and profile views
- Configure events and display screens for the surveyor and the helmsman
- Import vessel shape from CAD software for realistic visuals
- Create charts and plots using custom templates

Trimble

trimble.com/marine

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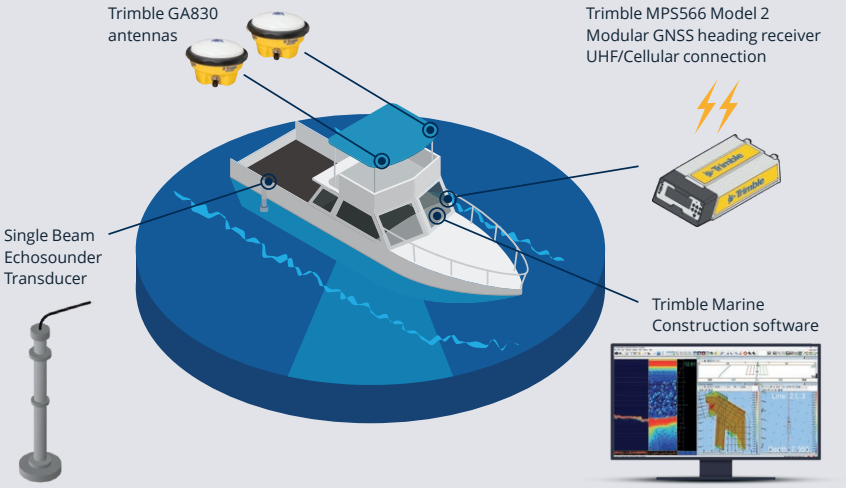
## Hydrographic surveying

## General

- Supports subscription electronic charts, open-source charts and Automatic Identification Systems (AIS) for improved safety and navigation in congested waterways.
- Simple background charting Electronic Chart Display and Information System (ECDIS).
- Innovative single beam interpolation in Digital Terrain Model (DTM) for better results.
- Compatible with a wide range of Trimble and third-party sensors including: single beam echo sounders, Trimble GNSS receivers, sensors for vessel roll, pitch, heave.




## Accessory interface options

- Positioning systems
- Singlebeam echosounders
- Compass or dual GNSS heading
- Motion sensor
- Tide gauges
- Eventing to echosounder
- Acquisition, logging of all sensors in a single file

## Data acquisition

- Show charts, DXF and AIS vessel data as plan view background
- Status views of equipment, logging and alarms
- Online correction for:
  - Vessel roll, pitch and heave
  - Offsets
  - RTK height and tide
- Helmsman display with runline guidance
- Echogram display

## Processing

- Position editor shows position with DXF, Geotiff, S57, C-map and gridmodel in background
- Line-based editor shows data relative to sailed line
- Tidal data editor
- All editors show the original position together with edited and removed data
- All editors have the following functions:
  - Delete/Undelete function
  - Move/Smooth function
  - Interpolate/Find spikes function
  - Undo/Redo function
- Tide can be applied, reapplied and removed without data replay
- Direct generation of 3D model from DTM
- Filter DTM data, view depths, standard deviations and hits per cell, interpolate functions

## Charting

- Generate charts using administrator-defined and user templates
- Multiple plan-views and multiple profiles
- Depth contours, text and images
- Fast chart generation and printing

## Volume computation

- Compute volumes and generate reports from:
  - DTM grid model
  - Rapid grid model volumes and reporting
  - Volumes direct from data files using wizard
- Design modes by either:
  - Profile design
  - DTM model
  - Data export into XYZ Microsoft® Excel® sheets

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