DATASHEET

WM-SURVEY II

Survey and design app

WM-Survey II™ is a standalone, free-to-download app for conducting basic field surveys for use in water management activities. Compatible with any Android™ phone or tablet (version 10.0 or higher), as well as the PTx Trimble GFX-750™, GFX-1060™, and GFX-1260™ displays, users can connect their own GNSS receiver to create topographic maps for use in a variety of applications.

Auto-Design Creation on Tablets and Phones

WM -Survey II becomes even more powerful by automating the creation of certain surface drainage structures. Typically reserved for our water management design software packages, these advanced features can generate designs, as well as the 3D surface control files and navigational guidance lines needed by earthmoving equipment to implement them.

Terrace & Waterway Solutions

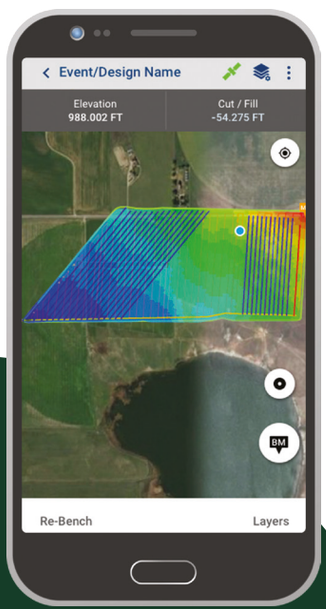
The Terrace & Waterway Design solution allows the user to easily and automatically create a basic terrace or waterway design in just five steps. The 3D control files and feature line guidance files are also auto-created, allowing land forming work to begin right away – no more waiting for designs to come back from the office. Farmers can more easily conduct their own maintenance, extending the life expectancy of terraces and waterways while boosting yields in terraced fields by up to 5%.

Rice Levee Designs

The Levee Design solution uses a four-step guided workflow to auto-create rice levees based on desired specifications and elevation across a field. Upon creation of the design, feature line guidance files are also exported and available for use in levee creation. Minimize yield loss from weather delayed planting by building levees right away. Eliminate the hours or days waiting for a designer to get back to you.

Key Benefits

- Automated terrace and waterway cross-section profile designs
- Automated rice levee designs
- Ability to begin in-field work minutes after completing field surveys
- Intuitive workflows guide users and help reduce error
- Save time with verification of surface and tile designs
- Save money by using the survey equipment you already own
- Accessible entry-level application for beginning water management work



SCAN HERE
TO DOWNLOAD
THE APP.

Functionality	Description	Compatibility	
		GFX-750, GFX-1060, GFX-1260	Android v10+ Device
Core App	Create and display a topographic survey of the layout of your field	√	√
	Import design file and verify a water management project	√	√
Terrace & Waterway Solution	Auto-create terrace cross-section profile design based on elevation (.txt and .xml file export included)		√
	Auto-create waterway cross-section profile design based on line placement (.txt and .xml file export included)		√
	Create 3D surface control files (.gps file export included)		√
	Create guidance layer in WM-Survey II app and/or guidance layer to display system (.shp file export included)		√
Rice Levee Solution	Auto create levee design based on elevation (.txt and .xml file export included)		√
	Create guidance layer in WM-Survey II app and/or guidance layer to display system (.shp file export included)		√

PTx Trimble

ptxtrimble.com

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Why Conduct a Survey?

A survey creates an elevation map of a field that provides a general lay of the land and allows measurement of different areas. It is the first step in any water management decision making and helps determine what solutions may be applied.

When paired with a sufficiently accurate GNSS receiver, WM-Survey II allows the easy recording of elevation points across a field to generate a topographic map. This topographic map, or survey, can be exported to other software programs and be used to create land forming and grading designs as well as surface and sub-surface drainage designs.

Topographic data can be used to identify:

- Water flow patterns
- Efficient routes for water removal or retention
- Optimal locations for terraces, waterways, gates, or pumps
- Ideal location and size of watersheds
- Strategic points for drainage installation

Project Verification

WM-Survey II makes verification at the end of a water management project fast and easy. Simply import the design file that was used and then walk or drive across the surface of the field to compare the designed elevation to the actual work that was performed. If any problem areas are identified, simply drop a pin to revisit at a later date.

Supported Hardware

Platform	Receiver	High Precision Surveys*	Low Precision Surveys
GFX-750, GFX-1060, or GFX-1260 display	NAV-900 Guidance Controller	√	
	NAV-500™ Guidance Controller		√
Mobile Android Device**	R780 Smart Antenna	√	
	R750 modular GNSS Receiver	√	
	SPS986 Smart Antenna	√	
	SPS985 Smart Antenna	√	
	AG-342 GNSS Receiver	√	
	AgGPS 542 GNSS Receiver	√	
	Catalyst™		√
	3rd-Party Receivers	Varies	Varies

* RTK correction is the preferred method for surveys to ensure a high-accuracy topographic map.
To get RTK correction, one of the following is required: 1) Local base station broadcasting 450 Mhz or 900 Mhz corrections; or 2) VRS/NTRIP corrections and an internet connection
** Android Version 12.0 or higher is recommended.





Contact your PTx Trimble Reseller today

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