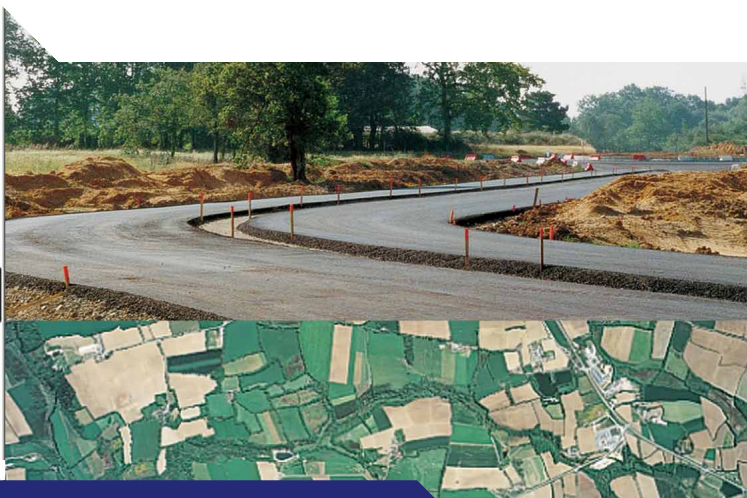


Offset Distance: 0.000 ft
 Offset Azimuth: 0°00'00"
 Vertical Offset: 0.000 ft

Pt: 14
 Desc:
 Azi Reference: North Point:

Read Laser Store Point Read/Store
 Laser Settings...

HRMS: 0.072
 VRMS: 0.128 FIXED



Fixed 3 ft

Pt 14 Desc Stake 13 HT: 2
 N:1953608.8 E:6144492.9 Z:-13.3497
 HRMS:0.072 VRMS:0.138
Cut 0.033 Dsc:
North 0.006 West 0.010

FAST Survey

GRAPHICAL USER INTERFACE FOR Z-MAX SURVEY SYSTEM

FIELD SOFTWARE SOLUTION FOR TOPOGRAPHY AND CONSTRUCTION

FAST Survey™ software from Thales Navigation is a graphical field solution for topography and construction designed to optimize the functionality and performance of the Z-Max® GPS system. FAST Survey provides innovative, flexible support for a wide range of instruments and data formats.

GRAPHIC DISPLAYS

FAST Survey is a graphical, easy-to-use field solution. A scaleable map-view screen displays points and lines as they are surveyed, offering large-print displays for rapid, reliable data collection. Menu access through an intuitive tab-based interface means that mission-critical menus are visible from all screens and no time is spent scrolling through menus in the field.

HARNESS THE POWER OF Z-MAX

Thales Navigation FAST Survey is specifically designed to optimize the Z-Max GPS system's advanced features. Innovative features for UHF radio control and GSM modem operation reduce time troubleshooting RTK data links and keeps the focus on productive surveying. Full control of Z-Max Bluetooth® wireless ensures a robust, cable-free RTK rover, reducing the cost and trouble of being wired to the equipment.

The ability to collect single coordinate shots, full RTK vectors, raw GPS data or all data types concurrently provides flexible solutions for changing needs.

ADVANCED FEATURES AND COMPATIBILITY

Integrated control of GPS systems, conventional total stations and robotic total stations is a snap, with seamless transitions within the same job file. The flexible, modular structure of FAST Survey allows surveyors to meet the changing needs of today's job and tomorrow's



opportunity. Rich attributing, full editing in the field and export to industry-standard data formats provides true field-to-finish capability, saving time and effort. Advanced features like offset staking, slope staking, cut-sheet export and road templates deliver productivity for road construction projects, putting even large projects within reach. Support for industry standard file formats like DXF, SHP, LandXML and RW5 opens channels of compatibility with client software. Take control and work with the best tool for the job – FAST Survey.

TECHNICAL SPECIFICATIONS

Features	Benefits
The scaleable map view screen displays points and lines as they are surveyed, offering large-print controls for data collection.	Intuitive interfaces and easy to read graphics enables rapid, reliable data collection.
The user interface features a tab-based menu structure visible from anywhere within the program.	User can quickly access important functionality with a single action from frequently used areas of the program.
The program features a large array of pre-defined coordinate systems from around the globe, the latest geoids and robust custom coordinate system support.	Convenient set up of pre-defined and local coordinate systems for surveying professionals worldwide.
In-field Geodetic Calculation tool-kit includes advanced features like alignments, poly-line conversions, centerline manipulation and automatic offsetting.	The ability to manipulate the design file on-the-fly dramatically reduces the need to carry and manually edit paper plans.
Innovative features for UHF radio control and cellular modem operation.	Informative displays and effective control of communication devices reduces trouble-shooting and keeps the focus on productive surveying.
Control of Z-Max Bluetooth wireless technology	Ensures a robust, cable-free RTK rover, eliminating the cost and trouble of cables.
Smart power management features actively monitor Z-Max system batteries	Provide accurate, reliable power information on demand, increasing reliability in the field.
Supports collection of coordinate shots, full RTK vectors, raw GPS data or all data types concurrently	Provides flexible solutions for feature collection, data logging and quality assurance.
Integrated control of GPS systems, conventional total stations and robotic total stations enables seamless transitions between GPS and conventional measurement systems.	Provides more options for different environmental conditions, different field crews and different survey types.
Rich attributing, full editing in the field and export to industry-standard formats	Provides true field-to-finish capability, saving time and effort.
Advanced features including offset staking, slope staking, cut-sheet export and road templates	Innovative, modular road construction features deliver the ability to easily scale up for larger road construction jobs.

Map View

- Single screen menu structure
- Full range of zoom, pan and point plotting options
- Points and linework plotted as they are collected by GPS or optical instruments
- Point viewing options and filters
- One button toggle between Map View and Large Text display
- Command Line available for CAD functions

Geodetic Geometry

- Intersection / resection
- Azimuth and Distance
- Horizontal and vertical offsetting
- Poly-line creation and editing
- Curve calculator
- Area calculator

Supported GPS Instruments

- Thales Navigation Z-Max
- Ashtech "Z" Family
- Topcon
- Leica
- Trimble
- Point Inc./SOKKIA

Languages Supported

- English
- Portuguese
- French
- Spanish
- German

Thales Navigation

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Z-Max GPS Support

- Thales Navigation UHF Programming
- Pacific Crest UHF Programming
- GSM modem dialing
- Bluetooth wireless control

Coordinate System Support

Predefined Grid Systems

- Geodetic
- UTM
- US State Plane
- Germany
- UK
- France
- Netherlands

Predefined Datums

- WGS84
- NAD27
- NAD83

Projections

- Transverse Mercator
- Oblique Mercator

Geoids

- Geoid 99
- EGM 96
- Geoid 03

Local Grid System

- Single point localization
- Rigid body
- Plane similarity

Survey Utilities

- Calculator
- Raw (RW5) File Viewing
- Configurable Enter Key

Data File Formats

- AutoCAD DXF import and export
- MicroStation DXF import and export
- SHP format import and export
- RW5 data for both GPS and optical
- LandXML import and export
- Centerlines and profiles in TDS/SDR/LDD formats

Supported Hardware

- Juniper Allegro CE/CX
- Symbol PDT 8100

Optional Features

Optical Surveying Instruments

- Topcon (conventional & robotic)
- Leica (conventional & robotic)
- Nikon
- Pentax
- Sokkia
- Trimble

Road Construction

- Input/Edit Template
- Draw Template
- Slope Staking
- Cross Section Survey
- Road Utilities