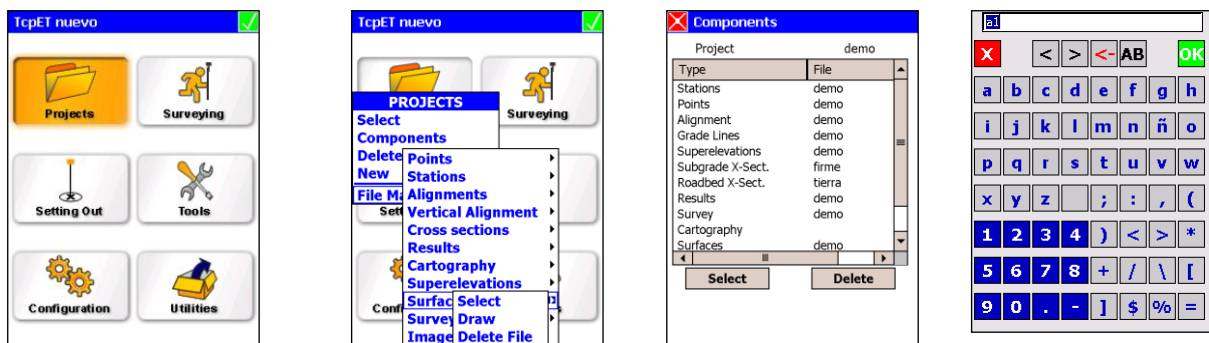


# TcpET Basic

## Surveying and Setting Out using Total Station

### Introduction

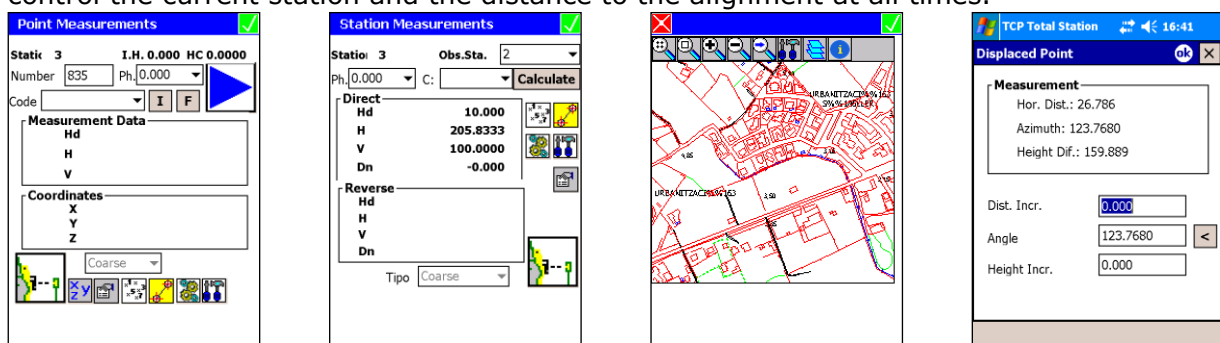
This application, installed in a pocket PC, allows the user to survey and stake out topographical data using a wide range of total stations, connected through a standard cable or through wireless Bluetooth technology. In motorised stations, the software will automatically direct the device to the desired location. The program provides numerous options and may be used for traditional mapping or surveying, and for projects involving linear works.



### Surveying

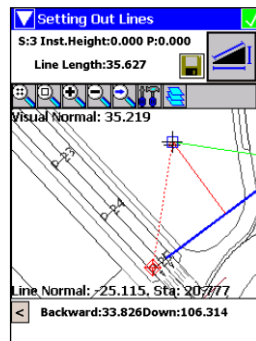
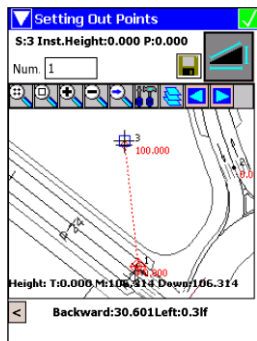
Before starting the survey, the program controls the direction of the system by comparing the theoretical data with the measured data. Points or stations may then be taken by recording the data as coordinates or as observations, indicating the height of the prism and code for each one. These files can subsequently be calculated using the TCP Digital Terrain Model or other commercial programs.

The application likewise provides the ability to measure cross sections, whilst allowing the user to control the current station and the distance to the alignment at all times.



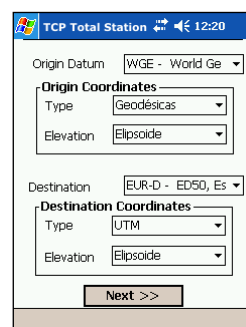
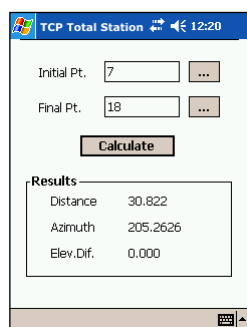
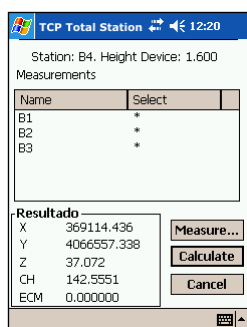
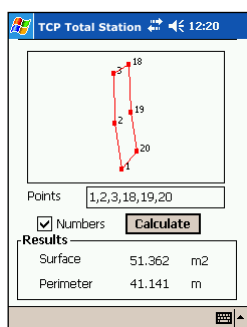
### Setting Out

The software provides numerous options for stake out points and geometric constructions with lines. The prompts provide the information regarding the current position and the objective position at all times.



## Tools

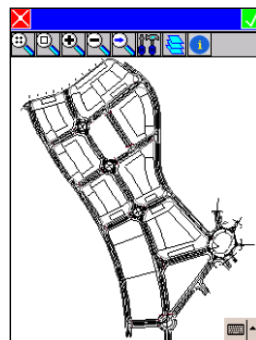
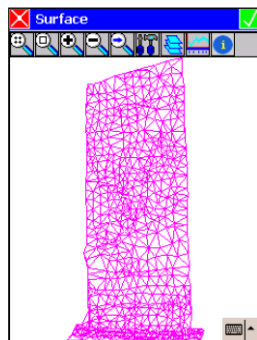
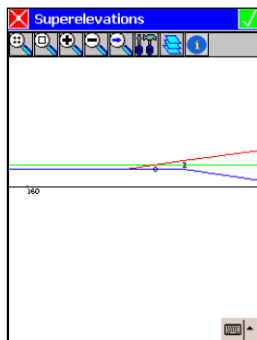
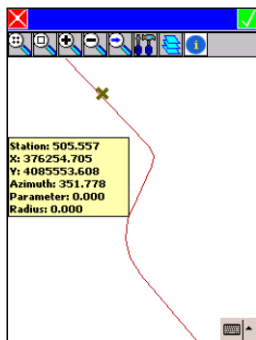
Apart from the options mentioned above, the software provides the ability to calculate distances and areas between points, to calculate the coordinates of a point over the plan and elevation alignment, to analyse a point using a digital model, to find intersections between straight lines and/or circles, to find the current position through an inverse intersection, to use the geodesic calculator, etc.



## File Management

The application works with ASCII files in a format that is compatible with TCP – Digital Terrain Model, although it also contains a program for PCs that allow the user to convert the files containing plan and elevation alignment and transversal profiles to the most common formats used in the market. All of the information exchanged between the PC and the Pocket PC is transmitted in a very simple manner using Microsoft ActiveSync.

Each project may contain files with stations, points, longitudinal profiles, cross sections, plan and elevation alignments, superelevations, surfaces and DFX cartography, allowing the user to edit and add new information and draw this information on the screen.



## CAD

The **TcpCAD** module may also be purchased along with the application, in order to gather data and map over a digital cartography in a DFX or AutoCAD DWG format.

This module provides options for viewing the drawings with zoom and in real time framing, layer control, colours and line type, drawing lines, polylines, arcs, circles and texts and the most common editing commands.

This component allows the user to apply the browse options over cartography and data capture point-by-point or continuously, by drawing specific blocks or polylines in real time depending on the assigned codes. It is also possible to graphically design the points that will be mapped or used for defining the local adjustments.

## System Requirements

### Supported Devices

<b>Platform</b>	<b>Brand</b>	<b>Model</b>	<b>Processor</b>	<b>Operating System</b>
Handheld PC	PSION	NetPad	ARM	Windows CE .NET
Handheld PC	PSION	WorkAboutPro	ARM	Windows CE .NET
Handheld PC	Topcon	FC-1000	SH4	Windows CE 3.0
Handheld PC	Topcon	FC-2000	ARM	Windows CE .NET
Handheld PC	Topcon	FC-100	ARM	Windows CE .NET
Handheld PC	Topcon	FC-200	ARM	Windows CE .NET
Handheld PC	Topcon	Ranger	ARM	Windows CE 3.0
Handheld PC	Trimble	ACU	ARM	Windows CE .NET
Handheld PC	Trimble	TsCE	ARM	Windows CE 3.0
Handheld PC	Trimble	Recon	ARM	Windows CE .NET
Pocket PC	Compaq	iPAQ 3630	ARM	Windows CE 3.0
Pocket PC	Compaq	iPAQ 3950	ARM	Pocket PC 2002
Pocket PC	Compaq	iPAQ 3970	ARM	Pocket PC 2002
Pocket PC	HP	iPAQ 5450	ARM	Pocket PC 2002
Pocket PC	HP	iPAQ 5500	ARM	Pocket PC 2003
Pocket PC	HP	iPAQ 2200	ARM	Pocket PC 2003
Pocket PC	HP	iPAQ rx3700	ARM	Pocket PC 2003
Pocket PC	HP	iPAQ rz1310	ARM	Pocket PC 2003
Pocket PC	HP	iPAQ rx1950	ARM	Pocket PC 2003
Pocket PC	HP	iPAQ hx2190	ARM	Pocket PC 2003
Pocket PC	HP	iPAQ hx2490	ARM	Pocket PC 2003
Pocket PC	HP	iPAQ hx2790	ARM	Pocket PC 2003
Pocket PC	Acer	N35	ARM	Pocket PC 2003
Pocket PC	Unitech	PA-500	ARM	Wmobile 5.0

## Supported Total Stations

Brand	Model
Nikon	DTM-420
Nikon	NPL -350
Sokkia	SET-4
Sokkia	SET-3B
Sokkia	3100
Sokkia	3110
Sokkia	3120
Sokkia	3130-R
Topcon	CTS-1,CTS-2
Topcon	CTS-1,CTS-2
Topcon	GTS-4B Series
Topcon	GTS-220 Series
Topcon	GTS-600 Series
Topcon	GTS-720 Series
Topcon	GPT-2000 Series
Topcon	GPT-3000 Series
Topcon	GPT-7000 Series
Topcon	GPT-7000i Series
Topcon	GPT-8000 Series
Topcon	GPT-9000M Series
Topcon	GPT-9000A Series
Topcon	IS Series
Topcon	QS Series
Leica	T - 1000
Leica	TC - 1000
Leica	TC - 1100
Leica	TCR - 303
Leica	TCR - 400
Leica	TPS - 400
Leica	TCR - 705
Leica	TCR - 800
Leica	FlexLine
Leica	TC30 / TM30
Trimble	5500
Trimble	5600
Trimble	3300
Focus	Focus 10
Pentax	PTS - II
Pentax	PCS - 315
Pentax	W - 825 XN

Note: Not all of the features of the application are available for all the devices and total stations.

For an updated account of the certified receiver models and Pocket PCs, please check the website. If you wish to evaluate the possibility of adapting the application to a specific receiver or mobile device, please contact our Technical Service.

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