

# FC-2000 AND FC-200 FIELD CONTROLLERS



Topcon's new field controller has all the same great features as the FC-1000 but with a color screen. The FC 2000, represents the most powerful controller combinations in the industry. Finally, a Single Source Solution to all to of your field controller needs.

## Features Include

- Ultra-bright, TFT sunlight-active, color touch screen display
- Removable compact flash card
- 2 comm ports (9-pin serial, 6-pin instrument)
- USB port
- Removable Li-Ion batteries (off the shelf mini-cam batteries)
- Powerful 400 Hz Intel Xscale processor standard



**New!**



## EXPLORER 600+

The fastest most powerful,  
ruggedized mobile hand  
held computer available  
today.

### Features Includes:

- High Speed Processor  
Fast 624 Mhz Xscale processor!
- More Memory  
128Mb SDRAM  
512Mb System Flash
- Powerful Software  
Starting at only \$2995 with  
Carlson SurvCE installed!
- More Durable  
Weather resistant shell rated to withstand  
wind-driven rain  
(IP65 ingress protection)
- Better Control  
New keyboard designed for surveyors!  
Handstrap and stylus.
- Bright Display  
QVGA-TFT color, sunlight readable touch screen
- Powerful Connectivity  
Comes standard with WiFi and Bluetooth,  
USB port, Serial port, CF slot

**Call  
For a Quote  
Today!**

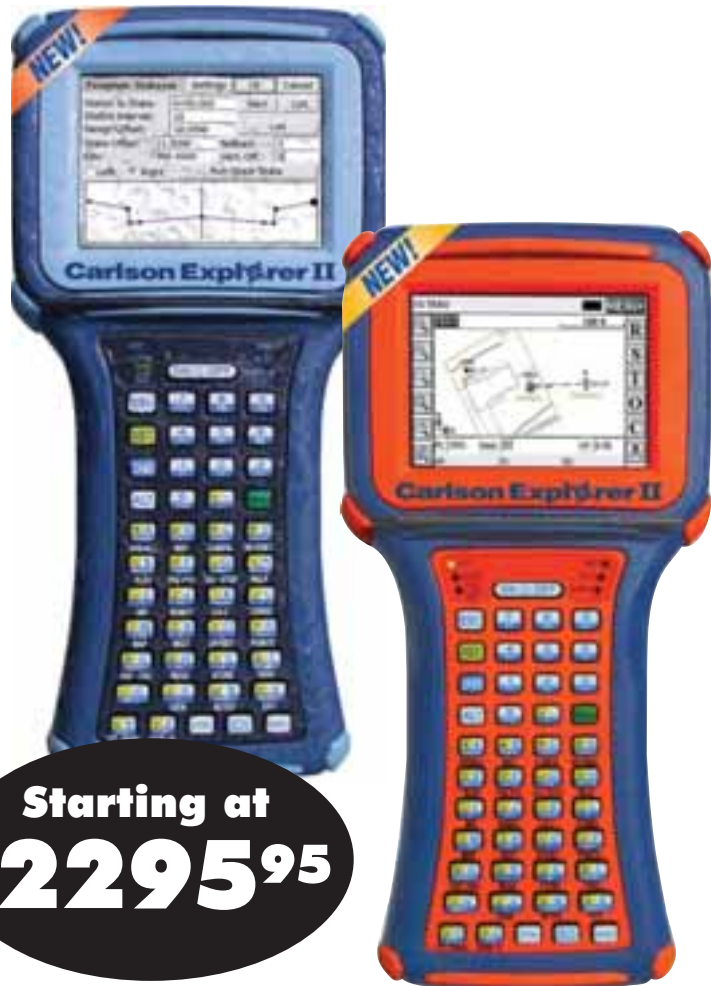


## EXPLORER II

The new Carlson Explorer II combines state-of-the-art environmentally rated hardware, powered with Carlson SurvCE, for the most powerful and easy to use data collection package starting

### Features Includes:

- More Durable  
Weather resistant ruggedized shell environmentally rated to withstand wind-driven rain.
- More Memory  
400 Mhz Xscale processor  
256 Mb memory
- Bright Display  
Color TFT, bright touch screen
- Better Control  
New and improved non-glare keyboard optimized for surveyors! And new convenient handstrap and stylus



Starting at  
**\$2295<sup>95</sup>**



## EXPLORER I

The Carlson Explorer combines state-of-the-art hardware, powered with Carlson SurvCE, for a powerful and easy to use data collection package starting at only

### Features Includes:

- More Speed  
400 Mhz Xscale processor  
128 Mb memory
- Bright Display  
Color TFT, bright touch screen
- More Control  
New and improved non-glare keyboard optimized for surveyors!



Starting at  
**\$1795<sup>95</sup>**



**Call  
For a Quote  
Today!**

## ALLEGRO

The Allegro Field PC® is the ideal all-weather mobile computing tool for a variety of surveying applications. It offers a 400 MHz Intel® XScale™ processor for superior performance, ergonomic design and efficient keyboard layout, field-friendly design, multiple connection options and fast file transfer and synchronization. Convenient display and touch screen provide excellent visibility in the field.

### Features:

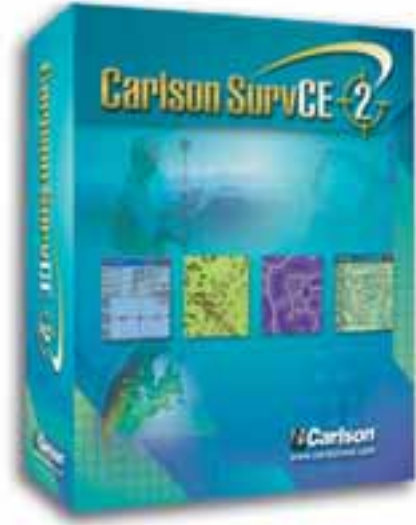
- Fast - Intel® XScale®, 400 MHz
- Intuitive - Windows® CE .NET 4.2
- Color- Active Matrix TFT Color Display
- Wireless - Integrated Bluetooth
- Rugged - Withstands Extreme Temperatures
- Impervious - Waterproof, Dustproof, IP67
- Plentiful Memory - 64 M or 128 M
- Secure Data Storage - 128 M, 512 M, 1 G
- Communicates - 2 Serial Ports, USB, IRDA
- Efficient - NiMH Battery Expandable GPS, Bar Code, WLAN, RF ID
- Field-Friendly - Ergonomic Design
- Handy - 62 Large Keys
- Real Time - Internal Battery-Backed Clock
- Versatile - Accessible PC Card
- Hear It - Multi-Media Sound





## CARLSON SURV CE-2

The innovative Windows CE data collection software for land surveying professionals. Carlson SurvCE is a complete data collection system for Real Time (RTK) GPS and Total Stations with in-field coordinate geometry. The current version of Carlson SurvCE is 1.63. It supports most major brands of total stations and GPS. Read the following two detailed reviews by the American Surveyor magazine



### Version 1.6X Features Includes:

- NEW! Windows Mobile 2003
- NEW! Instruments
- NEW! Backsight
- NEW! Added the option to extend lines.
- NEW! List: Added the 2D and 3D perimeter data to the listed data of a 3D polyline.
- NEW! Offset Segment
- NEW! Slope Report (Surface Area)
- NEW! Feature Code List
- NEW! Import ASCII:
- NEW! JobSettings › Options:
- NEW! Job Settings › Units › Feet and Inches:
- NEW! File › Configure Reading › Continuous Angles for TS:
- NEW! Localization › Helmert:
- NEW! Localization: Added a new file format (\*.LOC)
- NEW! Point Projection
- NEW! Station Store
- NEW! Road Utilities › Input/Edit Template Series.
- NEW! Road Utilities › Centerline Conversion:
- NEW! Road Utilities › Section File Conversion:
- NEW! Section File Interpolation by Profile
- NEW! Slope Staking:
- NEW! Template Stakeout:



## TDS RANGERS

### Features Include

- Featuring the Windows Mobile 5.0 operating system
- Field-ready ruggedness
- 30-hour battery
- Easy to use keypad and touchscreen.
- Option of integrated Bluetooth and 802.11 wireless
- CompactFlash (CF) slots allow you to add GPS, GPRS, digital cameras, bar-code scanners and other CF devices.
- Secure Digital (SD) slot lets you increase data storage

### RANGER 300X (64/256MB)

Item	Description	MSLP
	w/ Survey Standard	2,749.00
	w/ Survey Pro	3,149.00
	w/ Survey Pro Robotic	3,949.00
	w/ Survey Pro GPS	3,949.00
	w/ Survey Pro Max (GPS/Robo)	4,449.00

To add Bluetooth to 300X above, add \$150.00 per collector

### RANGER 500X (w/ BT, 128/512 MB)

	w/ Survey Standard	3,399.00
	w/ Survey Pro	3,799.00
	w/ Survey Pro Robotic	4,599.00
	w/ Survey Pro GPS	4,599.00
	w/ Survey Pro Max (GPS/Robo)	5,099.99

To add 802.11b Wireless to 500X above, add \$150.00 per collector

### RANGER NX (64/128MB)

	w/ Survey Standard	1,999.00
	(64/128Mb) w/ Survey Pro	2,399.00
	w/ Survey Pro Robotic	3,199.00
	w/ Survey Pro GPS	3,199.00
	w/ Survey Pro Max (GPS/Robo)	3,699.00

## TDS RANGER NX

The Ranger NX gives you another choice in data collectors. By removing the option of expansion slots and providing 128 MB of on-board Flash storage, the Ranger NX becomes an extremely affordable rugged device.



**Call for  
a custom  
quote!**

### Ranger Accessories

Item	Description	MSLP
ALCD	PEELOFF Screen Protectors (10-pack)	10.00
AUSBCBL	USB Data Cable	15.00
CNULLCAT	Serial (9-pin to 9-pin) Cable	15.00
Z2001	AC Charger	59.00
Z2002	Stylus Pens (2-pack)	6.00
Z2003	12V Vehicle Charger	199.00
Z2004	Nylon Carry Case (small cap)	30.00
Z2005	Stylus Lanyard	8.00
Z2006	Tripod Bracket	75.00
Z2007	Range Pole Bracket	155.00
Z2008	Nylon Carry Case (mid/ext cap)	30.00

"FOR BUNDLES OF POPULAR RANGER ACCESSORIES, CALL US!!!"



## TDS SOFTWARE FUNCTION CHART

- Survey Standard
- ▲ Survey Pro
- ◆ Survey Pro Robotics
- Survey Pro GPS
- ★ Survey Pro Max

### TITLE BAR/TASK BAR

Toggle collection mode (total station/GPS)	●	▲	◆	■	★
Battery status indicator	●	▲	◆	■	★
Map access button	●	▲	◆	■	★

### FILE

Import/export coordinates	●	▲	◆	■	★
JOB, .CRS, .TXT, .GPS files	●	▲	◆	■	★
Transfer - multiple modes	●	▲	◆	■	★

### JOB

Edit points/polylines	●	▲	◆	■	★
Edit alignments	●	▲	◆	■	★
Auto linework (real time)	●	▲	◆	■	★
View raw data	●	▲	◆	■	★
View DTM	●	▲	◆	■	★
Manage layers	●	▲	◆	■	★
Calculator	●	▲	◆	■	★

### SURVEY (CONVENTIONAL MODE)

Backsight setup	●	▲	◆	■	★
Traverse/sideshot	●	▲	◆	■	★
Repetition shots	●	▲	◆	■	★
Multiple sideshots	●	▲	◆	■	★
Distance/angle offset	●	▲	◆	■	★
Corner & 2 lines	●	▲	◆	■	★
Corner & angle	●	▲	◆	■	★
Corner & offset	●	▲	◆	■	★
Corner & plane	●	▲	◆	■	★
Shoot from 2 ends	●	▲	◆	■	★
Resection	●	▲	◆	■	★
Remote elevation	●	▲	◆	■	★
Bluetooth support (Recon)	●	▲	◆	■	★
Solar observation	●	▲	◆	■	★
Remote control	●	▲	◆	■	★

### STAKEOUT

Cut/fill to design grade	●	▲	◆	■	★
Generate cut sheet data	●	▲	◆	■	★
Turn gun to stake with 2-D and 3-D modes	●	▲	◆	■	★
Remote stake from rod	●	▲	◆	■	★

### STAKEOUT, cont.

Stake points/list of points	●	▲	◆	■	★
Stake to line	●	▲	◆	■	★
Offset staking	●	▲	◆	■	★
Slope staking	●	▲	◆	■	★
Stake to line and offset	●	▲	◆	■	★
Stake to curve and offset	●	▲	◆	■	★
Stake to spiral and offset	●	▲	◆	■	★
Stake DTM	●	▲	◆	■	★
Define a location	●	▲	◆	■	★
Where is next point	●	▲	◆	■	★

### INVERSE

Multiple types	●	▲	◆	■	★
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### COGO

Point in direction	●	▲	◆	■	★
Intersection	●	▲	◆	■	★
Offset line/points	●	▲	◆	■	★
Corner angle	●	▲	◆	■	★
Compute area	●	▲	◆	■	★
Triangle solutions	●	▲	◆	■	★
Map check	●	▲	◆	■	★
Predetermined area	●	▲	◆	■	★
HD/VD to/from SD/ZA	●	▲	◆	■	★

### CURVE

Curve solution	●	▲	◆	■	★
PI and tangents	●	▲	◆	■	★
3-point curve	●	▲	◆	■	★
Radius point	●	▲	◆	■	★
Tangent to circles	●	▲	◆	■	★
Curve layout	●	▲	◆	■	★
Traverse on a curve	●	▲	◆	■	★
Parabolic curve/layout	●	▲	◆	■	★
Straight grade	●	▲	◆	■	★
Spiral/spiral layout	●	▲	◆	■	★
Traverse on a spiral	●	▲	◆	■	★

### ROADS

Create/edit templates (cross-sections)	▲	◆	■	★
Create/edit alignments	▲	◆	■	★
Save alignment to file	▲	◆	■	★
Add super elevations to road	▲	◆	■	★
Add widenings to road	▲	◆	■	★
Road stakeout	▲	◆	■	★

### ADJUST

Scale/translate/rotate	●	▲	◆	■	★
Traverse adjust	●	▲	◆	■	★

### SETTINGS (CONVENTIONAL MODE)

Instrument setup & communications	●	▲	◆	■	★
Units	●	▲	◆	■	★
Feet/survey feet/meters	●	▲	◆	■	★
Degrees/grads	●	▲	◆	■	★
Azimuth/bearing	●	▲	◆	■	★
North/south azimuth	●	▲	◆	■	★
Various unit format files	●	▲	◆	■	★
Control/description files	●	▲	◆	■	★
Feature code files	●	▲	◆	■	★
Surveying	●	▲	◆	■	★
Prompt for description	●	▲	◆	■	★
Prompt for height of rod	●	▲	◆	■	★
Prompt for layer	●	▲	◆	■	★
Prompt for attributes	●	▲	◆	■	★
Scale factor	●	▲	◆	■	★
Stakeout	●	▲	◆	■	★
Prompt for layer	●	▲	◆	■	★
Prompt for attributes	●	▲	◆	■	★
Repetition shot tolerances	●	▲	◆	■	★
Auto time-stamp interval	●	▲	◆	■	★
Alphanumeric point names	●	▲	◆	■	★

### SURVEY (GPS MODE)

Bluetooth support (Recon)	■	★
GPS status	■	★
Base/rover setup	■	★
Control points	■	★
Collect point, features, offset	■	★
Projection setup/stats	■	★

### SETTINGS (GPS MODE)

Store GPS raw data	■	★
Post process	■	★
Recording interval	■	★
Data collect with map projection & geoid files	■	★
Data collect with local transformation	■	★
Real-time coordinate generation	■	★
Adjust coordinates to latest localization	■	★
All stakeout functions with GPS receiver	■	★

Please note: This chart is an abbreviated general guide to software functions. All specifications are subject to change without notice.

### Survey Standard

Survey Standard™ is a complete data collection and field computation package for surveyors and other field professionals. It contains a complete COGO suite as well as traverse, sideshot and staking routines that work with all major brands of total stations.

### Survey Pro

Survey Pro shares all Survey Standard functions and adds advanced road layout routines, advanced staking routines, attribute collection, DTM routines and much more.

### Survey Pro GPS

Survey Pro GPS™ shares nearly all the Survey Pro functions, and it provides the capability to collect data from RTK GPS receivers at centimeter-level accuracy. TDS GPS software is easy to use, reduces training and simplifies setups. It

provides meaningful error messages if anything goes wrong. Survey Pro GPS can use a simple local area transformation that computes local coordinates based on your control points in real time, or you can collect data using map projection and geoid files. All staking screens work with the GPS receiver.

### Survey Pro Robotics

Survey Pro Robotics™ shares all basic Survey Pro functions, and it works with all major brands of robotic total stations. Survey Pro Robotics also adds graphical staking screens.

### Survey Pro Max

Survey Pro Max™ is the ultimate field software. It integrates the functions of Survey Pro Robotics and Survey Pro GPS and enables you to use the same job files with both GPS receivers and total stations.

## TDS RECON/RECON NX

TDS now offers a new version of the popular Recon® data collector. The TDS Recon NX is designed as a cost-competitive product yet has all the basic performances of the standard TDS Recon.



- Affordability
- Maximum performance
- Ultra rugged
- Versatility
- Long battery life

### RECON 200X (64/128MB)

Item	Description	MSLP
	w/ Survey Standard	1,699.00
	w/ Survey Pro	2,099.00
	w/ Survey Pro Robotic	2,899.00
	w/ Survey Pro GPS	2,899.00
	w/ Survey Pro Max (GPS/Robo)	3,399.00

To add Bluetooth to 200X above, add \$150.00 per collector

### RECON 400X (w/ BT, 128/512 MB)

	(w/ BT)w/ Survey Standard	2,149.00
	w/ Survey Pro	2,549.00
	w/ Survey Pro Robotic	3,349.00
	w/ Survey Pro GPS	3,349.00
	w/ Survey Pro Max (GPS/Robo)	3,849.00

To add 802.11b Wireless to 400X above, add \$150.00 per collector

### RECON 200NX (64/64MB)

	w/ Survey Standard	1,399.00
	w/ Survey Pro	1,799.00
	w/ Survey Pro Robotic	2,599.00
	w/ Survey Pro GPS	2,599.00
	w/ Survey Pro Max (GPS/Robo)	3,099.00

For the Recon 400NX as above, add \$300.00 per collector

## TDS SOFTWARE

Select the features and performance needed at a affordable price. Choose from several versions of Survey Pro software and rugged Ranger data collectors. You can activate additional software power with a phone call to TDS Sales to purchase and register additional modules.

- Survey Standard
- Survey Pro
- Survey Pro Robotics
- Survey Pro GPS
- Survey Pro Max



### Recon and Recon NX Accessories

Item	Description	MSLP
ACARRYCASE	Vinyl Carry Case w/ strap	40.00
ASTDCASE	Nylon Carry Case	25.00
ABRACKET	Tripod Bracket	50.00
APOLEBRK	Pole Bracket	155.00
AF1057-05	Tactical Screen Protector	19.95
AHANDSTRAP	Hand Strap	12.00
ALCDPROTECT	Screen Protectors (10-pack)	10.00
ANECKSTRAP	Neck Strap	8.00
ASTYLUS	Stylus Pack (2-pack)	6.00
APOWERBOOT	PowerBoot Module	95.00
AN1POWERSUP	North American AC Charger	20.00
AAVCHRG12VCBL	Vehicle Charging Cable	35.00
AUSBCBL	USB Cable	15.00
CNULLCAT	Serial (9-pin to 9-pin) Cable	15.00

## TDS LAYOUT PRO SOFTWARE

### A blueprint for successful layout

TDS Layout Pro™ software and the TDS Recon® data collector together offer the convenience of carrying, managing, editing, and laying out your job site blueprint while you're on the go. And, this is all possible regardless of the method or instrumentation used. The power of a familiar user interface, specialized software, and built-in Construction Master® Pro Calculator from Calculated Industries, Inc. make Layout Pro a must-have tool that will revolutionize the way you work.

By using Layout Pro, you can organize and standardize all layout activity for your equipment from a transit and tape to a total station. You'll see the savings in shorter training times, as well as more flexibility and independence-if one instrument is unavailable, you can quickly and easily swap out for another.



**Free training  
at our site!**

Item	Description	MSLP
SX2APXE	Total Station Version	2,095.00
SC2APXX	Manual Mode	1,395.00
REC-Z5007	Software Only	800.00
REC-Z5002	Upgrade (Manual to TS)	900.00

## TDS INSTRUMENT CABLES

Item	Description	MSLP
SCGEOD600ST	9-pin Geodimeter dual-port	70.00
SCGEODY	9-pin to 9-pin/9-pin "Y" cable	70.00
SCGTSSOKTOP	9-pin to Topcon/Leitz/Sokkia	70.00
SCNTG	9-pin to Nikon	70.00
SCPENT	9-pin to Pentax	70.00
SCWILD	9-pin to Leica/Wild	70.00
SCZEISS	9-pin to Zeiss	70.00
A-A26TO9PIN	26-pin to 9-pin serial adapter	10.00
A-CNULLCAT	9-pin to 9-pin PC download cable	15.00
9TO25	9-pin to 25-pin adapter	10.00

