

CONSTRUCTION TOTAL STATION



High end Optical system built for construction

- REFLECTORLESS NON PRISM EDM
- EXPANDED NUMERIC KEYBOARD
- EXTREMELY LONG BATTERY LIFE
- INTEGRATED LASER POINTER
- LAYOUT ALIGNMENT GUIDE LIGHTS
- COMPACT, RUGGED DESIGN
- EASY TO RUN ONBOARD SOFTWARE
- RS232 PORT FOR DOWNLOAD AND OFF BOARD FIELD CONTROLLERS



It's time.

The CTS-3000 is the layout and measuring tool designed and built specifically for construction. It's expanded keyboard and on-board software allows construction professionals to check grade, topo, set points and perform any number of other layout tasks previously requiring a surveyor.

Built to work the way you do, the CTS-3000 comes standard with an RS232 port, perfect for use with Topcon's FC series field controllers, or with most any third party field collection devices. And the CTS puts those inaccessible points within reach. Topcon's advanced reflectorless technology allows for prismless surface measurements up to 750ft. (250 meters) away. As with all Topcon instruments, the CTS is built to exacting standards, it's water and dust proof, and will provide years of productivity.

If you or your crew has ever waited for stakes to be set or replaced, or wished you could quickly determine how much material you've moved in a day, then Topcon's CTS-3000 is for you. Contact your Topcon Positioning Systems dealer today for a demonstration.



Reflectorless Non Prism EDM
Reflectorless operation to a range of 750ft (250 meters). Measure non-reflective points on your jobsite with ease and accuracy.



Integrated Laser pointer
Illuminate where your stake out point should be located. Perfect for interior building layout tasks.



Expanded Numeric Keyboard
A full alpha/numeric on-board keyboard makes for faster data input and ease of use.



Layout Alignment Guide Lights
Bright, focused LED guide lights assists in getting your rod man on line quickly.

Offices Worldwide

TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku • Tokyo 174-8580, Japan
Phone: 3-3558-2520 • Fax: 3-3960-4214 • www.topcon.co.jp

Topcon Europe Positioning B.V.

Essebaan 11, 2908 LJ Capelle a/d IJssel • THE NETHERLANDS
Phone: 010-4585077 • Fax: 010-4585045 • www.topconeurope.com

Topcon Corporation Beijing Office

Block A No.9, Kangding Street, Beijing Economic
Technological Development Area, Beijing 100176 • CHINA
Tel: +86-10-6780-2799 • Fax: +86-10-6780-2790



Topcon Positioning Systems, Inc.

7400 National Drive
Livermore, CA 94550
www.topconpositioning.com

Specifications subject to change without notice

©2006 Topcon Corporation All rights reserved.

P/N: 7010-0784 Rev. A Printed in U.S.A. 10/06

CTS-3000 Specifications

Length	166 millimeters
Objective Lens Diameter	50mm(EDM:50mm)
Magnification	29.5X
Image	Erect
Field of View	1°30'
Resolve Power	3"
Min. Focus Distance	1.3 meters

MEASUREMENT RANGE

1 Prism	N/A, 3,000 meters
Mini Prism	6.6 - 4,920 ft, 2 - 1,500 meters
Pin Pole Prism	6.6 - 8,200 ft, 2 - 2,500 meters
Non-Prism Mode	N/A, 1.5 - 250 meters

MEASURING ACCURACY

Prism Mode	±(2mm+2ppmxD*)m.s.e. fine, ±(10mm+2ppmxD*)m.s.e. coarse
Non-Prism Mode	±(3mm+2ppm) m.s.e. fine(25m or more), ±(10mm+2ppm) m.s.e. coarse
Measurement time	1mm:1.2 sec.(Initial 3.0 sec.)/0.2mm:3.0 sec (Initial 4.0 sec.) fine, 0.5 sec.(Initial 2.5 sec.) coarse, 0.3 sec.(Initial 2.5 sec.) tracking
Minimum reading	0.2mm(0.001ft.) / 1mm(0.005ft) fine, 1mm(0.005ft) / 10mm(0.02ft.) coarse, N/A
Measurement time	1mm:1.2 sec.(Initial 3.0 sec.)/0.2mm:3.0 sec (Initial 4.0 sec.) fine, 0.5 sec.(Initial 2.5 sec.) coarse, 0.3 sec.(Initial 2.5 sec.) tracking

ANGLE MEASUREMENT

Method	Absolute
Detection	2 sides horizontal, 2 sides vertical
Minimum reading	1"/5" arc sec, 0.2/1 mgon
Accuracy	2" arc sec, 0.6 mgon
Diameter of Circle	71 Millimeters

TILT CORRECTION

Type	Dual Axis
Compensating Range	±4'
Correction Unit	1" arc sec, 0.1 mgon

ENVIRONMENTAL

Circular level sensitivity	10' /2mm
Plate level sensitivity	30" /2mm
Optical Plummet	3x Magnification, 0.5m to infinity Focusing Range, Erect Image, N/A
Laser Plummet	yes light source
Laser Pointer	2 class, provided point guide
Dimensions (HxWxL)	13.2 x 7.2 x 6.9 inches, 336mm x 184 x 174mm
Instrument Weight (with battery)	11.2 pounds, 5.1 kg
Case Weight	7.1 pounds, 3.2 kg
Dust/Water Protection	IP66 rating
Operating Temperature	-20° to +50° Celsius, -4° to +122° Fahrenheit

POWER

Source	NiMH Battery BT-52Q
Output Voltage	7.2 Volts
Capacity	2,700 mAh
Number of cells	6
Weight:	0.3 kg (0.7lbs)

MAXIMUM OPERATING TIME AT +20°C (+68°F) (when fully recharged)

Including distance measurement	Approx. 4.2 hours
Angle measurement only	Approx. 45 hours

BATTERY CHARGER (BC-27)

Input voltage	AC100-240 Volts
Frequency	50/60 Hertz
Recharging time	2.5 Hours
Operating temperature	+10° to +40° Celsius, +50° to +104° Fahrenheit

Your local Authorized Topcon dealer is: