

# ***Electronic Total Station***

## **CTS Series**

- Optical Excellence
- Powerful On-board Software
- Dual-Large LCD Display
- Easy to Use
- 15,000 Points Internal Memory
- Range Up to 5249-ft (1600m) with Single Prism
- 2-Sec and 5-Sec Accuracy available



**CST/berger**

*No One Measures Up... Worldwide*

# CTS-SERIES

## Electronic Total Station

**Easy-to-Use. Reliable. Affordable.**

Superior Optics (30X magnification)

### Applications

- Surveying and Construction
- Mapping and GIS
- Utilities
- Environmental Studies
- Geomarking

Easy-to-target collimator

Large dual-sided graphic display & alphanumeric keyboard

Alpha/Numeric key pad

Data upload and data-transfer through RS-232 data port

### Standard Configuration

Includes:

- Battery Pack (2)
- Battery Charger
- Plumb Bob
- A set of tools
- Rain Cover
- Carrying Case
- Software and Cable
- Instruction Manual



### Technical Specifications

#### Telescope

Magnification	30 x
Resolving Power	4.0"
Field of View	1° 30'
Minimum Focus	4.92-ft (1.5m)

#### Distance Measurement

Measurement Range (Good condition)	
1 Prism	Up to 5249 ft 1,600m
3 Prism	Up to 8202 ft 2,500m

**EDM Accuracy** ±(2+2ppm x D) mm

**Measuring time** (minimum count)

Precise	1.8 sec. (initial 2.5 sec.)
Normal	1.0 sec. (initial 2.5 sec.)
Track	0.4 sec. (initial 1.5 sec.)

#### Angle measurement

Reading System	Incremental
Horizontal Angle	Diametrical
Vertical Angle	Single
Minimum count	1" / 5"
Angular Accuracy	CST-02 2" CST-05 5"

**Tilt Sensor** Single axis

**Plummet** Optical

**Base** Detachable

**Environment** Water-Resistant

**Ambient Temperature** -4°F ~122°F / -20°C ~ +50°C  
(Working range)

**Tripod thread** 5/8-11

#### Dimensions/Weight

**Instrument** 6.4(W) x 13.5(H) x 7.75(L) in  
163(W) x 343(H) x 197(L) mm

**Weight (incl. Battery)** 14 lb. (6.3 kg)

**Carrying case** 10.0(W) x 15.0(H) x 18.75(L) in/5.7lb  
254(W) x 381(H) x 476(L) mm/2.6kg

#### Internal Memory

**Coordinates Data** 15,000 points  
(Measured and input coordinate data)

#### Note:

- \* The measurement range may vary by measurement conditions.
- Average conditions: 65,616-ft (20km) visibility with slight shimmer.
- Good conditions: 131,233-ft (40km) visibility, overcast, no heat, no shimmer and moderate wind
- \* EDM Measuring time varies according to distance to be measured and conditions of the environment.

Packages Available

**56-CTS02** 2-Second Total Station

**56-CTS05** 5-Second Total Station

Available at your local CST/berger dealer.

# CST/berger

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