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# CST/berger

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### Optima® All-Metal Prisms

Features:

- Premium Series 0/-30mm Constant Prism System
- Fully compatible with leading manufacturers such as Trimble, Sokkia, Topcon, Pentax, Nikon, etc.
- All metal holder and target warranted for life
- Hermetically sealed 2½" (62.5mm) precise prism
- Tension adjusting brass knob
- Nickel plated brass 5/8" x 11 bayonet adapter
- Colors available: Orange, Chartreuse, Yellow

63-1010	All Metal 0/-30mm Single Tilt Prism Assembly with Target
63-1012	0/-30mm Holder with Target Only
63-1015	0/-30mm Target Only
63-1040	30/40mm Prism Assembly with Target
63-1040CC	30/40mm Prism Assembly with Target, Copper Coated Prism
63-1041	30mm Adapter Only
63-1042	30/40mm Single Tilt Holder with Target Only

NOTE: Specify color when ordering 63-1010/-1012/-1015/-1040/-1042. If none is specified, any color in stock will be shipped.



63-1010

### Nitrogen-Filled Optima® N2 Prisms

Prism is hermetically sealed and charged with nitrogen to prevent fogging; ideally suited for cold weather regions as well as high humidity areas.

Features:

- Fully compatible with leading manufacturers such as Sokkia, Topcon, Pentax, Nikon, etc.
- All metal holder and target warranted for life
- Tension adjusting brass knob
- Nickel plated brass 5/8" x 11 bayonet adapter
- Target colors available: Orange, Chartreuse, Yellow
- Canister color available: Black Only

63-1010N	All Metal 0/-30mm Single Tilt Prism Assembly with Target, Nitrogen Filled Prism
63-2011N	Nitrogen Filled Prism in Canister Only, 2½" (62.5mm) diameter, black only

NOTE: Specify color when ordering 63-1010N. If none is specified, any color in stock will be shipped.



63-1010N

### Tilting Triple Prism

Features:

- 0/-30mm offset
- Three hermetically sealed 2½" (62.5mm) precise prisms
- Aluminum holder, target, and yoke, electrostatically powder painted for durability and warranted for life
- Nickel plated brass 5/8" x 11 bayonet adapter
- Colors available: Orange, Yellow

63-2600	0/-30mm Tilting Triple Prism Assembly with Target
63-2601	Triple Holder and Target Only*

\*NOTE: Holder/ Target not available separately.



63-2600

# CST Prisms

Designed to optimize performance and maximize value



## Universal Series Prisms

### Features:

- 0/-30mm offset
- Precision ground glass up to 2 arc seconds
- Fully compatible with leading manufacturers such as Trimble, Sokkia, Topcon, Pentax, Nikon, etc.
- Hermetically sealed 2 1/2" (62.5mm) Precise prism
- Prism can mounting thread: M20 x 2
- Single tilt holder tilts to 350°
- Stainless steel hardware
- Nickel plated brass 5/8" x 11 bayonet adapter
- Prism canister and holder/target molded from durable lightweight polycarbonate
- Holder and yoke carry a **three year warranty**
- Colors available: Red, Yellow, Black, Hi-Vis Chartreuse

### 0/-30mm Universal Prisms with Metal Yoke

Our Universal prism assembly is available with an aluminum yoke



**warranted for life**, and features Delrin™ washers for excellent wear and long-term performance. Ribbed yoke design ensures lasting tension on your target.

63-2010	Universal Series Single Tilt Prism Assembly (0/-30mm)
63-2010M	Universal Series Single Tilt Prism Assembly, Metal Yoke
63-2012M	Metal Yoke Single Tilt Holder with Target Only
63-2016M	Metal Yoke Only for 63-2010/63-2010M
63-2012	Single Tilt Holder with Target Only
63-2015	Target Only for 63-2010/63-2010M
63-2016	Yoke Only for 63-2010
63-2017	Prism Can Only (with "O" ring)
63-2018	2 1/2" Lens Cover
63-3033	Universal nickel plated brass 5/8" x 11 bayonet adapter only

NOTE: Specify color when ordering 63-2010/63-2010M/-2012/-2015/-2016/-2017. If none is specified, any color in stock will be shipped.

## Prisms in Canisters

Our 2 1/2" (62.5mm) prisms are hermetically sealed to prevent loss of range or accuracy due to contamination. Will fit any prism holder with a 5/8" x 11 female thread. Colors available: Ivory Grey, Black, Orange, Red, Yellow, and Chartreuse. M20 stud.

- 63-2011 Precision Prism in Canister
- 63-2011S Seconds Prism in Canister
- 63-3011 Copper Coated Precision Prism in Canister



## Geotronics Compatible Prisms in Canisters

Our standard prism cans are available with Geotronics mounting threads. These prisms are fully compatible with Geotronics holders utilizing the same mounting threads. Range of prisms is comparable to Geotronics...all this at a fraction of the price. 62.5mm prism diameter. Color available: Orange.

- 63-2011G Precision Prism in Canister, Geotronics Threads
- 63-3011G Copper Coated Precision Prism in Canister, Geotronics Threads

## Lighted Prism in Canister

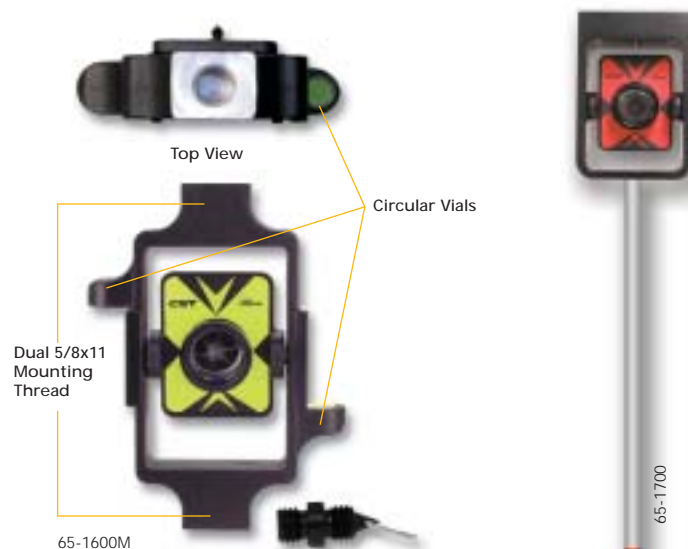
Cutting-edge technology! A flashing red LED centered within the prism allows easy targeting over long distances or under adverse weather conditions. LED and two LR44 (1.5V) batteries are completely contained within the hermetically sealed canister. Can be used with any offset and is compatible with all assemblies with M20 threads.



- 63-4011 Lighted Prism in Canister



Designed to optimize performance and maximize value



### Retro Prisms

When your EDM/Total Station calls for round retro prisms, specify durable CST retro prisms. Our aluminum holders are precisely machined and electrostatically painted for a long-lasting finish. Each prism is encased in a light and rugged Lexan container. A red and white sighting pole is included with each assembly.

#### Features:

- -30mm offset (0mm available at additional cost by special request)
- 27/8" (73mm) prism diameter
- Prism accuracy to 2 arc seconds (input-output deviation), 1/2 to 1 fringe total wave front distortion (overall performance as measured on an interferometer)

64-2000	Triple Prism Assembly, aluminum mount. Threaded sides permit stacking of multiple mounts without special brackets
64-2010	Single Prism Assembly, aluminum mount
64-2011	Retro Prism in Lexan container Only
64-2011S	Seconds Retro Prism in Lexan container Only
64-2012	Aluminum Single Prism Mount Only
64-2013	Aluminum Triple Prism Mount Only
64-2014	27/8" (73mm) Plastic Lens Cover
64-2015	Retainer Screw for Retro Prism
64-2016	Lock Nut
64-2017	Sighting Pole
64-2018	Lexan Container Only
64-2019	Aluminum Container Only
64-2020	27/8" Retro Prism in Aluminum Container Only
64-2025M	27/8" Retro Prism Assembly, Polycarbonate Tilting Target Mount with Metal Yoke
64-2026M	Polycarbonate Tilting Target Mount with Metal Yoke Only for 64-2025M
64-2026	27/8" Polycarbonate Tilting Target Mount Only
64-2530	Single Target Only for 64-2010
64-2531	Triple Target Only for 64-2000



### Mini Prism System for Stakeout Jobs

Specially designed for close-in stakeout jobs, this prism system has dual 5/8" x 11 screw threads to allow threading in of poles on each end. Dual circular vials are standard. Includes padded carrying case and prism point. Prism Dia 25.4mm. Color available: Black with Chartreuse Target.

65-1600M Mini Prism System for Stakeout Jobs



### Mini Stake-Out Prism/Pole System

Precision CNC machined sectional poles and mini prism tilting holder can be configured many different ways to suit any application. Poles are machined and anodized silver and red.

#### Features:

- One 25mm precise mini prism with 0/-30mm offset tilting aluminum prism and holder. 30 minute circular vial is enclosed in metal housing which is shielded by the holder
- Hardened replaceable plumb bob steel points
- Four 30cm sections anodized in alternating silver and red finish, 13mm diameter, 1/4-20 threads
- Padded carrying case with separate pockets for pole sections, prism system and 2 points



Carrying Case

65-1700 Prism is available in Black with Red, Yellow or Chartreuse Target



Steel Points

## CST Prisms

*Designed to optimize performance and maximize value*

### All Metal Peanut Pack™ Mini Prisms

The Peanut Pack provides low cost versatility for shots up to 3000 feet (900m). It's small and light, making it priceless on shots that involve rough terrain. The versatile mounting options create more freedom and speed in setup. The Peanut Pack is virtually indestructible under most working conditions, as it is precision-machined from die-cast aluminum then electrostatically powder-painted for a long-lasting and durable finish.

**One year warranty.**

#### Features:

- 0/-30mm offset on dual-sided aluminum tilting target
- 1" (25.4mm) diameter prism, sealed in black anodized aluminum can
- Durable threaded can and ring with special "O" ring for sealing
- On-board offset circular bubble vial
- 5/8" x 11 mounting thread
- Dual-sided target design
- Target tension adjusting screws
- Precision prism ground up to 2 arc seconds
- Can's point permits measurement of corners (offset 0mm)
- Custom made lens cover
- Colors available: Black with Red, Yellow, or Chartreuse Target



"All Metal" Tension screw & circular vial



65-1500M

- 65-1500M "Peanut Pack" All-Metal Mini Prism Assembly, includes plumb bob prism mount, prism point, padded Cordura case with belt loop, and manual
- 65-1503M All Metal Holder with Target Only
- 65-1505M All Metal Mini Tilting Target Assembly with Prism

*See page 5 for Leica Compatible and page 6 for Zeiss Compatible mini prism assemblies.*

### The "Original" Peanut Pack™ Mini Prisms

Similar to above, with holder and target molded from durable high-impact ABS plastic. **One year warranty.**

#### Features:

- 0/-30mm offset on dual-sided tilting target
- 1" (25.4mm) diameter prism, sealed in black anodized aluminum can
- On-board bubble level vial on holder
- 5/8" x 11 mounting thread
- Dual-sided target
- Stainless steel hardware
- Precision prism ground up to 2 arc seconds
- Can's point permits measurement of corners
- Custom made lens cover
- Colors available: Red, Yellow, Black



65-1500

- 65-1500 "Peanut Pack" Mini Prism Assembly, includes plumb bob prism mount, prism point, padded Cordura case with belt loop, and manual
- 65-1503 Holder with Target Only
- 65-1505 Mini Tilting Target Assembly with Prism
- 65-1505S Seconds Mini Tilting Target Assembly with Prism
- 65-1507 Point and Plumb Bob Hook Only
- 65-1510 Plumb Bob Mount and Prism Assembly
- 65-1512 1" (25.4mm) Prism in Can Only
- 65-1512S Seconds 1" (25.4mm) Prism in Can Only
- 65-1516 Plumb Bob Mount Only
- 65-1545 Leather Case for 8 oz. Plumb Bob Only



65-1510

### Leica Compatible Snap-In Prisms

Just because you paid a lot for your EDM/Total Station, doesn't mean you have to for your prism system. CST's "snap-in" prisms and holders are compatible and interchangeable with Leica/Wild holders and prisms. **One year warranty.**

**Features:**

- -34mm offset with Leica type H.I. and push-button mounting
- High precision copper coated prism
- H.I., offset, and push button on holder Leica GPH1 compatible
- Color available: Black

- 
- 63-3022 GPH1/GPR1 Type Snap-In Coaxial Single Tilt Assembly
  - 63-3023 Same as Above Plus GZT44 Type Target
  - 63-3024 Leica GPR1 Type Snap-In Copper Coated Prism Only
  - 63-3025 GPH1 Type Snap-In Single Holder Only
  - 63-3026 GZT44 Type Target Only for GPH1 Type Holder



### Leica Compatible 62.5mm Prisms

**Features:**

- -34mm offset with Leica type H.I. and push-button mounting
- Hermetically sealed 2 1/2" (62.5mm) copper coated prisms
- Tilting prism holder and target molded from impact-resistant Lexan
- Holder and yoke carry a **three year warranty**
- Color available: Black/Yellow



Push Button Mounting

- 
- 63-3010 Leica GPH1A Type Single Tilting Prism Assembly
  - 63-3012 GPH1A Type Single Tilt Holder and Target Only
  - 63-3013 2 1/2" (62.5mm) Lens Cover
  - 63-3014 Holder Yoke Only for 63-3010/63-3020
  - 63-3020 Leica GPH1 Type Single Tilting Prism Assembly with Coaxial Target
  - 63-3021 GPH1 Type Single Tilt Coaxial Holder and Target Only



### Optima® All Metal Leica GPH1 Compatible Prism Assembly

Featuring an aluminum coaxial target, holder, yoke, and Optima's **lifetime warranty**. Color available: Hi-Vis Chartreuse/Black. See page 1 for Optima details.

- 
- 63-4020 Leica GPH1 Type -34mm offset Optima Single Tilt Prism Assembly with Coaxial Target
  - 63-4021 Holder with Coaxial Target Only
  - 63-4022 Yoke with Coaxial Target Only



### Peanut Pack™ Leica Compatible All Metal Mini Prism Assembly

Color available: Black with Chartreuse Target. See page 4 for Peanut Pack details.

- 
- 65-3500M Leica Compatible "Peanut Pack" All-Metal Mini Prism Assembly: copper coated prism, prism point, and Cordura case
  - 65-3501M Leica Compatible All Metal Holder with Target Only
  - 65-3507 Prism Point with Spigot Only
  - 65-3512 Copper Coated Mini Prism





## Zeiss/Trimble Compatible Prisms

-35mm offset prisms designed for use with Zeiss EDMs and Total Stations

### Optima® Zeiss/Trimble Compatible

#### All Metal Prism Assembly

Featuring Optima's aluminum target, holder, yoke, and lifetime warranty. Color available: Hi-Vis Chartreuse/Black. See page 1 for Optima details.

63-1035 -35mm Offset Optima Zeiss/Trimble Compatible Prism assembly

63-1036 -35mm Offset Optima Zeiss/Trimble Compatible Holder Only



63-1035

### Zeiss/Trimble Compatible "Snap-In" Prisms

Don't pay a lot for Zeiss/Trimble compatibility! The same easy-to-use "snap-in" prisms available with our Leica snap-in assembly are now available with a -35mm Zeiss/Trimble compatible holder.

#### Features:

- -35mm offset Zeiss/Trimble compatibility
- Black anodized aluminum 5/8" x 11 bayonet adapter
- High precision copper coated prism
- Color available: Black

63-5035CZ Zeiss/Trimble Compatible Snap-In Single Tilt Assembly With Target

63-5036CZ Zeiss/Trimble Compatible Snap-In Single Holder Only

63-3024 Zeiss/Trimble Compatible Snap-In Copper Coated Prism Only

63-3026 Target Only for Zeiss/Trimble Compatible Holder



63-5035CZ

### Peanut Pack™ Zeiss/Trimble Compatible All Metal Mini Prism Assembly

Color available: Black with Chartreuse Target. See page 4 for Peanut Pack details.

65-5035M -35mm Offset Zeiss/Trimble Compatible All-Metal Mini Prism Assembly, includes plumb bob prism mount, prism point, and padded Cordura case with belt loop



63-5035M

### Robotics Prism

CST's high precision 360° robotic prisms ensures tracking lock with the robotic instrument is quick.

#### Features:

- 6 high precision copper coated 25.4 mm prisms housed in a precisely CNC machined aircraft grade aluminum housing
- Dual 5/8-11 mounting threads (female)
- 0 mm offset

65-360R Robotics Prism

One free adapter is supplied with each unit. Special adapters available to match different brand total stations. Specify when ordering: Topcon, Spectra, Leica, Zeiss, etc.



65-360R-RED  
RED-SPECTRA

Prism Height  
135mm

Brand	Prism Height	Order Number
Zeiss	100 mm	65-360R-BLU
Spectra Precision	135 mm	65-360R-RED

**Right Angle Prisms**

**66-900 Right Angle Triangular Prism**

Single prism, complete with soft leather pouch. Slot in handle accommodates plumb bob cord. Measures 2 3/8" (60mm) top to bottom.



66-900

**66-911 Large Double Right Angle Penta Prism**

Permits stepping off angles of 90° and 180° with a center lens which permits foresight viewing. Slot in handle accommodates plumb bob cord. Features a larger field of view, and larger foresight viewing glass. Complete with leather belt loop case. Measures 3 3/4" (95mm) top to bottom.



66-911



66-912

**66-912 Large Double Right Angle Penta Prism with Optical Plummet**

Has a unique feature for 270° sighting and point location. Measures 4 3/4" (121mm) top to bottom.

**Low Cost Reflector System**

This low cost reflector system is ideal for short range measurements as well as for jobs where retrieving the reflector is not an option. Features a -34 offset tilting reflector holder constructed of high impact ABS, with 3M® diamond grid reflector tape. Brass push-button Leica Style mounting mechanism.

**63-4000 Low Cost Reflector System**



63-4000



65-1505RL

*Great for short distance shots. Lower cost.*

**Mini Prism for Reflectorless Total Stations**

Features the 65-1503M aluminum holder, target, and bubble vial, plus a special 3M™ reflective decal. 0mm offset and 5/8" X 11 mounting thread.

**65-1505RL Reflectorless Mini Prism**

**Robotics Prism**

CST's high precision 360° robotic prisms ensures tracking lock with the robotic instrument is quick.

**Features:**

- 6 high precision copper coated 25.4 mm prisms housed in a precisely CNC machined aircraft grade aluminum housing
- Dual 5/8-11 mounting threads (female)
- 0 mm offset

**65-360R Robotics Prism**

*One free adapter is supplied with each unit. Special adapters available to match different brand total stations. Specify when ordering: Topcon, Spectra, Leica, Zeiss, etc.*

Brand	Prism Height	Order Number
Topcon	77mm	65-360R-GLD
Zeiss (Not Shown)	100 mm	65-360R-BLU
Leica	86 mm	65-360R-BLA
Spectra Precision	135 mm	65-360R-RED



Prism Height 86mm  
65-360R-BLA  
BLACK- LEICA

Prism Height 135mm  
65-360R-RED  
RED-SPECTRA

65-360R-GLD  
GOLD-TOPCON  
Prism Height 77mm



## Prism Poles

Choose from four different locking mechanisms to suit your needs

### Quick-Lok™ Prism Poles

Offers fast setup and positive clamping without pinched fingers! Forget about inaccurate readings due to a slipping pole—the Quick-Lok will get the job done with its fast setup and positive clamping.

All Quick-Lok poles feature sturdy and dent-resistant aluminum construction. The pole's top section is anodized and imprinted with permanent graduations.

**Warranted for life;** the bottom section is electrostatically powder painted for durability. The pole is designed to be easily cleaned and serviced. Adjust clamping tension yourself to suit your needs. The Quick-Lok's wide clamping surface will not scratch pole graduations, and assures a tight clamp. Each pole includes a circular level vial and replaceable hardened steel point. Features 10ths and metric (every 2mm) graduations and precise adjustable 5/8" X 11 mounting stud to suit all commonly used prisms.



Quick-Lok Mechanism

	Outer pole diam.
67-4508TMA 8'/2.5m, 2 Section Quick-Lok™ Pole	1 1/4" (32mm)
67-4509TMA Lightweight Version of 67-4508TMA	1" (25mm)
67-4512TMA 12'/3.6m, 3 Section Quick-Lok™ Pole	1 1/4" (32mm)
67-4515TMA 15'/4.6m, 4 Section Quick-Lok™ Pole	1 1/2" (38mm)

### Leica Compatible Quick-Lok™ Prism Poles

These poles are compatible in all aspects with Leica and CST Leica-compatible prisms. Construction and clamping mechanism is the same as our high quality Quick-Lok Prism Poles, but with a Leica mounting stud. Bottom sections are electrostatically painted in alternating white and red stripes.

Features 10ths and metric (every 2mm) graduations and Leica type mounting stud.

	Outer pole diam.
67-4508TML 8'/2.5m, 2 Section Quick-Lok™ Pole	1 1/4" (32mm)
67-4512TML 12'/3.6m, 3 Section Quick-Lok™ Pole	
67-4515TML 15'/4.6m, 4 Section Quick-Lok™ Pole	1 1/2" (38mm)

### Leica GLS 11 Compatible Quick-Lok™ Prism Pole

- Lightweight pole is similar in construction and appearance to Leica GLS 11; silver anodized bottom section
- 10ths and metric graduations
- Leica type mounting stud

	Outer pole diam.
67-4509TML 2m, 2 Section Quick-Lok™ Pole, Leica GLS 11 compatible	1" (25mm)

### Quick-Lok™ Composite Prism Pole

CST proudly introduces our new Composite Prism Pole, for surveyors who need an ultra-lightweight version of our regular Quick-Lok pole.

Our use of dent- and kink-resistant fiberglass composite sections and lightweight aircraft aluminum inserts make the pole up to 30% lighter than all-aluminum and brass prism poles.

The pole's lightweight aluminum top section is imprinted with permanent graduations. This pole includes a circular level vial and replaceable hardened steel point. Features 10ths and metric (every 2mm) graduations and precise adjustable 5/8" X 11 mounting stud to suit all commonly used prisms. **One Year Warranty.**

*NOTE: Not to be used with bipods & tripods; may cause damage*

	Outer pole diam.
67-4608TMA 8'/2.5m, 2 Section Quick-Lok™ Composite Prism Pole	1 1/2" (38mm)



67-4508TMA

67-4512TMA

67-4509TML

67-4608TMA

(Picture Shown with Topo Shoe)

### Tru-Lock™ Prism Poles

No slipping, no pinching, no need for a "third hand"! CST's patented (US #5,595,410) Tru-Lock™ Prism Poles have been designed to provide nonslip positive clamping as well as quick release features. The end user will not have to fear pinched fingers or the cumbersome and awkward features of other "nonslip" poles. This combination of positive locking and quick release features is unparalleled by any competitive product.



Tru-Lock™ Mechanism

The Tru-Lock™ locking mechanism is manufactured from impact-resistant Delrin™ and is self-contained; there are no exposed parts to break off or springs to lose. This mechanism also features a **one year warranty**. Our unique printing process produces accurate graduations that are wear and weather-resistant, and are covered by a **lifetime warranty**. Recessed circular bubble vial for vertical alignment is standard on all CST prism poles.

Features 10ths and metric (every 2mm) graduations and precise adjustable 5/8" X 11 mounting stud to suit all commonly used prisms.

	Outer pole diam.
67-4408TMA 8'/2.5m, 2 Section Tru-Lock™ Pole	1 1/4" (32mm)
67-4409TMA Lightweight Version of 67-4408TMA	1" (25mm)
67-4412TMA 12'/3.6m, 3 Section Tru-Lock™ Pole	1 1/4" (32mm)
67-4415TMA 15'/4.6m, 4 Section Tru-Lock™ Pole	1 1/2"



Collet Lock Mechanism

### Brass Collet Lock Prism Poles

These telescoping prism poles are constructed of high strength aluminum that is resistant to warping and breakage. The bottom section is carefully treated and painted in alternating sections of red and white. The graduated sections are anodized silver with uneraseable, impregnated black graduations. Each pole features a recessed circular vial for vertical alignment, and a replaceable hardened steel point. Available in graduated (10ths and metric) and non-graduated models with nonadjustable 5/8" X 11 mounting stud; Wild/Leica type mounting stud is available.

	Outer pole diam.
67-4204 4'/1.25m 2 Section Mini Prism Pole, Non-Graduated	1 1/4" (32mm)
67-4209 8'/2.5m 2 Section Prism Pole, Non-Graduated	1 1/4" (32mm)
67-4209TM 8'/2.5m 2 Section Prism Pole, 10ths/Metric	1 1/4" (32mm)
67-4212 12'/3.6m 3 Section Prism Pole, Non-Graduated	1 1/4" (32mm)
67-4212TM 12'/3.6m 3 Section Prism Pole, 10ths/Metric	1 1/4" (32mm)
67-4215TM 15'/4.6m 4 Section Prism Pole, 10ths/Metric	1 1/2"

NOTE: For Leica mounting stud, please add an "L" to the catalog number (67-4209TM with Leica stud will be 67-4209TML).

### Collet Lock Prism Poles, Adjustable H.I.

These precise prism poles allow adjustments for all 5/8" x 11 mounting prisms to assure proper H.I. Collar type locking device ensures a positive setting. Adjusting range 3" (75mm).

Features 10ths and metric (every 2mm) graduations and precise adjustable 5/8" X 11 mounting stud.

	Outer pole diam.
67-4209TMA 8'/2.5m 2 Section Prism Pole	1 1/4" (32mm)
67-4212TMA 12'/3.6m 3 Section Prism Pole	1 1/4" (32mm)
67-4215TMA 15'/4.6m 4 Section Prism Pole	1 1/2" (38mm)



67-4408TMA

67-4415TMA

67-4209TM

## Prism Poles & Range Poles

Designed to optimize performance and maximize value

### Quick Release Prism Poles

The clamping mechanism is a pistol grip, quick release type which allows fast setup and take-down. Special 409 blue "Lock-Tite™" holds set screw in position but allows adjustment of clamping tension to individual preference. Heavy duty spring is recessed into handle for protection and does not come out during field use. The bottom aluminum section is carefully treated and polished prior to being electrostatically powder painted translucent candy apple red with precise striping in white. 5/8" x 11 mounting stud.



		Outer pole diam.
67-4304	4'1.25m 2 Section Mini Prism Pole, Non-Graduated, Nonadjustable Stud	1 1/4" (32mm)
67-4308TM	8'2.5m, 2 Section Prism Pole, 10ths/Metric, Nonadjustable Stud	1 1/4" (32mm)
67-4308TMA	8'2.5m, 2 Section Prism Pole, 10ths/Metric, Adjustable Stud	1 1/4" (32mm)
67-4312TM	12'3.6m, 3 Section Prism Pole, 10ths/Metric, Nonadjustable Stud	1 1/4" (32mm)
67-4312TMA	12'3.6m, 3 Section Prism Pole, 10ths/Metric, Adjustable Stud	1 1/4" (32mm)

### Duralast Range Poles

Constructed of a high strength aluminum core with alternating international orange and white ABS plastic tubing permanently attached to the aluminum. The heavily pigmented colors will resist fading and weathering under the toughest conditions. The pole is 1 1/16" (27mm) in diameter with 5/8" x 11 thread joints for quick and easy assembly. Furnished complete with a solid steel hardened point.

Metric Duralast range poles feature the same construction as regular Duralast poles. Two 1.25m sections create a 2.5m pole, with alternating white and orange every 50cm.

68-3706	Two 3 ft. Sections, 6' total
68-3708	Two 4 ft. Sections, 8' total
68-3710	Two 3 ft. Sections and One 4 ft. section, 10' total
68-3712	Three 4 ft. Sections, 12' total
68-3713	Additional 4 foot section
68-3715	Two 1.25m Sections, 2.5m total
68-3716	Additional 1m Section
68-3720	2m, 2 Section Range Pole
68-3731	2 ft. Range Pole Section
68-3732	1 ft. Range Pole Section
68-3740	Shoe for all Duralast Poles
68-3741	Cap for Duralast Poles
68-3742	Double End 5/8" x 11 Male Adapter

### "Value Line" Telescoping Range Poles

Ideal for the economy-minded user, our Value Line range poles are made from lightweight extruded aluminum sections and impact-resistant ABS and Delrin. Cam-locking 2-meter telescoping sections feature alternating red and white stripes 8" (20cm) apart. Extended height is 2 meters, collapsed height is 1.2 meters. A 5/8" x 11 prism adapter is standard on 68-3922P.

68-3922	2m, 2 section Value Line Range Pole
68-3922P	2m, 2 section Value Line Range Pole, with 5/8" x 11 prism adapter



### Powder Painted Range Poles

Manufactured from high strength aluminum tubing which is electrostatically powder painted white then striped red. Pole diameter is 1" (25mm), with 5/8" x 11 thread joints for quick and easy assembly. Furnished with replaceable hardened steel point.

68-3808	8', 2 Section Range Pole
68-3812	12', 3 Section Range Pole
68-3815	2m, 2 Section Range Pole
68-3817	3m, 3 Section Range Pole





**The "Gator" Tripod**

This tripod is the ideal low cost alternative to range pole and prism pole tripods. The spring loaded "jaw" of the tripod head will securely hold range and prism poles (3/4" to 1-1/4") 15mm to 32mm in diameter. The "jaw" pivots around a ball and socket assembly allowing easy adjustments in pole orientation. Steel legs and die-cast aluminum head are electrostatically powder painted for a weather resistant long lasting finish.

**68-3950** "Gator" Tripod for range and prism poles

**Range Pole Tripods**

Constructed of heavy aluminum tubing and castings, with quality fittings for a long life of rough treatment. Adjustable for uneven terrain, accommodates range poles of all commonly used sizes up to 1 1/4" in diameter. Durable plastic liners protect range pole finish.

**68-3750** Range Pole Tripod with Leg Braces, international orange

**68-3751** Range Pole Tripod, yellow

**Prism Pole Bipods & Tripods**

Our prism pole bipods and tripods allow simple, easy, and quick setup on even or uneven ground. Plus, they are now improved with a new side-entry head with clamp for easier and faster pole setup. Impact resistant materials, replaceable shoes with spurs, and quick release telescoping aluminum legs are standard features on these popular products, and priced well below our competition.



All bipods and tripods fit poles from 1" to 1 1/2" (25mm to 38mm) in diameter.

Standard quick release tripod and bipod are 73" open, 44" closed in height. CST's thumb release tripod and bipod offer quick and easy adjustments with a push of a button. Rotate each button to adjust clamping tension to your needs. Unscrewing the stop guides allows cleaning and servicing without the use of tools. All metal construction. 71 1/2" open, 42 1/2" closed height.

The Quick-Lok tripod and bipod offers the same nonslip quick clamping available on our Quick-Lok prism poles. 71 1/2" open, 41" closed height.

- 67-4250** Tripod, standard quick release
- 67-4250X** Thumb Release Tripod
- 67-4250QL** Quick-Lok Tripod
- 67-4260** Bipod, standard quick release
- 67-4260X** Thumb Release Bipod
- 67-4260QL** Quick-Lok Bipod

*NOTE: Not to be used with composite pole*

**Prism Pole & Range Pole Bags**

All bags, except for range pole bags, have a shoulder carrying strap. Prism Pole Bags have a Velcro™ closing strip at top. Nylon Cordura™ construction. Color available: Orange; Yellow available by special order of 20+.

- 67-4255** Bag for Prism Pole/Range Pole Tripods and Bipods
- 67-4256** Bag for 8' / 2.5m Prism Pole
- 67-4257** Bag for 12' / 3.6m and 15' / 4.6m Prism Poles
- 68-3706-1** Nylon Case for 6' 2 Section Range Pole (68-3706)
- 68-3708-1** Nylon Case for 8' 2 Section Range Pole (68-3708, 68-3808)
- 68-3710-1** Nylon Case for 10' 3 Section Range Pole (68-3710, 68-3817)
- 68-3712-1** Nylon Case for 12' 3 Section Range Pole (68-3712, 68-3812)
- 68-3715-1** Nylon Case for 2.5m 2 Section Range Pole (68-3715, 68-3815)

**Pole Accessories**

- 67-4258** Prism Pole Topo Shoe. Flat surface ensures accuracy; 5/8" x 11 thread
- 68-3740** Range Pole/Prism Pole Point; hardened steel, 5/8" x 11 thread



## Adapters

Value oriented price and quality combination



## Adapters

- 61-2510 Tripod Adapter**  
For adapting 5/8" x 11 tripod to 31/2" x 8, anodized aluminum construction.
- 61-2510A Tripod Adapter**  
For adapting 31/2" x 8 tripod to 5/8" x 11, anodized aluminum construction.
- 61-2513 Leica Prism Pole Adapter**  
For adapting Leica snap-on prisms to 5/8" x 11 tribrach adapter or prism pole.
- 61-2514 SK Rod Adapter**  
For attaching 5/8" x 11 prisms to Sokkia SK oval rods.
- 61-2515 Leica Prism Adapter**  
For adapting Wild/Leica prism poles to 5/8" x 11 prisms.
- 61-2520 Chicago Fixed Tribrach Adapter**  
Adapts 5/8" x 11 thread to Chicago or other brand tribrach. Allows installation of Chicago prisms or other 5/8" x 11 female thread accessories into tribrach.
- 61-2521 Rotating Tribrach Adapter**  
Same as 61-2520, but with a rotating friction top featuring smooth operation and adjustable tension. CST's most popular adapter, it allows you to point prisms after installation in the tribrach.
- 61-2525 Zeiss-Wild Rotating Tribrach Adapter with Removable Center**  
Adapts retro prisms to Wild-type tribrachs, with a removable Zeiss plug for adapting prisms to Zeiss tribrach. The 3/4-circle brass lock ring will not mar Zeiss theodolite plug and always springs back for easy insertion and removal. The removable 5/8" x 11 center is available individually; order cat. #61-2526.

## "Heads Up" Rod Level

Safety first with the new "Heads Up" rod level from CST. We've added safety to routine surveys in traffic areas. "Heads Up" rod level allows the rod person to look up, keeping the instrument person in sight and know when to relax or "plumb up". No more neck aches from looking up and down frequently. Survey faster, feel safer, more comfortable and keep an eye on the traffic flying by.

### Features:

- One precise 10 minute vial
- Two viewing angles with large viewing aperture: 7/16"
- Special penta prism allows direct reading of adjustable circular bubble
- Machined and anodized aluminum housing with heavy-duty clamp screw allows use with poles of 9 mm to 38mm (3/4" to 1-1/2") diameter.

**06-751 "Heads Up" Rod Level**





**Tribrachs**

CST Wild-type Tribrachs offer precise plumbing of surveying instruments and adapters, and have a universal 5/8" x 11 base plate. These tribrachs meet or exceed the quality and construction standards of leading Japanese, Swiss, and German brands.

**Features:**

- Superior price and quality combination
- Circular leveling sensitivity: 10'/2mm
- Optical plummet focusing range: 1.5 to 50 ft. (0.5 to 15m)
- Weight: 1.85 lbs. (.84kg)
- Colors available: Black, Green, Grey, or Yellow

- 61-3500 Tribrach with Optical Plummet\*
- 61-2501 Tribrach without Optical Plummet\*

**“Value Line” Tribrachs**

**Features:**

- Value oriented price and quality combination
- Circular leveling sensitivity: 10'/2mm
- Optical plummet focusing range: 1.5 to 50 ft. (0.5 to 15m)
- Weight: 1.85 lbs. (.84kg)
- Colors available: Black, Green, Grey, or Yellow

- 61-4500 Value Line Tribrach with Optical Plummet\*
- 61-4501 Value Line Tribrach without Optical Plummet\*

*\*\*NOTE: Specify color by adding the appropriate code to the catalog number: BLK=Black, GRN=Green, GRY=Grey, YEL=Yellow*

**Tribrach Adapters with Optical Plummet**

- 61-3510 Leica Style Adapter, Green
- 61-3511GRY Pentax/Sokkia Style Adapter; Grey
- 61-3511YEL Topcon Style Adapter, Yellow
- 61-3520 Fixed Leica/Wild GRT-44 Type Reflector Carrier, Green

**Tribrachs With Laser Plummet**

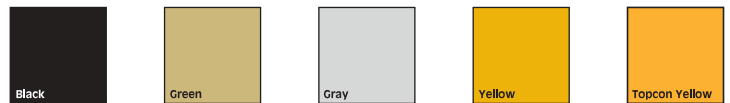
Get all the benefits of a laser plummet tribrach at prices below most optical plummet tribrachs! Laser plummets provide precise and prompt positioning over a point using a focused laser dot, visible even in bright sunlight with a bright 635nm diode (Class II) with 3 element glass lens.

**Features:**

- Laser dot diameter ≤ 2mm @ 2m (6')
- One “CR2” Lithium cell battery provides 60+ hours intermittent use
- Universal 5/8" x 11 mounting thread
- Ten minute sensitivity; ±1mm plumbing accuracy
- Colors available: Black, Green, Grey, Yellow, or Topcon Yellow

- 61-4635 Tribrach with Laser Plummet\*\*

*\*\*NOTE: Specify color by adding the appropriate code to the catalog number: BLK=Black, GRN=Green, GRY=Grey, YEL=Yellow, TYL=Topcon Yellow.*





## Bags & Cases

Protect your investment with these tough cases



### Padded Carrying Bags

Fully zippered carrying bags hold prisms and other EDM accessories. Easy-to-clean Cordura™ with shock-absorbing double-padded construction protects equipment against sudden blows or jolts. Bags have strong carrying straps. Color available: Orange; Yellow available by special order of 20+.

- 61-2540 Medium Prism Bag (Use for 63-1010, 63-2010, etc.)  
12" x 10" x 5" (30cm x 25cm x 13cm)
- 61-2541 Small Prism Bag (Use for 64-2010, 63-3030, etc.)  
8" x 7" x 6" (20cm x 18cm x 15cm)
- 61-2542 Bag for Complete Prism System (tribrach, adapter, and 63-1010 assembly)  
17" x 11" x 4" (43cm x 28cm x 10cm)
- 61-2543 Small Instrument Case w/ metal belt hook,  
4 1/2" x 9" x 2 1/2" (11cm x 23cm x 6cm)
- 61-2544 Bag for printers and sensitive instruments,  
10" x 15" x 3" (25cm x 38cm x 8cm)
- 61-2545 Mini Case with belt loop (Runts, Mini prisms, small accessories)
- 61-2549 Extra Tall Bag (for triple prism, tribrach and adapter)
- 61-2630 Padded Cordura™ Radio Pouch
- 61-2631 Cordura™ Radio Pouch

### Total Station Field Cases

These densely padded heavy-duty field cases are compatible with most total stations, theodolites, lasers, GPS receivers, etc. Cordura™ exterior is water resistant. Light weight and wide waist and shoulder straps ensure comfort and stability. Color available: Orange; Yellow available by special order of 20+.

- 61-2546 Field Case, front loading
- 61-2547 Field Case, top loading



### Stake Bags

Heavy-duty Cordura™ stake bags contain center pocket with three additional pockets on front of bag and at each end. Color available: Orange; Yellow available by special order of 20+.

- 20-757 18" x 12" x 6" (45cm x 30cm x 15cm) center pocket
- 20-759 26" x 12" x 6" (71cm x 30cm x 15cm) center pocket

### Wire Stake Bags

Similar to above, with additional wire insert for rigidity.

- 20-760 15" (38cm) length, 6" (15cm) diameter
- 20-761 21" (53cm) length, 6" (15cm) diameter
- 20-762 36" (91cm) length, 6" (15cm) diameter

### Lath Bags

These heavy duty Cordura™ lath bags are available in three styles. The bags can hold 50 laths. Color available: Orange; Yellow available by special order of 20+.

- 20-764 Oversized Bag for 48" (122cm) long laths
- 20-765 Bag for 36" (91cm) long laths, over the back style
- 20-766 Bag for 48" (122cm) long laths, with handles to carry like a tool box

### Contractor's Pouches

- 11-740 **Surveyor's 7-Pocket Professional Pouch**  
Made of top grain saddle leather with a wide preformed pocket for standard field books, a pocket for six-foot box rules, two pockets for markers and crayons, and a tapered holster for plumb bobs up to 16 oz. in size. Includes a snap-lid front pocket and an open-end side pocket with space for 10 marking pins.

- 11-741 **6-Pocket Pouch**  
Large 9" x 12" (23cm x 30cm) belt loop pouch. Storage slots are provided for carrying lumber crayons, felt markers, wood rulers or other tools.

- 11-743 **Heavy Duty Web Belt**  
Adjustable utility belt features a strong snap-on buckle assembly and can be used for carrying scabbards and tool pouches.

- 11-744 **8-Pocket Nail & Tool Bag**  
Made of heavy duty "ball glove" leather.

- 11-745 **Saddle Leather Tape Holder**  
Holds most 16' and 25' "pocket" tapes. Snap closure.

Designed to optimize performance and maximize value

### Robotics Tripods

CST's heavy-duty Robotics Tripod provides a secure base for your automated Total Station. Three models are available: all-aluminum, all-composite, and composite/wood construction.

**Features:**

- Large round head provides stable mounting base with brass 5/8" x 11" instrument fastener.
- Double clamping mechanism on composite / wood model.
- Data collection / battery bracket attached to the outside of one leg, is standard for composite and composite/wood models
- Large quick release levers are standard on all tripods.
- For added stability, the composite and composite/wood, tripods have a cable and snap-lock system linking the 3 leg assemblies.
- Aluminum tripods has a special center column and three connecting side struts for added stability.
- Hardened replaceable shoe points
- Composite/Wood tripod features highest grade North American hard maple dowels to ensure highest level performance.

60-RT20ALW	Aluminum
60-RT20FG	All Composite
60-RT20WDF	Composite and Wood

### Robotics Prism

CST's high precision 360° robotic prisms ensures tracking lock with the robotic instrument is quick.

**Features:**

- 6 high precision copper coated 25.4 mm prisms housed in a precisely CNC machined aircraft grade aluminum housing
- Dual 5/8-11 mounting threads (female)
- 0 mm offset

65-360R	Robotics Prism
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*One free adapter is supplied with each unit. Special adapters available to match different brand total stations. Specify when ordering: Topcon, Spectra, Leica, Zeiss, etc.*

Brand	Prism Height	Order Number
Topcon	77mm	65-360R-GLD
Zeiss	100 mm	65-360R-BLU
Leica	86 mm	65-360R-BLA
Spectra Precision	135 mm	65-360R-RED



60-RT20ALW



Oversized Circular Head

New Heavy-Duty Thick Wall Aluminum Clamps

Removable Support Chains

NEW Heavy-Duty Locking Lever

Pass Through Bolt

60-RT20FG

Heavy-Duty Composite Shoes

60-RT20WDF



Prism Height 86mm

65-360R-BLA BLACK- LEICA

65-360R-RED RED-SPECTRA

Prism Height 135mm

65-360R-GLD GOLD-TOPCON

Prism Height 77mm

## GPS Accessories

Tough, rugged, reliable accessories for your GPS instruments

### Precise Collapsible Antenna Tripods

Features a two-meter fixed or adjustable height antenna pole. Quick-release tripod system allows fast and accurate set up.

#### Features:

- 360° rotation to check calibration for plumbing with a 10-minute vial
- Rotatable head with removable 5/8" x 11 adapter
- Built-in compass
- Powder painted quick-release tripod legs and pole
- Replaceable pole tips
- Weight: 15 lbs. (6.8kg)

- 
- 69-100 Precise GPS Antenna Tripod, adjustable 2m pole, fixed two-meter spot  
 69-100A Precise GPS Antenna Tripod, fixed 2m pole  
 69-101 Precise GPS Antenna Tripod, adjustable 2m pole  
 69-103 Nylon Cordura™ Antenna Tripod Carrying Case



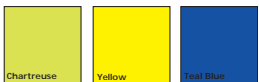
### 2 Meter Tripod with Antenna Pole

Features a two-meter adjustable height antenna pole. Quick-release tripod system allows fast and accurate set up. Choose heavy-duty aluminum or wood/fiberglass construction.

#### Features:

- 360° rotation to check calibration for plumbing with a 10-minute vial
- Rotatable head with removable 5/8" x 11 adapter
- Built-in compass on antenna pole
- Powder painted quick-release tripod legs and pole
- Replaceable tripod and pole tips
- Weight: 22 lbs. (10kg)

- 
- 69-WDF30GPS Wood/Fiberglass GPS Antenna Tripod  
 69-ALQR30GPS Aluminum GPS Antenna Tripod



NOTE: Please specify color when ordering. If no color is specified, yellow will be shipped.

### GPS Receiver Tripod

This heavy-duty tripod, made of hard maple legs with fiberglass dowels, make this unit the perfect combination of foundation and reach for your GPS/Radio Receiver needs. Usable for all Radio Modem Products for Robotic Total Station Applications.

#### Features:

- Tripod 72" (183 cm) open, 42" (107 cm) closed
- 2 section Quick-Lok™ pole
- Mast Height: 84" (213cm)
- Total Extension Height Open: 10'-5" (317cm)
- Total Extension Height Closed: 54" (137cm)
- Weight: 17 lbs. (7.8kg)

- 
- 69-WDF20MST GPS Receiver Tripod



69-WDF20MST



Tough, rugged, reliable accessories for your GPS instruments

### GPS 2m Receiver Pole

This "Quick-Lok" quick-release two-meter GPS Receiver pole is made from high strength aluminum and is electrostatically painted yellow and black.

69-106 Two-Meter Quick-Lok GPS Receiver Pole

### GPS Range Poles

1 1/4" (32mm) diameter pole section has 5/8" x 11 male threads on the bottom and 5/8" x 11 female threads on the top to add sections. Sturdy and durable aluminum pole is electrostatically powder painted black and yellow.

- 69-201 1m GPS Range Pole Section
- 69-202 50cm GPS Range Pole Section
- 69-203 25cm GPS Range Pole Section



### Pole Accessories

- 68-3740 Range Pole/GPS Pole Point
- 68-3742 Double-Ended 5/8" x 11 Adapter
- 69-204 10-Minute Vial with Holder; fits any 1 1/4" diameter pole. Recessed vial in a sturdy aluminum housing



69-204



68-3740



68-3742

### Mag Mount

Use to attach GPS antennas to the top of vehicles. Quick-release adapter allows easy removal of antenna.



69-102

- 69-102 GPS Mag Mount
- 69-102A GPS Mag Mount Adapter

### GPS Receivers Backpack

Lightweight and durable with good weight distribution. Great for extensive walking on rugged terrain. Backpack with antenna pole is available with Quick-Lok™ locking mechanisms. Dimensions: 18" h X 14" w X 23 3/4" d.



69-104

- 69-104 GPS Receiver Backpack with Frame
- 69-105 GPS Receiver Backpack with Quick-Lok™ Antenna Pole

*NOTE: Standard color for backpacks is yellow; special order colors are available: red-orange, blue, or chartreuse. Please specify when ordering.*

### GPS "Rover Rod"

Finally, the quality construction and workmanship you expect from CST is available in a GPS Rover Rod! CST is proud to introduce two new lightweight Rover Rods, available in either powder-painted aluminum or in a painted fiberglass composite material, for use in GPS applications. The Rover Rod comes in two sections for easy carrying and storage; they screw together to form a fixed height rod of 6-feet. Each rod includes a comfortable foam grip, 5/8" x 11 mounting thread, circular level vial, and replaceable hardened steel point. The new Rover Rods are available in your choice of teal blue, chartreuse, yellow, or black to match the color of GPS antennas from leading manufacturers.

- 69-107 GPS Rover Rod - Aluminum
- 69-107C GPS Rover Rod - Composite

### Prism Pole Bipods

Impact resistant materials, replaceable shoes with spurs, and quick release telescoping aluminum legs are standard features on these bipods. All bipods fit poles 7/8" to 1 1/2" (22mm to 38mm) in diameter. See page 9 for more details.

- 67-4260 Bipod, standard quick release
- 67-4260X Thumb Release Bipod



67-4260X



69-107