



# TOPCON<sup>®</sup> CALIFORNIA

*Machine Control, Laser & GPS Catalog*



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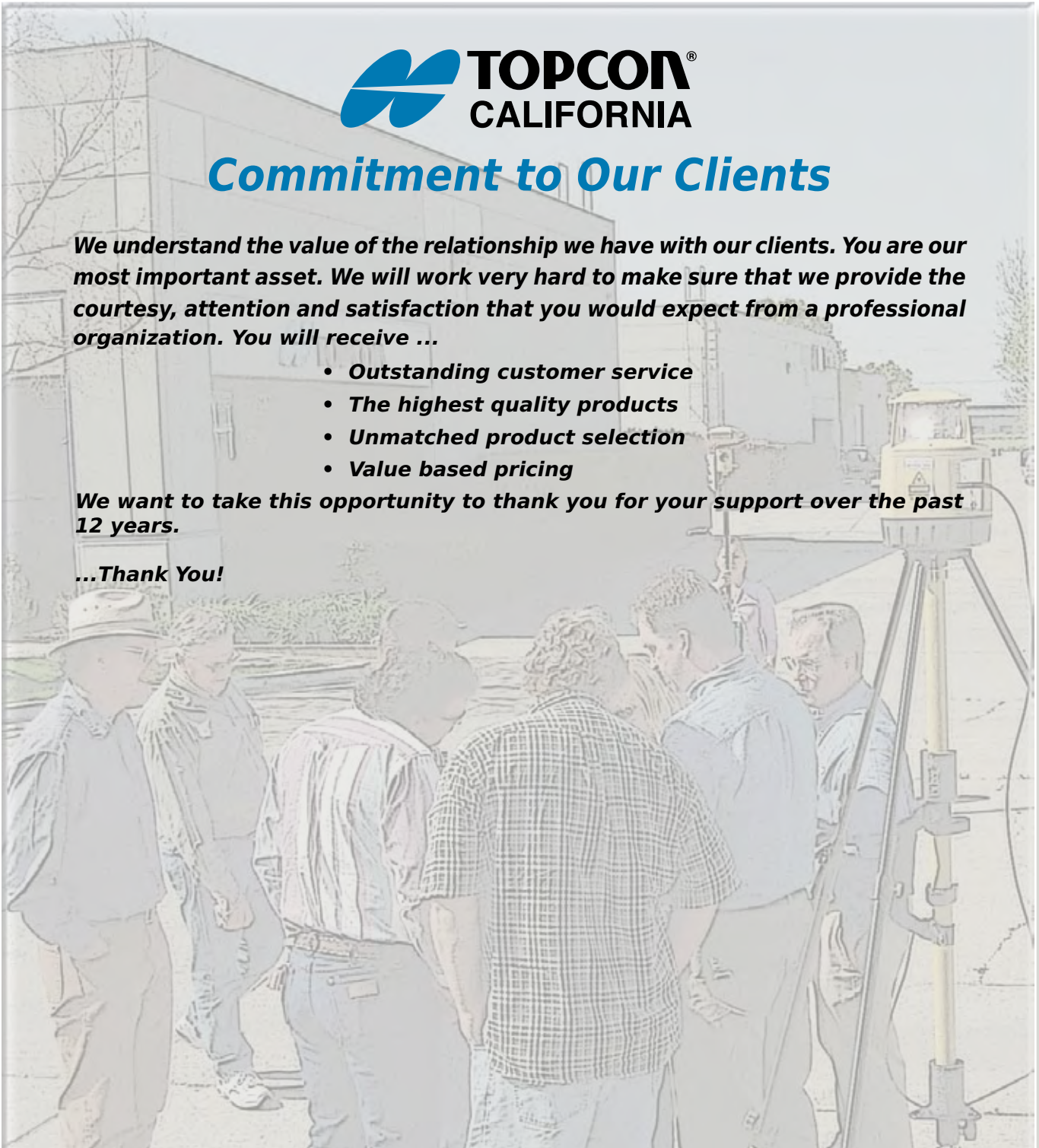
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- ***Outstanding customer service***
- ***The highest quality products***
- ***Unmatched product selection***
- ***Value based pricing***

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***...Thank You!***

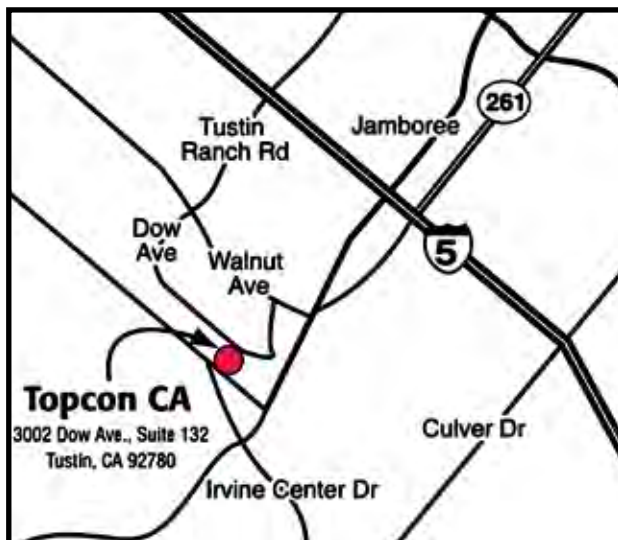


Topcon California, located at 3002 Dow Ave, Suite 132 in Tustin, California, has approximately 4,000 square feet dedicated to your equipment needs. Our staff is available to assist you at our facility or on your job site to provide our customers with courteous and knowledgeable customer service. We make every effort to ensure that your order is handled quickly and correctly.

Our hours are 7a.m. to 5p.m.  
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- Product Information
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- Technical Support



# TOPCON CALIFORNIA

## Tustin



## Machine Control, Laser and GPS

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# GB

## Modular GPS+ Receivers

The GB-500 and GB-1000 provide an advanced Topcon dual-frequency, dual-constellation, GPS+ receiver board design inside a rugged, compact housing.

Also, through the use of Options Authorization Files, a customer can select from a wide variety of options to activate in the receiver to meet their exact needs.

### GB-500 and GB-1000 Modular GPS+ Receivers

The GB-500 provides a simple MINTER display with LED's providing satellite tracking, battery, and recording status. Both receivers hold two removable Lithium-Ion handy-cam batteries that you can hot-swap for constant operation, or use optional external power. The GB-1000 offers a built-in LCD display and operation panel. This display and interface is ideal for checking satellite and receiver status, initializing RTK base operation, or managing static surveying operations. The GB-1000 also provides a Compact-Flash memory card slot and advanced communication support. Nearly all communication links are supported including LAN, WAN, and Internet connectivity with USB, serial, and Ethernet connections.

**01-854502-01X GB-500 Receiver, L1 w/cables**

**01-854402-01X Assy, GB-1000 w/cables**



Also available...

# Legacy – E

### Legacy-E – Modular GNSS Receiver

The more satellites you track, the faster and more accurate you work. The Legacy-E has GPS L1, GPS L2 and GLONASS capability – the power of 3! Combined with our 40 universal superchannels, Topcon has the world's only "all-in-view" receivers, tracking up to 20 GNSS satellites at once – the maximum available at any one time.

Our Co-Op Tracking process (patent pending) takes your survey to places it's never been before – under canopy, high-interference areas and low elevation angles – so you can...

- Quickly acquire and accurately track low-signal satellites
- Track in the presence of interfering signals
- Virtually eliminate cycle slips
- Re-acquire satellites almost instantaneously



# HiPer

## Integrated GPS Receiver

The HiPer® series of integrated GPS+ receivers/antennas offers GPS technology options for every need and budget.

Each member of the HiPer Series features an integrated design that includes a GPS receiver, antenna, and power supply – all in a compact, waterproof, durable housing that is designed to take the bumps and bruises of the field.

### HiPer® Lite+ GPS Receiver System

This compact system incorporates Topcon's advanced 40-channel dual-frequency GPS technology, the Paradigm™ chip, and offers all the Topcon innovations in tracking technology such as Co-Op Tracking and Advanced Multipath Reduction. The HiPer Lite+ also incorporates our Euro-80 GPS board and is designed for dual frequency GPS tracking.



- Super-fast and easy base station setup – tripod, tribrach, and HiPer Lite+ – you're done!
- Cable-free rover works with Bluetooth® wireless technology equipped field controllers
- Integrated spread spectrum radio works with HiPer Lite+ and standard HiPer Lite rovers up to 1.5 miles away
- No FCC licensing requirements
- 40-channel dual-frequency GPS plus GLONASS availability
- Exclusive AMR and Co-Op Tracking™ technology

### HiPer® + Integrated GPS+ Receiver System

HiPer®+ continues to offer the advantages of a small, lightweight design and the power of dual-constellation satellite tracking. In addition, the HiPer®+ boasts wireless communication and an advanced center-mount UHF antenna design that boosts RTK performance and distance with no degradation of GPS signals!



Now available with GSM modem option! The new HiPer®+ now can be ordered with either internal radio or with internal GSM cell phone communications. With GSM, just add a SIM card from a domestic service provider and TopSURV™GPS+ controller software to obtain rover connectivity with cell-based reference station networks and long-range RTK without radios.

The HiPer®+ features the option of dual-constellation (GPS plus Glonass) tracking, which provides 40% more satellite coverage than GPS alone! That means downtime due to poor satellite coverage or obstructions is virtually eliminated. Topcon brings dual frequency GPS+ positioning technology to its users.

### HiPer® XT RTK GPS+ Receiver

Topcon's new XT (eXtended Technology) system provides a user with two forms of RTK communication all inside one compact, lightweight housing. The HiPer®XT incorporates a 2-watt UHF radio (transmit and receive) and a cellular modem.



The Topcon HiPer®XT system gives you two systems in one. For areas outside reliable digital cellular coverage, use two HiPer®XT receivers as a base and rover system. When operating in a reliable cellular coverage or within an RTK network system, use both HiPer®XT receivers as rover units to double your productivity and efficiency!

- Completely cable-free base & rover or rover & rover RTK GPS System
- 2-watt UHF Transmit & Receive system with built-in cellular modem
- Dual constellation (GPS+GLONASS) satellite positioning technology
- 40-channel all-in-view signal tracking ability
- Industry leading 20Hz fast update rate
- Upgradeable receiver options via simple computer codes
- Free Channel Scan mode (TPS)

## Millimeter GPS™

**World's first millimeter-accurate GPS system - up to 300% more accurate than standard GPS!**

Combine LazerZone™ with GPS+ to achieve millimeter accuracy. LazerZone™ transmitter provides wide vertical measurement area - 600m/2,000 ft diameter, 10m/33 ft. height.

Simply set up your Topcon RTK GPS+ system as usual, add a wireless PZS-1 sensor to your mobile rover, and set up the PZL-1 transmitter to get instant millimeter accurate elevations anywhere in the LazerZone™!

### PZL-1 Transmitter

The Positioning Zone Laser transmitter sets up and operates much like a standard rotating laser but transmits a unique LazerZone™ signal to provide a working range of 3,000 ft. plus an incredible measuring area of 33 ft. in height! Link up to four laser transmitters for use on large sites to cover a distance of nearly 8,000 ft. with elevation changes of over 130 ft. Multiple rovers can use the same transmitter, even at different elevations for continuous production.



### PZS-1 Rover Sensor

Instantly computes precise vertical information from the PZL-1 laser transmitter. Automatically determines elevation based on your jobsite control - eliminating the need for a moveable mast or grade rod. Mount the PZS-1 to your range pole, where it receives the PLZ-1 laser signal and wirelessly transmits data to your existing HiPer rover.



### PZS-MC Machine Control Sensor

Mount the PZS-MC to your dozer or grader to replace your machine mounted GPS antenna and benefit from LazerZone™ technology. The PLZ-1 can operate multiple PZS-MC equipped machines, providing continuous, high-speed, high precision control throughout the job site. The smart LazerZone™ technology can distinguish between transmitters for hassle-free, precision grading.



#### 8080mm Millimeter GPS 3D Transmitter Kit

57099- PZL-1 Transmitter w/ case  
30-034121-01 – 2m Tripod w/ Bag

#### 8090mm PZS-1 Millimeter GPS 3D Rover Kit

9134-0000 – PZS-1 Positioning Survey Sensor  
30-034131-01 -01 – Kit, Laserzone Accessories w/ Bag  
22-034103-01 - .5m Composite Rod Extension

#### 8202 Millimeter GPS PZS-MC for Dozer

8304 Millimeter GPS PZS-MC for Single Motorgrader  
8305 Millimeter GPS PZS-MC for Single Motorgrader 14/16





## Controllers & Software



### FC-100

The FC-100 field controller incorporates the graphical Windows® CE operating system on a crisp, bright, color touch-screen display that makes your field data come alive. This powerful operating system, combined with the versatility of dual removable media for data storage and transfer; the easy-access, long-life, "camcorder" style rechargeable battery; and the compact design that is small on size, but not in performance, makes the FC-100 the perfect field controller for any job.



- Easy access Compact Flash AND SD Media card slots
- Powerful 400MHz Intel Xscale processor standard, 128Mb or 256Mb built-in ROM
- Windows® CE.NET graphical operating system
- Ultra-bright, TFT sunlight-active, color touch-screen display
- Wireless connectivity to new Topcon GPS & W-series total stations
- Compact size fits in the palm of your hands
- Rugged, shock absorbing, environment repelling housing
- Replaceable Li-Ion battery provides 30 hours continuous operation
- Separately sealed batteries makes swapping a snap

### Topcon Integrated Controller Software

**Topcon currently offers two software CDs for 3D controls:** one featuring TopSite™, and the other is with Office-3D™ and Pocket-3D™.

#### Pocket 3D™

Pocket-3D™ keeps you up to date on the progress of your project at all times. Pocket-3D is comprised of powerful software programs that run on a Windows CE® platform field controller like our Topcon FC-100. Pocket-3D simplifies contractors' data collection, allowing you to check cuts and fills, layout points and survey all or part of the jobsite better and more conveniently than ever.

#### Topsite™

TopSite™ is a CAD-based software program capable of designing an entire project or for 3D site simulation to check for design errors. It is used to create a DTM (Digital Terrain Model) of the jobsite when importing a file from different software packages.

TopSite™ will import files from most design software programs including Terramodel, AGTEK, Land Development, and Microstation. The program includes drivers for PC devices only. TopSite™ is not included in any kit, but licensing and installable files are available. It is sold as a 2 licensed copy.

#### Office-3D™

Office-3D™ allows you to create, edit, import/export, design and prepare files for any jobsite. You can then export your files to the System Five 3D Control Box and Pocket 3-D Controller for immediate field use.

# System Five



Topcon's System Five 3D Control Box offers the best of both worlds: a state-of-the-art system interface with Windows® based simplicity.

## System Five

The System Five 3D Box is the simplest control system your operator will ever use. The operator knows instantaneously how far the cutting edge is from the design grade, offset dialed in for rough grading or material sections, and the desired cross-slope. The extremely bright, color coded touch screen displays roads, parking lots, building pads and other helpful information so the operator knows where they are on the project at all times.

Need more detail when cutting curb grade or top and toe of slopes? The operator can simultaneously look at section or profiles views while grading the site. Select any linework on the screen and System Five 3D will provide steering information to make sure you grade right where you want.

Don't worry about making your existing machine control systems obsolete. System Five 3D is fully compatible with Topcon 2D systems installed over the last 15 years! When the time comes, upgrade quickly and easily in the field using a laptop computer and System Five 3D's USB port.

- Compatible with current 2D systems
- Control box and fully functional all-in-one PC
- Windows CE® based operating system
- Store multiple jobs on the hard drive
- Simple, easy-to-use software
- Operator-friendly, high-resolution touch-screen technology
- Large, high-visibility display
- Bright, multi-colored LED grade indication
- Easy-grip, detented grade adjustment knobs
- Compatible with 3D control and conventional 2D laser, sonic and cross-slope control applications
- No-slip mounting from either side of the display
- Full-face solid rubber bumper protects against damage in the field
- Field upgradeable with USB and Compact Flash technology



Above Grade      On Grade      Below Grade



- Simple, color-coded "sliding tape" cut/fill indication
- Adjust green on-grade size to match job tolerance
- Multiple job views— plan, profile, cross sections & more

# Machine Rovers



## System 5 3D Control Box

The System 5 3D Control Box is a user-friendly graphical interface that works with Topcon's 3D-GPS+ satellite directed machine control system to give the operator unprecedented automatic control for both slope and elevation, with multiple monitoring options. The backward-compatible, digital control box also operates laser, sonic, and slope control for a true "Plug-n-Play" system. The Windows CE® operating system, provides the operator capability of downloading job site plans from a CompactFlash memory card and displays data on a large, color, touch screen to ensure maximum productivity and superior ease of operation.



The new panel incorporates an auto-sensing device that reads ambient lighting conditions, from the brightest to the lowest, and then automatically adjusts the screen display to maintain optimum clarity and readability. Additional features include a USB port for connecting laptops; for programming, a solid-state hard drive and rugged housing.

## MC-A1 - Antenna - High Precision GPS+ Antenna

The MC-A1 is a precision dual-frequency, dual constellation antenna featuring precision micro center technology and an integrated ground plane to help eliminate errors caused by multipath. The MC-A1 was designed as part of the Topcon single antenna machine rover system.



## MC-A2 - High Precision GPS+ Antenna

Another World's First innovation from Topcon, the MC-A2 is the first dual antenna to provide both dual-frequency and dual-constellation satellite tracking. The MC-A2 with precision micro-center technology and integrated ground plane help to eliminate multipath errors. The MC-A2 maintains the correct elevation even when the blade is tilted. This system also provides for immediate heading corrections.



## Mag Box - Dual GPS Receiver Box

The Mag Box packages the power of Topcon's GPS+ receiver in a robust unit especially designed for machine control applications. It features the most advanced GLONASS and GPS dual frequency RTK satellite tracking system, Advance Multipath Reduction (AMR), Inband Interference Rejection (IBIR) option, color LED indicators for satellite tracking and radio status and a heavy duty construction design with high power magnetic shock absorbing mounts.



## GPS Vib Poles



**9090-1420 GPS Vib Pole 1 3/4" diameter**  
**9090-1420 GPS Vib Pole – staged**



# Motor-graders

Whether working on flat or sloped pads, roads, or airports, System Five gives you the tightest material control for reduced grade costs and improved productivity.

## System 5 – Control Box

Operators don't want a system that's hard to learn or a hassle to use. That's why Topcon's System Five features a control box with an easy-to-use icon-based interface for superior machine control with less effort. The large graphic LCD screen is so simple to train that even novice operators can work like experts. Push-button control and on-screen help also add to the simplicity of its operation. You can even program up to three memory settings for fast setup. And, best of all, System Five's control box is laptop programmable so you can update or revise the software in the field.



System Five also features a host of innovative Topcon technologies to help your production rates soar. It puts operation at your fingertips with remote "Smart" Switches for convenient multi-function control. Its level vial provides a better response than ever. High resolution Sonic Tracker II™ provides accurate tracking from virtually any reference. Even the hydraulic valve is improved with a high flow rate that allows fast, precise response to even the smallest grade corrections.

## Tracker Jack

Topcon's 9130 Laser Receiver with Tracker Jack gives your grader laser accuracy. Its highly visible display lamps point the way to grade whether you're low, high, or on-grade. It provides five feet of elevation travel and automatically locates the beam at setup or when transmission is interrupted.



## Slope Sensor

**The durable 100% capable slope sensor is 5 times more slope capable than the competition:**

- Level vial reduces "slosh" for faster, more accurate response.
- Cast housing with weather-protected connectors.
- Sealed inside and out to protect against moisture and contaminants.



### How the Slope Sensor Works:

- 1) +2% slope... a positive signal is generated.
- 2) 0% slope... no signal is generated.
- 3) -2% slope... a negative signal is generated.



## Sonic Tracker II™

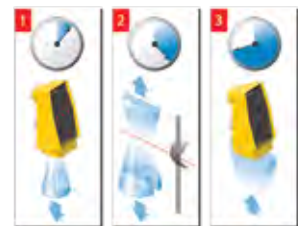
The Sonic Tracker II™ is Topcon's patented second generation Sonic Tracker™. Featuring two types of temperature compensation. By using the temperature sensor on the back of the unit, as well as the temperature bail, the unit compensates for atmospheric disturbance that may affect performance. Add smart controller features, such as Averaging and Temperature Cutout, and you have the most stable and accurate grade sensor available in the construction industry.



### How the Sonic Tracker II™ works:

- 1) The Sonic Tracker II™ sends out a pulse of sound and starts a timer.
- 2) The sound pulse travels down and strikes the reference sending back an echo.
- 3) The echo strikes the transducer and the Sonic Tracker II™ stops the timer.

Measuring the time it took for the echo to return, the system knows the distance it resides above the reference.



# Dozers

## System 5 – Control Box

Topcon's Board and Blade control systems make pad work and all slope board jobs faster and easier. No waiting for a grade check. No guessing at slopes.



The Slope Board system uses the System 5 Control Box integrated with a wide-range slope sensor to give the operator precise control. He simply dials in the desired slope and monitors the control box to cut precise slopes faster than ever. No laser transmitter necessary.

By adding a laser transmitter and receiver you'll make your machine a pad-making maniac! The laser controls the blade, the slope sensor controls the board.

## Tracker Jack

Topcon's 9130 Laser Receiver with Tracker Jack gives your grader laser accuracy. Its highly visible display lamps point the way to grade whether you're low, high, or on-grade. It provides five feet of elevation travel and automatically locates the beam at setup or when transmission is interrupted.



## LS-B2 Laser Sensor

The easy-to-use LS-B2 is designed to boost machine production so your business always maintains a leading edge over the competition. It features four selectable on-grade bandwidths – from rough grade to super fine grade – to suit your job.



The versatile LS-B2 works easily with any machine so you only need one receiver for any job. Using a laser as it's reference, the LS-B2 visually provides the machine operator the grade information needed for continuous work, freeing the grade checker to work elsewhere.

- 56933** LS-B2A Pkg. - complete pkg. w/ RD-2 & IR-1
- 56932** LS-B2B Pkg. - includes RD-2
- 56931** LS-B2C Pkg. - basic unit w/Ni-Cad Battery Kit
- 56930** LS-B2D Pkg. - powered using PC-18 cord. battery not included

## Slope Sensor

**The durable 100% capable slope sensor is 5 times more slope capable than the competition:**

- Level vial reduces "slosh" for faster, more accurate response.
- Cast housing with weather-protected connectors.
- Sealed inside and out to protect against moisture and contaminants.



### How the Slope Sensor Works:

- 1) +2% slope...  
a positive signal is generated.
- 2) 0% slope...  
no signal is generated.
- 3) -2% slope...  
a negative signal is generated.



# Paver Control

If you're already using System Five Sonic Control, SmoothTrac is a simple add-on. Operation is through the same System Five Control Box.

## System 5 and SmoothTrac®

Using a ski doesn't have to be a drag anymore. With Topcon's SmoothTrac® sonic averaging system, you can get the job done faster, at lower costs, with better rideability – without the headaches of a mechanical ski. Three easy-to-assemble sections are lightweight and fold out of the way right on the paver. SmoothTrac™ production is continuous, no matter how often the road curves. You can even back-up for the next pass!



SmoothTrac® works with Topcon's innovative Paver System Five automatic control system to improve mat smoothness in record time. Up to four Sonic Tracker II™s mount onto the non-contacting ski and provide grade information to the operator. No more stopping to clean or reposition skis because SmoothTrac® mounts on the side of the paver and works above the surface.

## Sonic Tracker II™

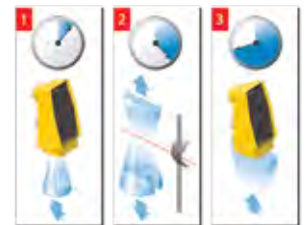
The Sonic Tracker II™ is Topcon's patented second generation Sonic Tracker™. Featuring two types of temperature compensation. By using the temperature sensor on the back of the unit, as well as the temperature bail, the unit compensates for atmospheric disturbance that may affect performance. Add smart controller features, such as Averaging and Temperature Cutout, and you have the most stable and accurate grade sensor available in the construction industry.



### How the Sonic Tracker II™ works:

- 1) The Sonic Tracker II™ sends out a pulse of sound and starts a timer.
- 2) The sound pulse travels down and strikes the reference sending back an echo.
- 3) The echo strikes the transducer and the Sonic Tracker II™ stops the timer.

Measuring the time it took for the echo to return, the system knows the distance it resides above the reference.



## Sonic Feed Sensor™

Topcon's Sonic Feed Sensor™ is the first to feature a field-replaceable transducer. The harsh environment of paving operations is tough on sensors. Topcon has eliminated the need for replacing an entire damaged sensor, reducing down-time and lowering equipment costs. It replaces out-of-date paddle sensors or other brands of sonic feed sensors.



This small, versatile unit offers an 11" to 33" operating range. Pile height can be adjusted on the unit or from a remote control. Topcon's new Sonic Feeder Sensor mounts quickly to existing brackets, eliminating time-consuming modifications. The unit also includes a built-in diagnostic function to keep your paver running smoothly.



# Laser Receivers



## LS-B10 Laser Sensor

Introducing the LS-B10 series, Topcon's newest integrated laser receiver and display that can be used for a wide variety of machine and elevation control tasks.

The basic LS-B10 model features a powerful magnet mount that permits quick placement on a grade rod or a machine. The advanced LS-B10W offers built-in wireless technology and CAN open-connectivity to provide the ultimate in communication flexibility, and is fully compatible with Topcon's 3Dxi Excavator System and System Four and Five automatic machine control components. Add the new RD-10W in-cab remote display to bring grade information via wireless link right in front of the operator - where it is needed most.



## LS-B2 Laser Sensor

The easy-to-use LS-B2 is designed to boost machine production so your business always maintains a leading edge over the competition. It features four selectable on-grade bandwidths - from rough to super-fine grade - to suit your job.

The versatile LS-B2 works easily with any machine so you only need one receiver for any job. Using a laser as its reference, the LS-B2 visually provides the machine operator the grade information needed for continuous work, freeing the grade checker to work elsewhere.



- 56933**                    **LS-B2A Pkg. - complete pkg. w/ RD-2 & IR-1**
- 56932**                    **LS-B2B Pkg. - includes RD-2**
- 56931**                    **LS-B2C Pkg. - basic unit w/Ni-Cad Battery Kit**
- 56930**                    **LS-B2D Pkg. - powered using PC-18 cord. battery not included**

## LS-B3 Laser Sensor

Once it's setup, the LS-B3's advanced technology lets you work faster and more accurately than ever. You get complete visual grade control with up to 9 channels of information and 3 on-grade positions to choose from. No matter which side of the stick it's on, the operator can tell with one glance to the LS-B3 exactly how much grade needs to be cut. Because the LS-B3 makes accurate grade control a one-person job, the grade checker is free to work elsewhere, reducing labor costs.

- 57012**                    **LS-B3 Pkg. - Magnetic Mounting uses Alkaline Batteries**



## LS-B4 Laser Sensor

The LS-B4 provides a 360° laser reception for all types of machine control applications. It can be used as a stand-alone manual indicate system or with any of Topcon's highly productive, automatic machine control systems. Four selectable on-grade bandwidth settings of the LS-B4 run from rough grade to super-fine grade to suit specific jobsite needs.

- 57057**                    **LS-B4A Pkg., includes Rechargeable Battery, Charger and battery door**
- 57058**                    **LS-B4B Pkg., includes Battery Door uses Alkaline Batteries**
- 57059**                    **LS-B4C Pkg. receiver only**



## Tracker Jack

Topcon's 9130 Laser Receiver with Tracker Jack gives your grader laser accuracy. Its highly visible display lamps point the way to grade whether you're low, high, or on-grade. It provides five feet of elevation travel and automatically locates the beam at setup or when transmission is interrupted.



# Slope Lasers

No thumb screws or delicate pendulums. Just fast, accurate, electronic self-leveling. Push the power button, set your slope, and go to work.

Eliminating grade errors eliminates rework. Experience the world's most accurate grade repeatability at 5 arc seconds.

## RL-H1Sa Slope Laser

State-of-the-art electronic encoder leveling and grade setting system ensures 10 arc-second accuracy over the entire site. Even on difficult grading jobs like terraced pads and hillsides, the RL-H1Sa provides a precise elevation reference. The RL-H1Sa's beam is compatible with all laser receivers and grade rod sensors so you can put it to work with the tools you already have.



**Auto-Leveling range:**  $\pm 5^\circ$   
**Operating Range:** 1150' (350m) radius  
**Beam detection range:** 2m - 700m diameter (6' - 2300')  
**Laser source:** 780nm Infrared laser diode  
**Laser class:** Class 1 Laser product  
**Rotation speeds:** Selectable: 300, 600 rpm  
**Grade-setting range:** -5% to +10%

## RL-H2Sa Slope Laser

The RL-H2Sa features a precision electronic encoder that virtually eliminates grade errors and ensures 10 arcsecond accuracy over the entire grade range. Its precision leveling and grade setting system lets you adjust grade in 0.001% increments. Convenient push-button control and power management options contribute to the RL-H2Sa's simplicity. And, its compact, portable design makes it easy to set up.



**Auto-Leveling range:**  $\pm 5^\circ$   
**Operating Range:** 1150' (350m) radius  
**Beam detecting range:** 2m - 700m diameter (6'-2300')  
**Laser source:** 685nm Visible laser diode  
**Laser class:** Class 3A Laser product  
**Rotation speeds:** Selectable: 300, 600, 900 rpm  
**Grade setting range:** -8% to +8% (Single-Axis)

## RT-5SW Steep Slope Laser

A new long-range, dual-slope laser in the RT-5S series. The RT-5SW provides all of the primary features of the RT-5S series including five-arc-second accuracy – less than 1/32<sup>nd</sup> of an inch per 100 feet.

In addition to its SmartLine automatic guide alignment system, the new laser includes an automatic grade-matching feature. Both make setting up the laser faster and more accurate. The RT-5SW features remote control operation at distances up to 1,000 feet. Radio communication between the remote and the base laser allows the operator to verify adjustments right from the cab of a machine.



This new addition to Topcon's line of rotating lasers is primarily designed for controlling earthmoving equipment on large-scale construction and agricultural land-leveling projects.

- **$\pm 5$  arc second accuracy**
- **2,000 ft. radius**



# General Lasers

Stop chasing bubbles and get to work. It's automatic. Just push the Power button on the RL-H3C for flat work, or use the slope buttons on the RL-H3CS for fast, accurate slope matching.

## RL-H3C

The RL-H3C is one of Topcon's absolute best values. With a host of world-leading features at an unbeatable price, it's the perfect general construction laser for any contractor's needs.

### RL-H3C features include:

- Fully automatic self-leveling
- Height of instrument alert (HI alert)
- Long 500 ft. operating radius
- Machine control compatible
- 15 arc-second accuracy
- 650nm visible red beam
- Universal rod clamp for LS series sensor



## RL-H3A

You can rely on the RL-H3A's self-leveling to provide stable and accurate grade. There are no delicate wires or bearings to worry about. That's because Topcon combined the world's fastest leveling system with their patented Liquid Compensation.

### RL-H3A features include:

- LS-70 SmartSensor™
- High-speed self-leveling
- Universal machine control compatibility
- Rechargeable Battery
- Range 1,150 ft. radius



## RL-H3CL

Another new addition to Topcon's very popular and very affordable automatic laser line, the RL-H3CL brings the productivity of long-range laser control down in price and up in performance.

### RL-H3CL features include:

- Fully automatic self-leveling
- Height of instrument alert (HI alert)
- Long 820 ft. (250m) operating radius
- Machine control compatible
- 10 arc second accuracy
- 650nm visible red beam
- Universal rod clamp for LS series sensor



## RL-H3CS

The RL-H3CS is ideal for any contractor who occasionally needs a controlled slope for his work. Rather than having to manually calculate slope based on a level control, the RL-H3CS beam plane can be tilted parallel to the slope. Electronic touch-pads let the user precisely slope the beam (up to five feet per 100 feet of distance) while maintaining the security of cross-axis self-leveling.

### RL-H3CS features include:

- Simple, intuitive manual slope-match capability with automatic cross-axis self-leveling
- Fast, automatic self-leveling
- Up to 60 hours of production from four "C" batteries
- Automatic height of instrument alert (HI alert)
- Optimally focused beam provides 500 ft. operating radius
- Machine control compatible
- 15 arc second accuracy
- 650nm visible red beam
- Universal rod clamp for LS series sensor



RL-Series packages come complete with LS-70C Laser Sensor, batteries, and hard carrying case.



# Pipe Lasers

The TP-L4 series features SmartLine® for fast, simple alignment. Just set the target at the far end of the last section of pipe and push the alignment button on the RC-200 remote. The beam automatically centers on the target for perfect alignment every time. You can also use SmartLine™ for quick above ground setups!

## TP-L4GV Pipe Laser

### Features include:

- GreenBeam® technology
- SmartLine® for fast, simple alignment.
- Automatic line centering and grade zeroing.
- World's only 3-way beam.
- Bright, easy-to-read rear display.
- World's best long-range spot quality.
- RC-200 radio remote for complete control from up to 660 feet away.
- All metal, waterproof housing.



## TP-L4G Pipe Laser

### Features include:

- GreenBeam® technology
- SmartLine® for fast, simple alignment.
- Automatic line centering and grade zeroing.
- Industry's brightest LED line pivot locator.
- Bright, easy-to-read rear display.
- World's Best long-range spot quality.
- RC-200 radio remote for complete control from up to 660 feet away.
- All metal, waterproof housing.



## TP-L4BG Pipe Laser

Topcon's TP-L4BG offers you the industry's only Green Beam® technology at prices lower than other red beam lasers.

### Features include:

- GreenBeam® technology
- Automatic line centering and grade zeroing.
- RC-200 radio remote for complete control from up to 660 feet away.
- Industry's brightest LED line pivot locator.
- Bright, easy-to-read rear display.
- All metal, waterproof housing.



## TP-L4B Pipe Laser

Topcon's TP-L4B is the perfect entry-level utility laser for those in search of high accuracy and great features at an economical price. Like the TP-L4BG, the TP-L4B provides automatic line-centering and grade zeroing, along with the incredible accuracy you expect in a Topcon pipe laser, all with a brilliant, perfectly round red beam.

### Features include:

- Automatic line centering and grade zeroing.
- Bright, easy-to-read rear display.
- World's Best long-range spot quality.
- RC-200 radio remote for complete control up to 660 feet away.
- All metal, waterproof housing.



## TP-L4AV Pipe Laser

The TP-L4AV is our top-of-the-line red beam laser offering all of the advantages of the other red beam models but with the addition of laser plumbing. This feature simplifies and speeds up the most accurate setups. The TP-L4AV is an excellent red beam pipe laser.



# Interior Lasers

Featuring Topcon's exclusive ultra-visible GreenBeam® technology in the high-end RL-VH3G models. It quadruples the beam brightness so you never lose the beam, even in direct sunlight, and no more hunting for it on your target. With an array of "Smart" features, improved battery life, excellent spot quality, and a full-function optional remote, the RL-VH3 is the only choice! The RL-VH3 Series Lasers come in a wide variety of configurations to suit almost any budget.

## RL-VH3D and RL-VH3DR Interior Lasers

The **RL-VH3D** is built with integrated adjustable feet for vertical applications. For fast setup of wall track, and easy verification of vertical stud placement, the beam creates a laser "chalkline" from floor to ceiling with the use of a simple scan target. Use the 90° split beam to ensure precise placement of corners and tees.



The **RL-VH3DR** Hi-Power model includes all the features of the VH3D model, plus a remote control sensor for the addition of a hand-held remote to facilitate added convenience, and has a high power laser diode for added visibility at greater distances.

### Features include:

- Smart-Scan™ beam scanning
- Fully automatic self-leveling
- Horizontal/Vertical Split Beams
- NiMH battery pack with up to 40% more power
- Compact and lightweight with integrated handle
- Optional remote control

## RL-VH3G Interior Laser

Topcon's feature-packed RL-VH3G provides more advanced technologies than any other laser on the market. And that translates into increased productivity and profitability on all of your interior jobs.



### Features include:

- GreenBeam® for extra visibility
- SmartScan™ beam capture functionality
- SmartLine™ "virtual chalkline" feature
- SmartPlumb™ for effortless next day re-alignment
- SmartSlope™ sets slopes easily and automatically
- SmartFocus™ adjusts beam brightness to maintain clarity at any distance
- NiMH battery pack with up to 40% more power
- Optional RC300 Remote Control capable

## RL-VH3A and RL-VH3B Interior Lasers

### Features include:

- SmartScan™ beam capture functionality
- SmartLine™ "virtual chalkline" feature
- SmartPlumb™ for effortless next day re-alignment
- SmartSlope™ sets slopes easily and automatically
- SmartFocus™ (RL-VH3A only) adjusts beam brightness to maintain clarity at any distance
- NiMH battery pack with up to 40% more power
- Advanced optics red beam diode to produce a clear, perfectly round spot.
- Optional RC300 Remote Control capable



# Laser Instrument Accessories



57085



56994



56997



59071



56998



57028



B1



5079-038

## Laser Receivers & Holders

### Sensors

- 57085 LS-70C with Holder 6
- 56994 LS-70B, front and rear display
- 56997 LS-70A, front and rear display with connector for RD-10 remote display

### Holders

- 57074 Holder 6
- 56998 Holder 5, Quick Release Style
- 5079-038 Seco bracket for DE rod
- B1-LS70 Laser Line bracket with cut-out
- B1 Laser Line bracket without cut-out

## Interior Laser Accessories

- 57028 Wall Mount for RL-VH3A//G
- 57027 Floor Mount for RL-VH3A/B/G
- 57020 Wall Mount for RL-VH3B/D
- 57030 Floor Mount for RL-VH3B
- 56906 Magnetic Ceiling Target for RL-VH3A/B
- 56907 Alignment Target for RL-VH3A/B
- 56981 Magnetic Ceiling Target (Blue) for RL-VH3G
- 56982 Alignment Target (Blue) for RL-VH3G
- 56118 Small Bullseye Scanning Target
- 56155 Large Bullseye Scanning Target
- 56158 Magnetic Ceiling Target
- 57024 RC-30 Remote Control for RL-VH3A/B/G

# Batteries & Chargers



57051



56999



57026



57003



57003

## Batteries, Battery Holders and Chargers

### RL-H3A & RL-H3B

- 57026 BT-49Q Rechargeable Battery for RL-H3A, RL-H3B
- 57083 DB-57 Battery Door for RL-H3A/3B
- 57084 DB-57 Alkaline Dry Battery Holder for RL-H3B

### RL-H1SA & RL-H2SA

- 57045 DB-51C Ni-Mh Battery Holder
- 57047 BT-51Q Rechargeable Battery for RL-H2SA, RL-H1SA
- 3060-0110 12VDC 20' Cable with clips

### RT-5SA & RT-5SB

- 57000 BT-45Q Ni-Cad Pack for RT-5SA, RT-5SB
- 57003 DB-46C Rechargeable Battery Door
- 57004 Alkaline Battery Door for RT-5SA, RT-5SB

### TP-L4

- 56941 BT-30Q Ni-Cad Charger Adapter
- 57042 BT-53QA Rechargeable Battery Pack
- 57051 BT-53Q Ni-MH Battery Pack
- 57052 DB-53 Dry Alkaline Battery Holder

### RT-10S

- 50055 External Power Cable
- 50097 12VDC Power Cable

### RL-VH3, A, B, C, G

- 57025 DB-49C Rechargeable Battery Door
- 57026 BT-49Q Rechargeable Battery
- 57021 DB-49 Alkaline Battery Holder for RL-VH3A/B/G
- 57082 DB-58 Alkaline Battery Holder for RL-VH3D

## Battery Chargers

- 56999 AD-9B Adapter/Charger for RL-H3A, RL-H1SA, RL-H2SA, RT-5SA, RT5SB, TP-L4B, TP-L4G, TP-L4BG, TP-L4AV, TP-L4GV

# Auto-Levels

Topcon offers a wide range of automatic levels, in its AT-G series, for the land surveyor, civil engineer, and contractor.

The innovative DT-200 Series are the world's first waterproof and dustproof digital transits.

## AT-G Series

All AT-G series levels feature a magnetically-dampened compensator hung by four special Mylar ribbons having superior resistance to cold, heat, and shock. The AT-G1 model features a 360° glass horizontal circle using a 25x magnification microscope to read the circle, while the AT-G2 thru AT-24A have a standard 360° horizontal circle. All models are waterproof with nitrogen gas-sealed telescopes to prevent clouding and moisture on the lens (exception: AT-24A).



	AT-G2/G2A	AT-G3	AT-G4	AT-G6	AT-G7	AT-24A
<b>Telescope:</b>						
Length(mm/in.)	229/9	230/9	192/7.7	193/7.7	204/8	
Image Erect	Erect	Erect	Erect	Erect	Erect	Erect
Magnification	32x	30x	26x	24x	22x	24x
Objective Lens(mm/in.)	45.1.8	40/1.6	30/1.2	30/1.2	30/1.2	36/1.4
Relative Brightness	1.98	1.78	1.33	1.56	1.86	
Field Of View	1° 20'	1° 30'	1° 30'	1° 30'	1° 30'	
Resolving Power	2.5"	3.0"	3.5"	4.0"	4.0"	
Minimum Focus(m/ft.)	1.0/3.3	0.5/1.6	0.5/1.6	0.5/1.6	0.9/2.9	0.8/2.6
Stadia Constant	0	0	0	0	0.1	0
Stadia Ratio	100	100	100	100	100	100
<b>Automating Leveling:</b>						
Setting Accuracy	± 0.3"	± 0.3"	± 0.3"	± 0.3"	± 0.5"	± 0.5"
Compensating Range	± 15'	± 15'	± 15'	± 15'	± 10'	± 15'
<b>Accuracy</b>						
<b>1km Double Run Level:</b>						
Without Optical Micrometer (mm)	± 0.7	± 1.5	± 2.0	± 2.0	± 2.5	± 2.0
With Optical ± 0.4 Micrometer (mm)	± 1.0	-	-	-	-	
<b>Horizontal Circle:</b>						
Diameter (mm/in.)	90/3.5	117/4.6	117/4.6	117/4.6	102/4.0	
Minimum Division	1°(0.1g)	1°(0.1g)	1°(0.1g)	1°(0.1g)	1°(0.1g)	

## DT -200 High-Performance Digital Transit

The DT-200 series integrates the same high-quality advanced circle reading technology found in Topcon's high-performance total stations for more accurate field calculations; and delivers the high quality optics and electronics you expect to find in Topcon theodolites.



Available in three affordable models with 5", 7", or 9" angle accuracy. The DT-200 series weathers any wet or dust conditions in the field, allowing for a more productive day during inclement weather. All models are also compact and lightweight for easy portability and their simple operation provides precise measurement in a functional, hassle-free package.

## DT -200L-Performance Digital Transit

The new DT-200L series feature the same high-quality advanced absolute circle reading technology found in Topcon's high-performance total station products, and they continue to deliver the highest quality optics and electronics you expect to find in Topcon theodolites. Plus the addition of a laser diode that's perfect for easy, one-person alignment jobs.

Available in three affordable models delivering 5", 7", or 9" angle accuracy, there is a DT-200L theodolite perfect for any job. Waterproof and dustproof construction stands up to the toughest conditions so you don't have to worry about downtime due to inclement weather.

# Total Stations



## GTS - 230W Series Wireless Total Station

The world's first electronic total station with cable-free wireless operation. Utilizing Bluetooth® technology, a cable is NOT required when using an external data collector. There are 4 different models in this series based on the desired angle accuracy: 3", 5", 6" & 9".

The GTS-230W Series is the basic work-horse of our low tech total station product line. This series is packed with performance and incorporates advanced features utilized in our more costly total stations such as wireless capabilities and on-board data collection with enough memory for up to 8,000 points.

The GTS-230W Series also features a very high level of water and dust protection (rating of IP66) and is ready to endure the harshest field conditions. Coupled with features such as 30X telescope magnification, distance measuring capability at up to 10,000 feet, dual axis compensation and batteries that will provide 10 hours of continuous distance measuring time, this instrument is perfect choice for your everyday angle and distance measuring.



- 60193 GTS-233W 3" Total Station**
- 60194 GTS-235W 5" Total Station**
- 60195 GTS-236W 6" Total Station**
- 60196 GTS-239W 9" Total Station**

## GPT-3000W & LW Series Total Stations

The GPT-3000W & LW Series are built on the same frame as the GTS-230W Series and provides the same basic features such as dust and water protection, 30X telescope, dual axis compensation and wireless operation with Bluetooth® technology and on-board data collection. But the GPT-3000W & LW Series adds **REFLECTORLESS** capability to further enhance the functionality of the system. **WITHOUT** using a prism you can expect to measure up to 820 feet with the basic model and up to 3,900 feet with the long range (LW) models. The added advantage of reflectorless capability makes this series extremely attractive to have on all types of projects.



- 60308 GPT-3002W 2" Reflectorless Total Station**
- 60309 GPT-3003W 3" Reflectorless Total Station**
- 60310 GPT-3005W 5" Reflectorless Total Station**
- 60311 GPT-3007W 7" Reflectorless Total Station**

- 60343 GPT-3002LW 2" Reflectorless Total Station**
- 60344 GPT-3003LW 3" Reflectorless Total Station**
- 60345 GPT-3005LW 5" Reflectorless Total Station**

# Tripods



59010



59073



57032



5302-10



59110



5321-15-BLK



605811



8150-00



5610-00



2115-00

## Topcon

### Wood

- 59010 TP-10 tripod, ext. height 68"
- 59012 TP-10D, Dome Head, ext. height 68"
- 59005 TP-05 tripod, extended height 70"
- 59073 TP-73 tripod, PVC coated, height 69"

### Aluminum

- 57032 TP-100 tripod
- 59101 TP-100D dome head tripod
- 59070 TP-70 tripod (w/built-in vial)
- 59071 TP-71 tripod
- 59072 TP-71D dome head tripod
- 59110 TP-110 heavy duty tripod w/interlocking legs

## Seco

### Wood/Fiberglass

- 5302-10 Wide frame wood/fiberglass w/quick release
- 5321-15-BLK Aluminum elevator tripod

## Tiffens

- 605811 Aluminum MC tripod

## Tripod Accessories

- 8150-00 Tripod bag
- 5610-00 Tripod floor brace

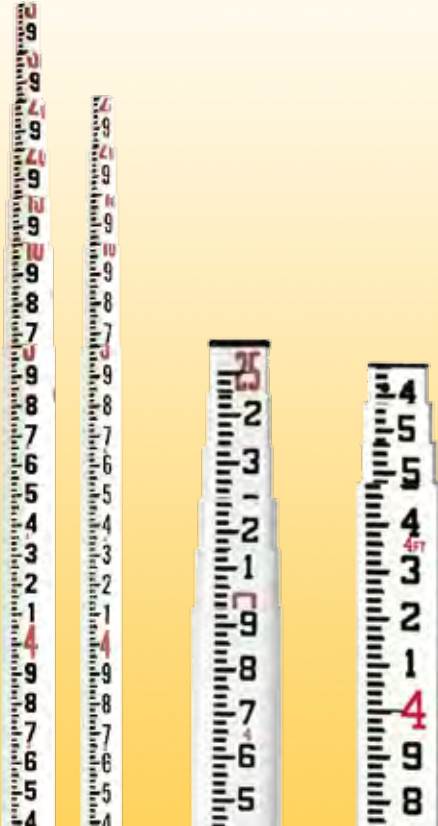
## Tripod Adapters

- 2120 Tripod adapter, 3 1/2" x 8 to 5/8" x 11
- 2130 Tripod adapter, 5/8" x 11 to 3 1/2" x 8

Tripod Features					
Model	Locking	Alum	Wood	Ext.Ht.	Wt.
59010	Wing Nut		X	68"	18 lbs.
59012	Wing Nut		X	68"	18 lbs.
59005	Quick Release		X	70"	17 lbs.
59073	Quick Release		X	69"	12 lbs.
TP-70	Quick Release	X		69"	8 lbs.
TP-71	Quick Release	X		69"	8 lbs.
TP-100	Quick Release	X		64"	9 lbs.
TP-110	Quick Release	X		63"	10 lbs.
5302-10	Quick Release		X	71"	16 lbs.
605811	Wing Nut	X		162"	29lbs.
90551	Quick Release		X	70"	18 lbs.
667-301	Wing Nut		X	69"	14 lbs.



# Fiberglass Rods



Round Rods    Oval Rods    CR Rods



91258



91108



91128

## Oval Fiberglass Rods, 10th / 100ths

90340	25' SVR Fiberglass rod, 10ths w/H.I.
90343	16' SVR Fiberglass rod, 10ths w/H.I.

## Oval Fiberglass Rods, Metric

90387	7.6M SVR Fiberglass rod, Philly Style
90372	7.6M SVR Fiberglass rod, .5cm Style
90385	7.6M SVR Fiberglass rod, "E" Style
90346	7.6M SVR Metric & 10ths
90345	5.0M SVR Fiberglass rod, Philly Style
90370	5.0M SVR Fiberglass rod, .5cm Style
90386	5.0M SVR Fiberglass rod, "E" Style

## Oval Fiberglass Rods, Inches

90341	25' SVR Fiberglass rod, 1/8ths w/H.I.
90344	16' SVR Fiberglass rod, 1/8ths w/H.I.

## CR Fiberglass

92041	16' Square rod, 10ths
92042	16' Square rod, 1/8ths
92043	5 Meter Square rod, metric
92021	13' Square rod, 10ths
92022	13' Square rod, 1/8ths
92001	8' Square rod, 10ths
92002	8' Square rod, 1/8ths
92003	2.4 Meter square rod, metric

## Round Fiberglass Rods

90004	LR-Std, 25' 10ths
90009	LR-Std, 25' 1/8th
90014	LR-Std, 7.5 metric
90022	LR-PRO, 25' 10ths
90024	LR-PRO, 35' 10ths
90026	LR-PRO, 45 10ths

## Accessories for Fiberglass Rods

91258	5/8" x 11 Prism mounting adapter kit for SVR Rods
91412	SVR carrying case for 25' Rod
91411	SVR carrying case for 16' & 13' Rod
91108	Top bracket for Topcon Sensor
91109	Rod bracket for Spectra 1175, 1177, 2077, 1035, 3075
91150	Rod bracket for Spectra 1275
91133	5/8" x 11 adapter for round rods

# Rods



## Laser Line DE Rods

GR1000	10' rod with Cut/Fill, 10ths/100ths, with rails
GR1000T	10' rod with 10ths/100ths, with rails
GR1000M	3 Meter rod, metric, with rails
GR1450T	15' rod with Cut/Fill, 10ths/100ths, with rails
GR10T	10' rod, 10th/100ths
GR15T	15' rod, 10ths/100ths
GR-10M	3 Meter rod

## Rod Accessories

1000-1301	Case for LL GR1000 series
1000-1302	Case for LL GR1450 series
EX	LL 4' rod extension
B-1	LL bracket for Topcon sensor
B1-LS70	LL bracket for Topcon LS-70B sensor
B-2	LL bracket for Spectra sensor
5079-038	Seco bracket for Topcon sensor

## Aluminum Telescoping Rods

06-813	13', 4 section, 10ths/100ths
06-8042MM	4 Meter rod, dm, cm, 2mm
06-820	Case for 16' aluminum rod

## Contractors Wood Rod

56246	8' Contractors rod, 10ths/100ths
-------	----------------------------------

## Rover Rods

5125-00	Rover rod 5/8" x 11 fluorescent yellow
5125-20-YEL-GT	Rover rod snap lock fluorescent yellow
5128-00	Rover rod carbon fiber
22-006003-01	Litepole (aluminum rod)
22-006004-01	Litepole (composite)

# Rover Rod

## Accessories & Adapters



### Rover Rod Accessories

8160-00	Prism pole bag
5001-20	Heads-up rod level
56273	Replacement shoe
56275	Topo shoe
56276	Large topo shoe
5194-00	Steel shoe w/replacement tip
5194-03	Steel shoe w/steel replacement tip
6000-002	Replacement tip for 5194-00
5195-00	Prism pole adjuster
5131-00	2' Prism pole extension
91600	Steel tip for Composilite prism pole
91601	Topo boot for Composilite prism pole
91605	Point & tip for Composilite prism pole

### Rover Rod and Fiberglass Adapters

2080-00	Female, 5" x 11" to Quick Release
2090-00	Female, Quick Release to 5/8" x 11 male
5180-00	Male, 5/8" X 11 to Male 5/8" x 11
5181-00	Double female, 5/8" x 11
2131-00	5/8" x 11 to 1/4" x 20

### Rover Rod Adjusting Jig

5195-01	Pole Peg Adjusting Jig
---------	------------------------

### Bi-Pods & Tri-Pods

51779	Thumb release Bi-Pod
51781	Thumb release Tri-Pod
5195-00	Level Rod Bi-Pod
5217-15-ABK	Bi-Pod (kick stand) 12" Open Clamp

**COMPLETE 3D GPS SYSTEMS**

Base Station, Machine Rover &  
Man Rover- Single/Dual Antenna

Base Station & Rover  
Machine Rover, Single Antenna

Machine Rover, Dual Antenna,  
Man Rover w/Controller

**3D GPS COMPONENTS**

Base Station Receiver  
Mag Box- Single/Dual Antenna  
Man Rover w/oController  
MC-A1 Single Antenna  
MC-A2 Dual Antenna  
Base Radio, 35 Watt  
Controller w/Software

**2D M/C COMPONENTS**

MG/Dozer Control Box  
Paver Control Box  
Main Fall Sensor  
Slope Sensor  
Rotation Sensor  
Sonic Tracker  
Paver Junction Box  
Tracker Jack w/ Vib Pole  
Tracker Jack w/o Vib Pole  
LS-B2C  
LS-B2B  
LS-B2A  
LS-B3

**GENERAL CONSTRUCTION LASERS**

RL-H3C  
RL-H3CL  
RL-H3A

**SLOPE LASERS**

RL-H3CS (Slope Matching)  
RL-H1SA  
RL-H2SA  
RT-5SB  
RT-5SA  
RT-10S

**PIPE LASERS**

TP-L4B  
TP-L4BG  
TP-L4G

**INTERIOR LASERS**

RL-VH3D  
RL-VH3B  
RL-VH3A  
RL-VH3G

**LASER RECEIVERS**

LS-B2C  
LS-B2B  
LS-B2A  
LS-B3  
LS-70B  
LS-70C

**AUTO LEVELS**

AT-G2  
AT-G3  
AT-G6  
AT-G7N

**ELECTRONIC TRANSITS**

DT-209  
RT-10S

**ACCESSORIES**

8' ROD  
25' ROD  
LL ROD w/BRACKET  
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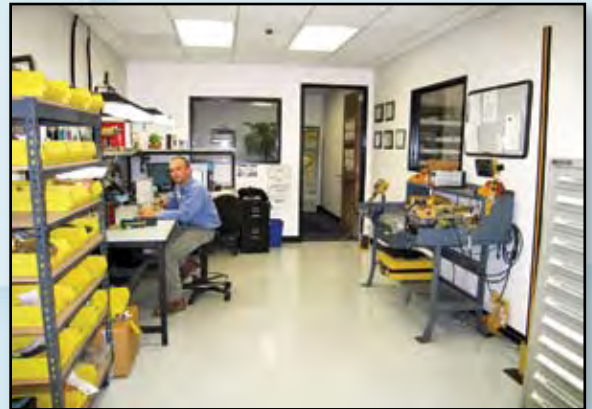


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