



SINCE 1956

**FLT**  
*Geosystems*

**LSR**

A DIVISION OF FLORIDA LEVEL & TRANSIT CO.

# SURVEYING AND CONSTRUCTION CATALOG 2008

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# Burj Dubai Tower



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Both GPS and TPS  
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# Contents

|                    |    |
|--------------------|----|
| GPS Systems        | 3  |
| GIS                | 10 |
| Laser Scanner      | 11 |
| Total Stations     | 13 |
| Theodolites        | 20 |
| Automatic Levels   | 21 |
| Construction Inst. | 22 |
| Digital Levels     | 23 |
| Data Collectors    | 24 |
| Calculators        | 26 |
| Software           | 27 |
| Prism Poles/Bipods | 30 |
| Tripods            | 31 |
| Tribrachs          | 33 |
| Radios             | 33 |
| Leveling Rods      | 34 |
| GPS Accessories    | 37 |
| Cables             | 38 |
| Batteries/Chargers | 38 |
| Measuring Wheels   | 39 |
| Magnetic Locators  | 40 |
| Tapes              | 41 |
| Distos             | 43 |
| PLS/Laser Tools    | 44 |
| Flagging           | 45 |
| Marking Paint      | 46 |
| Field Supplies     | 47 |
| Stakes/Supplies    | 52 |
| Safety Equipment   | 53 |
| Field Books        | 55 |
| Drafting Supplies  | 57 |
| Lasers             | 59 |
| Machine Control    | 66 |
| Credit Application | 69 |
| Index              | 70 |

# FLT Geosystems & LSR A Historical Perspective

The origin of FLT Geosystems began over 50 years ago. The Florida Level & Transit Co. was established in May of 1956 by the late Kenneth (Cap) MacDonald. Cap was convinced that survey instruments were integral to Florida's construction industry and that there was also a great need for someone who could repair these instruments. Cap first operated the business out of his apartment in 1956 and soon moved the business to its present location on Progresso Drive in Ft. Lauderdale, Florida. Cap quickly found himself driving 50,000 miles a year picking up instruments for repair and selling supplies while Flo, his wife, handled the walk-in trade and simultaneously kept the books. Cap's son, Dick MacDonald, joined the rapidly growing business in 1963 and began the expansion to the four branches and 40+ employees we have today. In 1972, Engineered



circa 1956



Cap and Flo MacDonald circa 1981

Investments, Inc., our in-house leasing company, was added to assist our customers with a variety of flexible leasing products. LSR, Inc. was created in 1974 to serve the construction trades with pipe lasers, rotating lasers, and machine control products. Terry McKay, Dick's son-in-law, came on board in 1998 and today runs the day-to-day operations as President. Terry's son, John McKay joined the firm in 2003, adding the fourth generation committed to serving our customers with the best products and services possible. FLT Geosystems became the trade name of the Florida Level and Transit Co. in 2000 to reflect the evolution of the business into the digital age of total stations, GPS, reference station networks, and software.



John McKay, Terry McKay, Dick MacDonald

## Who We Are and What We Do

Since FLT Geosystems opened the doors in 1956, the continuing goal has been to provide the best possible products and services-at the best possible prices-to land surveyors, mappers, engineers, and contractors. FLT Geosystems is a dealer for Leica Geosystems (full-line), Topcon (construction instruments), Nikon, Carlson, TDS, MicroSurvey, Juniper Systems, Pacific Crest, CST Berger/David White and Northwest Instruments. We also represent a wide range of survey supply manufacturers as well. Our sister company, LSR, Inc. specializes in the sale and service of construction lasers, construction layout instruments, and machine control equipment. LSR is a dealer for Spectra Precision/Trimble (construction instruments), Leica Geosystems/Laser Alignment machine control, MOBA Mobile Automation machine control, and PLS (Pacific Laser Systems) lasers. Our home office is located in Ft. Lauderdale, with branch offices in Jacksonville, Tampa and Orlando. We serve clients throughout the Southeastern United States as well as Central and South America and the Caribbean. We repair all makes of surveying instruments and lasers in our modern factory-authorized repair centers.



Ft. Lauderdale



Orlando  
711 S. Kirkman Rd.  
Orlando, FL 32811



Jacksonville  
3539 West Beaver Street  
Jacksonville, FL 32254



Tampa  
5468 56th Commerce Park Blvd.  
Tampa, FL 33610

# It All Began With Service

Cap MacDonald began Florida Level & Transit Co. over 50 years ago as an instrument repair business with a post office box for an address. After some training from a reputable instrument house in Ohio, Cap performed maintenance work and minor adjustments here and sent instruments that needed major repair to the instrument house in Ohio. Occasionally he would call Ohio and receive instruction over the phone on how to do a particular repair. Today, our eight factory-trained technicians repair all makes of surveying instruments and lasers in our modern factory-authorized repair centers located around the state. Excellence in the hands-on servicing of equipment and our commitment to technical support for our customers, have kept the vision of our founder, Cap MacDonald alive through the decades.



circa 1974



**The Best Products   The Best Service   The Best Prices**

Give us a try - you won't be disappointed



## Ordering Options

### Order by phone

Order by phone is a great way to confirm product availability, check current prices, and receive information on when orders should arrive. Please call between 8:00 AM and 5:00 PM ET, Monday through Friday.

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### Order by mail

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Ft. Lauderdale, FL 33302-4878

## Payment Options

We offer four ways to pay for your order: credit card, open account, bank wire transfer, check/money order. We accept Visa, Mastercard, AMEX, and Discover. Be sure to have the card number, expiration date, and billing address associated with the credit card when you order. With approved credit, you can charge items to your own FLT or LSR account. To open an account, request a credit application from any branch. Normal terms are 2% 15, net 30 days.



## International Orders

If you are placing an order to be delivered outside of the United States, we accept cash or bank wire transfers only. There is no Florida sales tax on items delivered to a freight forwarder for shipment outside the U.S. Items picked up in person are subject to Florida sales tax (6% in Ft. Lauderdale). We are happy to work with your freight forwarder or can recommend one serving your area. You are responsible for any taxes or duties imposed by the importing country.

## Customer Service>Returns

If you have a concern with a product purchased from us please call us immediately. We will work hard to ensure your complete satisfaction. Items returned with an original receipt within 30 days will be cheerfully accepted provided the item is from ordinary stock and is in new, saleable condition. Special order items cannot be accepted for return.

## Shipping Information

Shipping via UPS ground is free of charge to customers in our service area of Florida and Georgia on orders of \$100 or more. Exceptions: We charge normal UPS ground rates for repaired instruments and UPS oversized items like traffic cones, T-stands, over-the-top targets, and elevator tripods. These items are denoted by the UPS oversize symbol. We are glad to work with our international customers by delivering to a variety of freight forwarders or shipping direct via UPS or FedEx.



**FREE SHIPPING!**  
ON ORDERS OF \$100 OR MORE  
SEE INSIDE COVER FOR DETAILS

## Delivery Information

Special delivery for wood stakes, rebar, iron pipe, and concrete monuments: For orders of \$350 or more, these products are delivered free of charge to the following counties: Miami-Dade, Broward, Palm Beach, Martin, St. Lucie, Indian River, Collier, Lee, Charlotte, Hendry, and Glades.

Tip: add supply items like paint, flagging, wire flags, nails and UPS oversized items to your order to reach the \$350 threshold for free delivery.



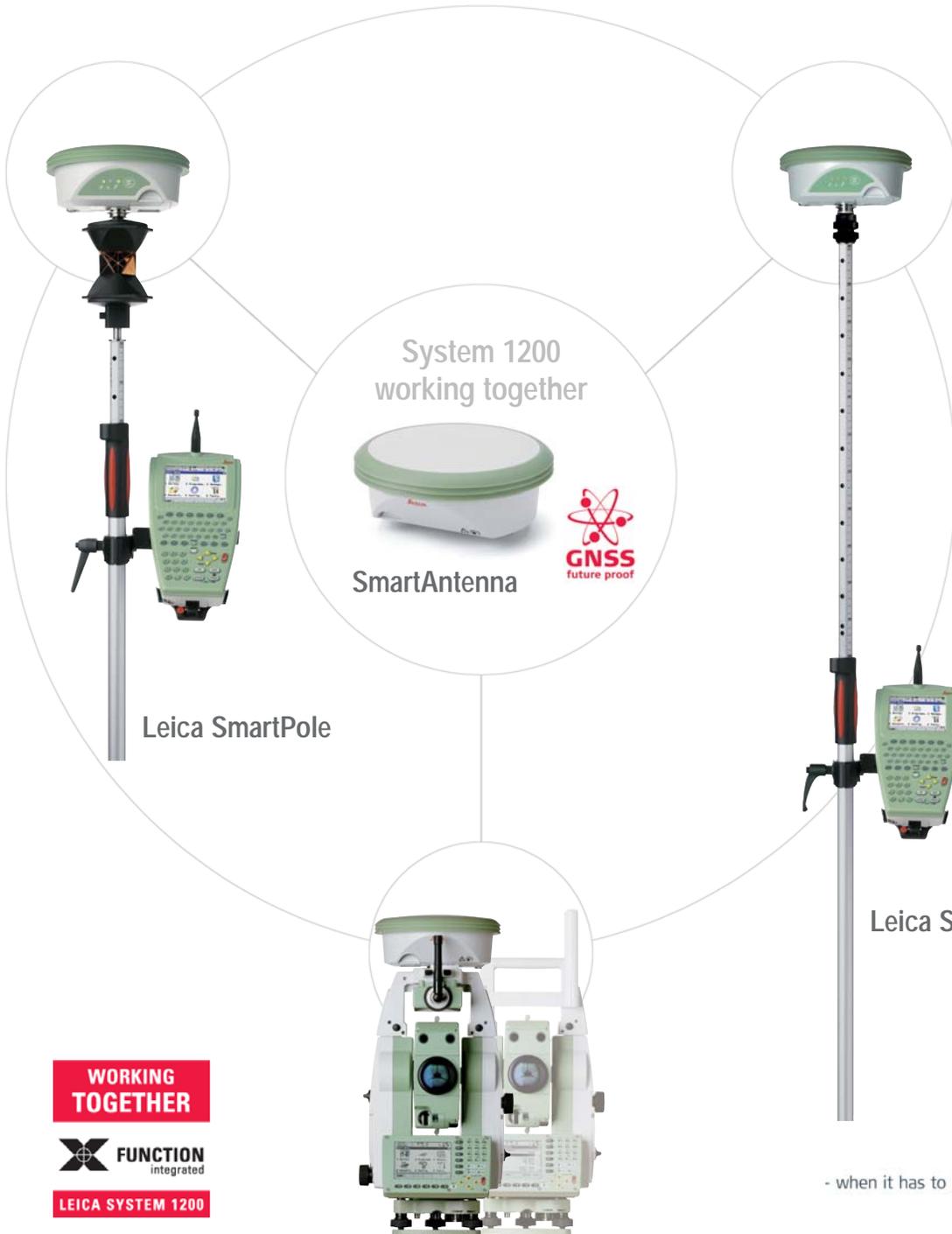
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**CALL TO ORDER 800-327-0775**

# Leica System 1200 - GPS and TPS working together

the world's most flexible and complete surveying system

SYSTEM 1200



Leica SmartPole

Leica SmartRover

Leica SmartStation

**WORKING TOGETHER**  
**FUNCTION**  
 integrated  
**LEICA SYSTEM 1200**

- when it has to be right



**RX1250 CONTROLLER**  
 The new WinCE controller includes an integrated spread-spectrum radio compatible with the TPS1200 RadioHandle, and a next generation color screen for bright, high contrast visibility in all conditions.



**High Performance 360° prism**  
 The unique light-weight 360° prism supports high-accuracy measurements, allows attachment of a Leica SmartAntenna and easily survives a topple-over.



**ATX1230 Smart Antenna**  
 The light-weight GNSS SmartAntenna incorporates GPS and GLONASS technologies and provides SmartTrack+ supreme tracking performance. Complete flexibility for use with SmartPole, SmartStation or SmartRover.

Now with a new, ultra-precise GNSS measurement engine, new, fast, self-checking RTK algorithms, and a comprehensive, self-explanatory user interface.

**GPS1200 Features:**

- SmartTrack+ GNSS technology/SmartTrack GPS technology
- SmartCheck 30km RTK
- Exceptionally rugged and built to tough MIL specifications.
- User programmable
- GNSS Reference stations
- Track all available GNSS signals.



ultra-rugged



fully waterproof

**0% FINANCING AVAILABLE!**



Leica now supports GPS (including L2C), GLONASS, and the future GPS L5 and Galileo signals



SYSTEM 1200



**Call for the BEST QUOTE Today**

**SmartTrack GPS technology**

GPS1200's SmartTrack measurement engine acquires all visible satellites within seconds, tracks to low elevations, and measures under trees and in areas of interference where other receivers often fail. Strong signals, highly effective multipath mitigation and advanced anti-jamming guarantee top GPS performance.

A further advantage is that GPS1200 receivers with SmartTrack technology are designed so that they can be upgraded to support GPS satellite signal developments. Your investment is secure.

**SmartCheck 30 km RTK**

RTK is faster, more accurate and more reliable than ever before. SmartCheck processes SmartTrack measurements for centimeter-accuracy, 20 Hz RTK at 30km or more. Initialize within seconds and survey under trees and where RTK never worked in the past. A unique, built-in integrity monitoring system checks all results immediately.

# Leica Geosystems SmartRover

## The world's lightest cable-free RTK GPS

Now the world's best-performing GPS system is also the world's lightest. Less weight reduces operator fatigue. Best of all, we've dropped weight without reducing performance. You still get the powerful SmartTrack measurement engine that out-performs every GPS system on the market. Count on heavyweight performance from this amazingly lightweight system.



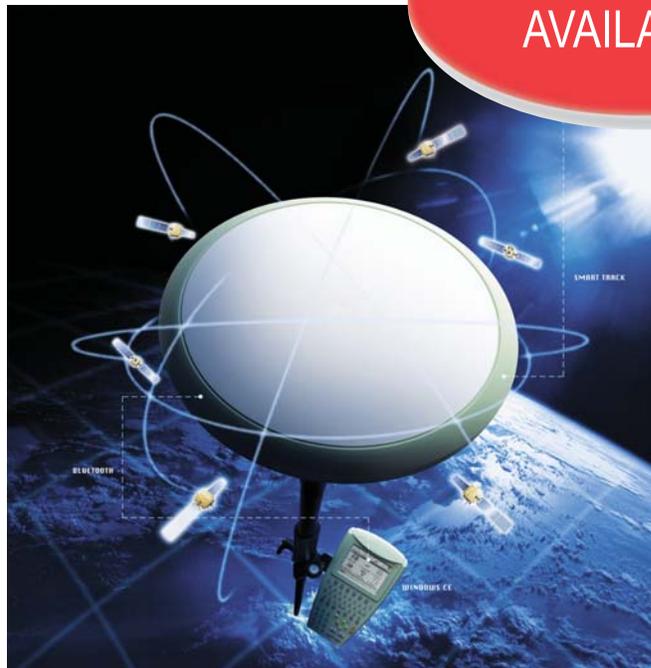
Leica now supports GPS (including L2C), GLONASS, and the future GPS L5 and Galileo signals

- Weighs only 6.2 lbs. 25% lighter than the competition
- **BLUETOOTH INTEGRATED**/completely cablefree
- SmartTrack & SmartCheck for best GPS results
- All-on-the-pole convenience
- Fully compatible with Leica GPS1200 and SmartStation
- 1Hz to 20Hz operating speed
- RTK communication options:
  - Pacific Crest Radios
  - Intuicom Spread Spectrum Radios
  - GSM/GPRS modems -CDMA modems

Call for the **BEST QUOTE** Today



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# Continually Operating Reference Stations

Today, many organizations in many parts of the world recognize the benefits of establishing GPS reference stations and networks to support surveying, GIS, construction, geodesy, navigation, and monitoring natural and man-made structures.

The **Leica GRX1200 Series**, part of Leica's new System 1200, is designed specifically for use as reference stations. With these new receivers, GNSS reference stations become more accurate, more powerful, more versatile and more reliable than ever before, yet they are easier to set up and operate.

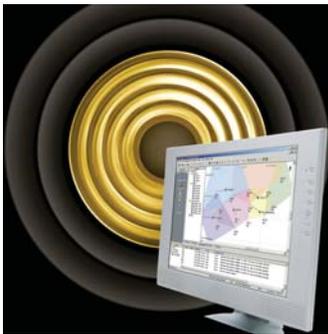
The Leica GRX1200 series incorporates an ultra-precise GNSS (Global Navigation Satellite System) measurement engine that supports both GPS and GLONASS-benefit from up to 100% more satellites than GPS alone.

The Leica GRX1200 Series delivers uncorrelated data of the highest quality under all conditions making them ideal for all reference station applications. The new SmartTrack+ receivers are designed to support future GNSS signals such as GPS L5 and Galileo. **Your investment is secure.**



Visit  
**fltgeosystems.com**  
for more information

**AT504** dual frequency choke ring antenna



**GPS Spider** reference station software



reference stations currently operating in Florida

Over **70** Leica CORS reference stations operating in Florida

Selected by state agencies, counties, cities, and private surveyors statewide

Many of these operate in the public domain and are accessible free of charge

RTCM, 2.x, RTCM 3.0 Leica proprietary, CMR and CMR+ formats are supported.

Recording rates are selectable from 0.05 to 300 seconds

Work faster  
More accurately and  
More efficiently  
Call for pricing and more information



**GRX1200 Pro** with ethernet port for easy LAN/WAN connectivity



# Leica SmartPole

Geosystems

LEICA SYSTEM 1200

With Leica SmartPole, both TPS and GPS are available at all times to ensure every point can be measured. When GPS is restricted to overhead obstructions...use TPS; when no line-of-sight is available...use GPS.

## SmartPole Features:

### On-the-Fly survey and setup simultaneously...

No longer is it necessary to first measure control points and only then detail points. Avoid time consuming traverses to bring control to the survey area. Simply begin the survey and conduct the setup on-the-fly while completing the survey. Once the TPS control and detail points are known, all measured points are automatically updated.

### Increased flexibility...

The same SmartAntenna can be used together with a TPS1200 as a SmartStation, together with a RX1250 controller as a SmartRover or together with a 360 prism and a RX1250 controller as a SmartPole.



## RX1250 Remote Control

With the RX1250 remote control unit you can control both the TPS1200 with the Radio-Handle and the GPS SmartAntenna via Bluetooth from the rover pole.

## RX1250 Features:

- Optional for all TPS1200 total stations
- Collect data from GPS and TPS
- Reliable wireless communication via Radio-Handle and Bluetooth
- Perfect one-man survey system



# Leica SmartStation

Geosystems

LEICA SYSTEM 1200

World's first TPS and GPS perfectly combined. High performance total station with powerful GNSS/GPS receiver. No need for control points, traverses, or resections.

## SmartPole Features:

### Position coordinates at the touch of a key...

Just press the GPS key and let the SmartAntenna do the rest. RTK determines position to centimeter accuracy within a few seconds at ranges up to 50 km from a reference station. Fix the position with GNSS/GPS and then survey with the total station.

### Increased flexibility...

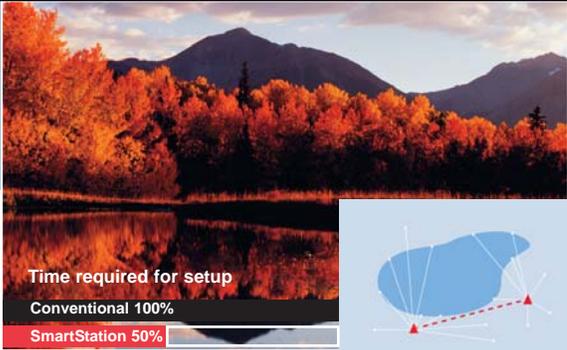
You can use the SmartStation any way you like. Once the SmartStation is positioned, take off the SmartAntenna, put it on a pole, and use it with the RX1250 controller and GX1230 sensor as a fully-fledged RTK rover.



# Leica SmartStation

## Total station with integrated GPS

### Remote area topographic survey



Time required for setup

Conventional 100%

SmartStation 50%

#### Situation

Survey company has a detail and topographic survey in a remote area. Vegetation makes kinematic RTK difficult and a total station has to be used. There are no control points but there is a reference station 40 km away transmitting RTK.

#### The advantages

- Points occupied only once
- Only SmartStation is needed
- Only one crew is needed
- Automatic transformations
- Survey takes less time

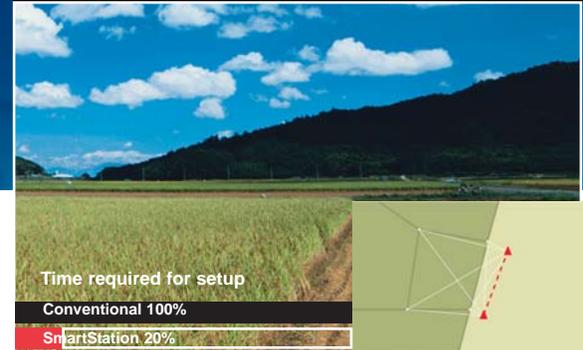
#### SmartStation way

Set up SmartStation where it is convenient and determine the position with RTK. Orient to a second point that will be used but is not coordinated yet. Survey the detail from the first station. Set up at the second point and determine the position with RTK. As the bearing between the points is now known, SmartStation transforms the coordinates of all detail surveyed from the first point. Orient to the first point and survey the detail from the second point.



Leica now supports GPS (including L2C), GLONASS, and the future GPS L5 and Galileo signals

### Rural area boundary survey



Time required for setup

Conventional 100%

SmartStation 20%

#### Situation

A farm boundary has to be surveyed with a total station. The nearest control points are 5 km away. RTK data can be received from a reference station.

#### The advantages

- No long traverses needed
- Less setups needed
- Fewer people required
- Takes less time
- Uniform higher accuracy

#### SmartStation way

Set up SmartStation at a first point where one or more boundary markers can be seen. Fix the position with RTK. Orient to a second point, which is not yet fixed. Measure angles and distances to the markers. Set up at the second point, fix the position and orient to the first point. All previous measurements are transformed automatically in SmartStation. Survey the markers from the second point. Survey the boundary in this way using pairs or clusters of SmartStation points.

### Construction site stakeout



Time required for setup

Conventional 100%

SmartStation 40%

#### Situation

A large number of markers have to be placed and many components positioned. Control points exist but often get damaged or are covered by equipment, material, vehicles etc. There is a GPS reference station but, due to obstructions and the type of construction, most points cannot be set out with RTK.

#### The advantages

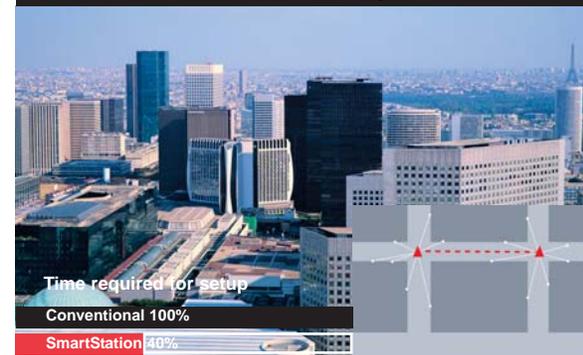
- Set up where convenient
- No traversing needed
- Fewer obstructions
- Faster stakeout
- Faster construction work

#### SmartStation way

Control points are not required. Simply set up SmartStation wherever it's convenient. Set up at a first point and fix the position with RTK. Set up at a second point, fix the position, use the first point for orientation, and stake out from the second point. Work in this way establishing pairs or groups of points from which to stake out. As RTK determines the positions, the groups do not have to be connected by total station measurements.



### Urban area utilities survey



Time required for setup

Conventional 100%

SmartStation 40%

#### SmartStation way

Set up SmartStation where RTK fixes are possible, such as at road intersections, open spaces and even on the tops of buildings. Use pairs of SmartStation setups as explained in the previous examples. Measure angles and distances to the objects that have to be surveyed.

#### Situation

The positions of all man-holes, covers, hydrants, distribution boxes etc. for water, gas and electricity have to be determined. High buildings and trees along the roads prevent the use of RTK rover equipment. Many objects are close to buildings or under trees. The city operates GPS reference stations.

#### The advantages

- Control points not needed
- No awkward traversing
- RTK fixes the positions
- Consistent high accuracy
- Fast, flexible, convenient
- Much easier, saves time

WORKING TOGETHER



LEICA SYSTEM 1200

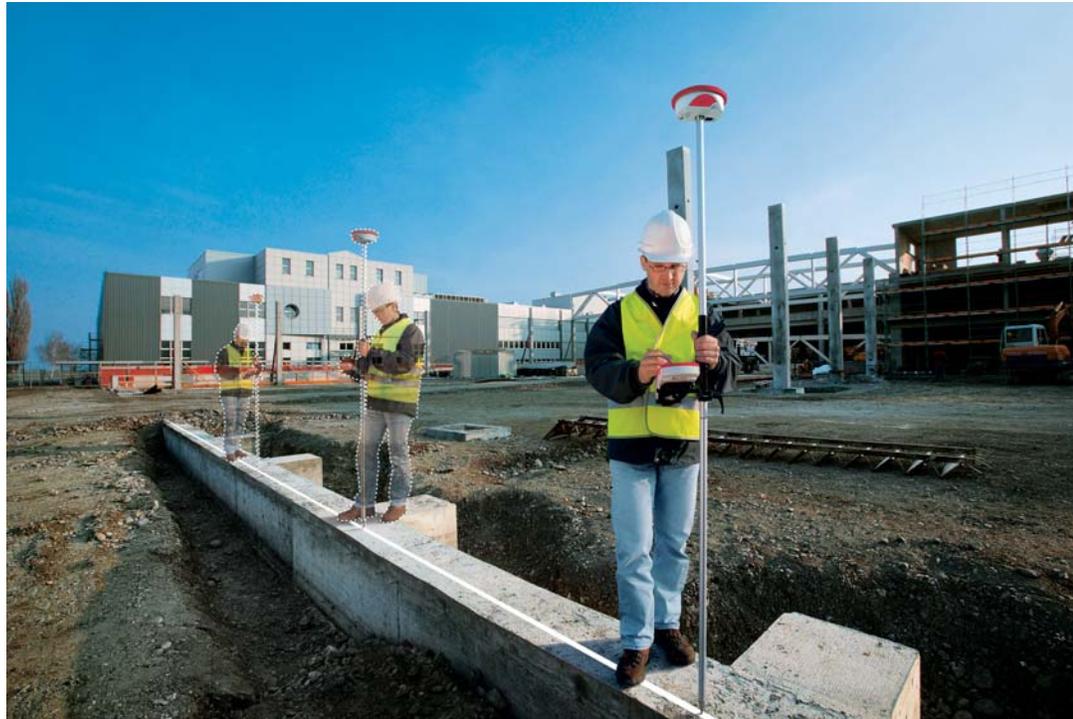
go to [www.leicageosystems.com](http://www.leicageosystems.com) for more information

# Leica Geosystems GPS900

The new Leica GPS900 uses Leica Geosystems' proven GPS technology. Consisting of a Leica RX900 Controller and a Leica ATX900 GPS Antenna the all-on-the-pole GPS900 RTK rover is ideal for one-person stakeout and topographic tasks.

With its flexible, easy-to-use onboard software, Leica GPS900 is the ideal solution for a wide range of jobs including foundation and drainage work, alignment stakeout, topographic and as-built surveys.

## Big Ambitions on a Budget!



### TOPOGRAPHIC SURVEY

Record points with or without code and attribute information. Set criteria and measure points automatically. View the survey in the large, graphical map-view display. Use the Survey program for detail, topo, title surveys etc.



### CONTROL LINES

Stakeout and measure relative to lines and arcs. Enter offsets and heights. Control/Reference lines can be defined using the map-view. Set checks for quality control. Ideal for buildings, drainage, foundations etc.

**0% FINANCING AVAILABLE!**

#### One person, one case

The GPS900 is ideal for one-person stakeout and survey work. Everything that is needed for a days work can be easily transported and setup.



- EASY TO USE
- LIGHTWEIGHT
- GRAPHICAL, USER FRIENDLY SOFTWARE
- STAKEOUT POINTS AND DTMs
- COMPATIBLE WITH TPS400, 800, 1200 and GPS1200

# GIS & SINGLE FREQUENCY GPS

## Archer Field PC

The ultra-rugged Archer Field PC by Juniper Systems is your reliable field companion. It's rock solid and designed to be dropped, submerged in water and used in extreme field environments. The Archer was designed for Windows Mobile 5.0 and run a variety of third party data collection software such as Carlson SurvCE and Microsurvey Field Genius. Add GPS capability by purchasing the extended cap and ESRI ArcPad enabling you to run your favorite GIS software.

### Archer Features:

- Expand functionality via user accessible, sealed CF and SD cards. Use extended cap for oversized CF cards and GPS capability.
- Connect points, map or navigate using GPS options. Communicate wirelessly via bluetooth, Wi-Fi, or cellular modems.
- 512 Mhz Intel XScale processor; 128Mb Flash RAM
- Waterproof, dustproof, shockproof (IP67) (MIL-STD-810F)
- Long Li-ION battery life and quickly charged showing battery status.
- Field ready. Lightweight, fits your hand, and large backlit keys.

Call for the BEST QUOTE Today



Without Optional Extended Cap



| Item           | Description                  | MSRP   |
|----------------|------------------------------|--------|
| 71083 JUN14802 | Archer Field PC              | \$1495 |
| 72266 JUN14803 | Archer Field PC w/ Bluetooth | \$1605 |
| 73804 JUN15076 | GPS receiver extended cap    | \$350  |

## GS20 PROFESSIONAL DATA MAPPER

The Leica GS20 combines the all-in-one simplicity of a recreational GPS handheld with the power of a professional grade mapping system.

With the GS20, powerful functionality doesn't mean difficult to use. The menu-driven interface and graphical map display make it easy to learn so field crews can start collecting data right away.

- **ClearTrack Multipath Mitigation** for the most accurate positions possible from a handheld-typically 40 cm in favorable conditions with optional Real-Time Coast Guard Beacon Module (WoRCS)
- **Coordinate Quality Monitor**-know the quality of your data while you collect it
- **GIS DataPRO software** combines the native shapefile format of ESRI's Map Objects Engine with simple internet reference download and the proven power of Leica's SKI PRO processing software
- **Upgrades to Real-time Coast Guard Beacons Module (WoRCS) and external antenna** for higher accuracy available.



Call for the BEST QUOTE Today



## LEICA SR20 GPS RECEIVER

The SR20 single frequency survey system performs high-accuracy static data collection for the land surveyor at a low cost.

The Leica SR20 is capable of centimeter accurate post-processed solutions, as well as sub-meter real-time Satellite Based Augmentation System (SBAS) solutions, such as WAAS and EGNOS. Built with an intuitive survey workflow that is both easy to learn and use, the SR20 offers the maximum in flexibility out of a GPS receiver. All of this coupled with the powerful Leica GPS technology makes this low-cost GPS receiver a great package.

# Leica ScanStation 2

## A New Level of Versatility and Speed in Laser Scanners



### ScanStation 2

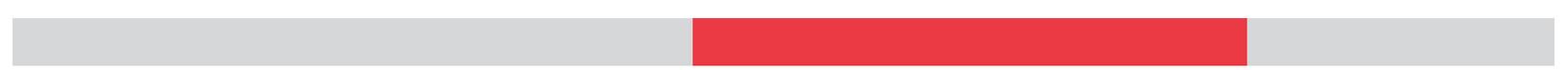
With a 10-times boost in maximum instantaneous scan speed and the full freedom and accuracy of a total station, Leica ScanStation 2 lifts laser scanning to the next level. These speed and productivity boosts build on the already industry-leading versatility of the ScanStation class of laser scanner to make High-Definition Surveying (HDS) profitable for even more as-built and topographic survey projects.

For many as-built and topographic surveys, laser scanners have already proven to significantly reduce field labor compared to traditional methods. ScanStation 2's jump-step increase in pulsed scan speed further slashes these costs – field labor is now as little as one-fifth of that of traditional methods for many projects.

### Features & Benefits:

- Allows for safe, cost-effective surveys of busy intersections and other urban environments.
- Cuts survey costs of topographic surveys and reduces site re-visits.
- Small and large buildings can be cost-effectively surveyed, both inside and out. Digital photos can be overlaid for added realism.
- The full dome field-of-view lets users capture overhead, vertical, horizontal, and sub-level geometry with equal ease.
- Like a total station, users can setup over control, traverse, resection, and even stakeout with its built in dual axis (tilt) compensation.
- ScanStation 2's detection range (300 m @ 90% reflectivity), high accuracy, small beam, and ultrafine scanning allow it to work in typical jobsite conditions.





Built for speed, accuracy, and ease-of-use, TPS1200 total stations carries out the most complex tasks and, best of all, combines perfectly with GPS.

### TPS1200 Features:

- Fast, precise, long-range EDM up to 3 km to a single prism
- PinPoint reflectorless EDM up to 500m with an extremely small spot size
- Together with GPS1200, integrates the unique X-functions of uniform operating concept and identical data management
- Available in manual, auto target recognition, or full robotic configurations
- Time-saving measurement aids:
  - Angle and distance measurement (IR)
  - PinPoint reflectorless EDM (RL)
  - Automatic Target Recognition (ATR)
  - Automatic Target Tracking (LOCK)
  - PowerSearch (PS)



## Powerful Data Collection THREE GREAT CHOICES

- Carlson SurvCE 2.0 running on an Allegro CX/RCS data collector.
- Leica SmartWorx running on a Leica RX1250 data collector.
- Leica SurvCE running on a Leica RX1250 data collector.



Angle and distance measurement (IR)



#### Highest accuracy Longest range

TPS1200's precision angle measurement system operates continuously providing instant horizontal and vertical readings that are automatically corrected for any "out of level" by a twin-axis compensator.

PinPoint - reflectorless EDM (RL)



#### Marks the point precisely Measures directly

PinPoint is the ideal tool for measuring to wall corners and inaccessible objects. PinPoint's tightly bundled laser marks the point exactly with a small red dot. Measurements are taken instantly and directly.

Automatic Target Recognition (ATR)



#### Automatic fine pointing Uniform measurements

With ATR, you only need to point roughly with the optical sight and trigger a measurement; TPS1200 does the rest fully automatically. The infrared beam transmitted through the telescope is reflected back by the prism and analyzed instantly.

Automatic Target Tracking (LOCK)



#### Mass point surveys in record time

Lock mode is part of ATR and enables TPS1200 to track a moving reflector. After the initial ATR measurement, TPS1200 remains "locked" onto the reflector and follows it as it moves. Measurements can be taken at any time.

PowerSearch (PS)



#### Finds reflector automatically

PowerSearch finds reflectors within seconds no matter where they are. With PowerSearch activated, TPS1200 rotates and sends out a vertical laser fan. As soon as the fan strikes a prism TPS1200 stops rotating, ATR takes over and fine points-all fully automatically.

Remote Control Unit (RX1220)



#### Operate at the prism For one-man surveys

With the remote control unit and radio modem you can control the TPS1200 from the prism. The control unit has the same display as the TPS1200 but with a touch screen and a full alphanumeric keyboard. TPS1200 transmits its current display continuously to the remote control unit.



Call for the  
**BEST QUOTE**  
Today

# Leica Geosystems TPS800 SERIES

## TPS800 Features:

- Easy to learn and simple to use with a redesigned keyboard, display, and software
- PinPoint Reflectorless technology enables shots to any surface up to 500m away
- 2", 3", 5" accuracy available
- Multi-lingual function
- Built-in laser plummet makes setup quick and easy
- Leica optics provide exceptionally clear target visibility
- Trigger key mounted on side to avoid losing sight of the target
- Theft protection with PIN-code feature
- Electronic Guide Lights makes alignment easy
- Endless drives allows for faster operation with no awkward clamping



## Powerful Data Collection TWO GREAT CHOICES

Increase your productivity in the field by choosing high performance Carlson or TDS mobile computers for all data collection applications.



TDS



CARLSON

**CALL FOR**  
**Total Package Price**  
**or only \$196.25**  
**per month**

| Equipment                      | List Price         |
|--------------------------------|--------------------|
| Leica 800 Series Total Station | \$8050.00          |
| Carlson Explorer II w/ Surv CE | \$2295.00          |
| Wood/fiberglass tripod         | \$129.95           |
| <b>PACKAGE LIST PRICE</b>      | <b>\$10,474.95</b> |



**Economical batteries**  
Leica TPS800 instruments use commercially available camcorder batteries. Also available is the GK112 quick charger that includes an AC adapter and a car charging cable.



### Individual data exchange

Data exchange is easy and flexible that just about any format can be created. This allows data to be transferred to any software.

## TPS400 Features:

- Large, high resolution screen provides a clear display
- PinPoint Reflectorless technology enables shots to any surface up to 500m away
- 2", 3", 5" accuracy available
- Multi-lingual function
- Built-in laser plummet makes setup quick and easy
- Leica optics provide exceptionally clear target visibility
- Compatible with all major data collectors
- Dual axis compensation
- Anti-theft protection

**Leica** Geosystems **TPS400 SERIES**



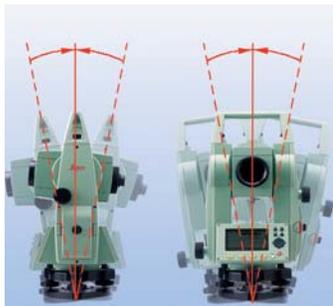
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**BEST QUOTE**  
Today



0% financing  
available

**CALL FOR**  
**Total Package Price**  
or only **\$142.15**  
per month

| Equipment                      | List Price                  |
|--------------------------------|-----------------------------|
| Leica 400 Series Total Station | \$5695.00                   |
| Carlson Explorer II w/ Surv CE | \$1749.00                   |
| Wood/fiberglass tripod         | \$129.95                    |
| <b>PACKAGE LIST PRICE</b>      | <b><del>\$7573.95</del></b> |



### Dual axis compensator

A fully automatic dual axis compensator performs fine leveling and guarantees perfect horizontal alignment. For applications from mobile platforms the compensator may be deactivated.



### Laser plummet

Easy to center over a set up point thanks to the laser plummet. The intensity of the laser point can be adjusted step-by-step to maintain visibility even in critical lighting conditions.

**TPS400 series**

## NIKON DTM-302 Series:

DTM-362/352/332

- IPX6 weatherproof rating that withstands wind-driven rain
- Long-lasting battery for up to 16 hours of measurements
- World renowned Nikon optics
- EDM type: Standard IR EDM
- Distance Accuracy: 3mm + 2 ppm
- Angle accuracy: 3"/5"/5"
- Compensator: Dual axis (DTM-332 single axis)
- Keyboard: Dual sided (DTM-332 single keyboard)



# TOTAL STATIONS



AS LOW AS  
**\$118.63**  
per mo.



### Powerful Data Collection TWO GREAT CHOICES

Increase your productivity in the field by choosing high performance Carlson or TDS mobile computers for all data collection applications.



## NIKON NPL-302 Pulse Laser Series:

NPL 362/352/332

- IPX6 weatherproof rating that withstands wind-driven rain
- Long-lasting top mount battery up extending up to 24 hours with continuous use
- Limi-Guide tracking light
- NPL Series allows you to switch between prism and prismless modes
- EDM type: Pulse laser (reflectorless)
- Distance Accuracy: 3mm + 2 ppm (prism)
- Angle accuracy: 3"/5"/5"
- Compensator: Dual axis (NPL-332 single axis)
- Distance range: 650 ft. reflectorless, 16,400 ft. prism
- Keyboard: Dual sided (DTM-332 single keyboard)

AS LOW AS  
**\$136.90**  
per mo.



**CALL FOR**  
**Total Package Price**  
**or only \$118.63**  
**per month**

| Equipment                          | List Price                  |
|------------------------------------|-----------------------------|
| Nikon DTM 302 Series Total Station | \$6495.00                   |
| TDS Recon NX w/ Survey Standard    | \$1495.00                   |
| Wood/fiberglass tripod             | \$129.95                    |
| <b>PACKAGE LIST PRICE</b>          | <b><del>\$8119.95</del></b> |





## LM80 Layout Manager

The Trimble LM80 pocket-sized, personal Layout Manager lets you carry, manage, work with, and lay out your jobsite blueprint, regardless of the method and instrumentation you use. The LM80 allows you to input blueprint dimensions to build a digital replica of the layout plan. Stakeout of unknown points is easily accomplished when attached to Trimble construction total stations. The LM80 desktop software is an easy-to-use support tool allowing you to create and modify points quickly from a digital DXF drawing, then upload them to the LM80 enabling you to layout the drawing quickly and accurately.



Easily enter your blueprint dimensions into the LM80 to build a digital replica of your project and a portable reference for your layout tasks.

### 1 ENTER BLUEPRINT



Use the LM80 with a construction total station at your jobsite to guide you through the equipment set up, making it ready for the building layout based on the blueprint you entered.

### 2 SETUP



The LM80 graphically guides you through your building layout, navigates you to your critical building alignments, and creates as-built records of all layout points.

### 3 LAYOUT



#### LAYOUT OF CONTROL POINTS

Handle control points-on or off-set to construction lines-faster, and more cost-effectively than using third party.



#### LAYOUT OF EXCAVATION LINES

Lay out all lines from one reference location with no string lines, transits or theodolites. No need to set up over each control point making layout faster and easier.



#### LAYOUT OF CONCRETE FORMS AND ANCHOR BOLTS

Layout concrete forms or anchor bolts from any location. The software makes this process simple even for novice users.



#### AS-BUILT CHECKS

Check reference lines and dimensions faster, easier and more precisely. Direct reflex capabilities even allow one-person operation on as-built checks.



#### LIGHT TOPOGRAPHICAL MEASUREMENTS

For applications such as cut/fill balance, ditch your tape grid and laser. You'll increase your speed and cut costs by measuring in 3D.

Call for the **BEST QUOTE** Today

#### RUGGED DESIGN

Can survive multiple drops from 4 feet and submerged in water.

#### ENTRY OF BLUEPRINT AND LAYOUT POINTS

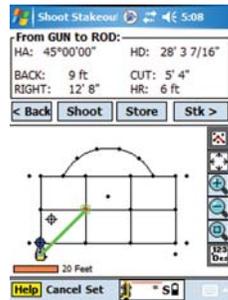
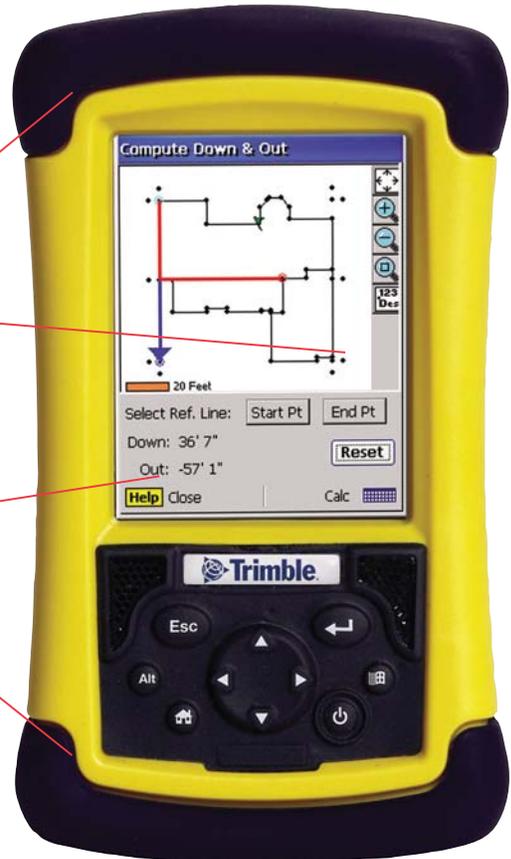
Store multiple jobs and eliminate reliance on paperwork. Quickly and easily check for blueprint errors.

#### EASY INTERFACE

The LM80 graphically guides you through the layout process and has a low learning curve.

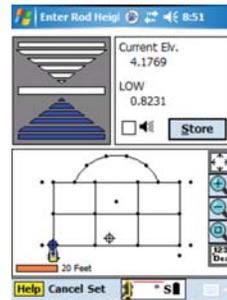
#### LONG BATTERY LIFE

Can work an entire workday on a single charge.



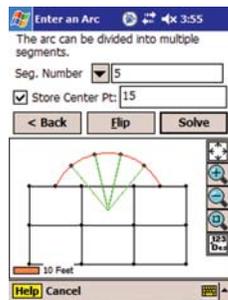
#### Easy to use...

The graphical picture of the job makes it easy to locate points



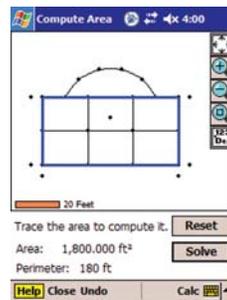
#### Cut or fill...

An elevation is also recorded with each point and given as a simple cut or fill



#### Layout arcs...

Laying out arcs becomes easy when you enter the radius from the plans



#### Calculate area...

Simple area calculations help calculate building materials needed

# SPS700 Robot

Patented MagDrive servo motors allow this robot to be one of the fastest, most accurate, and most responsive on the market making it less likely to lose lock on the prism

## SPS700 features:

### Increase productivity and eliminate mistakes...

With the LM80 at the rod, construction stakeout is faster and simpler which increases productivity and minimizes mistakes. High-quality prism lock on with fast tracking capability enables you to work quickly even at close range.

### Advanced communication...

The SPS700 uses the latest in radio technology and communicates with the LM80 via 2.4 GHz spread spectrum radio which eliminates interference associated with traditional robotic systems.

### Long battery life...

The Li-ION battery mounts in the side panel and give 6-hours of continuous instrument operation.



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# TS415 total station

The Trimble LM80 and TS415 are conventional, two-man systems that lets contractors take control of their construction layout. When the LM80 is used in conjunction with the TS415, the time it takes to layout major points is significantly reduced.

## TS415 Applications:

- Layout of control points on or offset to construction lines
- Checking or tying into property boundaries
- Layout of excavation lines
- Layout of concrete forms and anchor bolts
- As-built checks
- Layout of control lines on concrete pad
- Light topographical measurements for cut/fill balance

# LM80 Desktop Software

The Trimble LM80 Desktop office software allows you to generate a digital replica of your blueprint in the office for use in the Trimble LM80. The program allows you to place points anywhere on the linework of dxf and dwg AutoCAD drawings. Upload the plan into the LM80 via USB cable and the LM80 lets you carry your blueprints in your pocket, and does all your layout calculations for you in the field.



# TOTAL STATIONS



## GTS-230W SERIES TOTAL STATION

Topcon's GTS-230W Series is loaded with standard features including a long life 10 hour NiMH battery, a "Point Guide Feature" to allow fast alignment in staking tasks, and a laser plummet to help make setup fast and easy. Even wireless operation is standard with the GTS-230W Series. On board data collection, handy application programs, and increased distance range and EDM accuracy are all standard with this package. And the rugged, waterproof/dustproof design, (IP-66), will stand up to the harshest construction site environment.

### GTS-230W Series Features:

- Bluetooth wireless technology
- Large, easy-to-read screen
- Dual display on 5" models
- 9000' and 6000' range for 5" and 9" models, respectively
- Long life 10 hr battery
- Laser Plummet
- Waterproof and dustproof (IP66) rating

#### PACKAGE INCLUDES:

|                        |
|------------------------|
| Total Station          |
| Tribrach               |
| NiMH battery (BT-52QA) |
| Charger (BC-27)        |
| Carrying case          |
| Plumb bob              |
| Rain cover             |
| Instruction manual     |

**CALL FOR**  
**Total Package Price**  
**or only \$154.97**  
**per month**

| Equipment                           | List Price            |
|-------------------------------------|-----------------------|
| Topcon GTS 230 Series Total Station | \$5790.00             |
| Carlson Explorer II w/ Surv CE      | \$2295.00             |
| Wood/fiberglass tripod              | \$183.00              |
| PACKAGE LIST PRICE                  | <del>\$8,268.00</del> |

| Item             | Description                     | MSRP   |
|------------------|---------------------------------|--------|
| 11534 TOPGTS235W | Topcon GTS239W 5" Total Station | \$7090 |
| 32838 TOPGTS239W | Topcon GTS239W 9" Total Station | \$5790 |



## GPT-3000W SERIES REFLECTORLESS TOTAL STATION

Wireless operation is standard on the GPT-3000W series reflectorless total stations. On board data collection, handy application programs, and increased distance range and EDM accuracy are all standard with this package. And the rugged, waterproof/dustproof design, (IP-66), will stand up to the harshest construction site environment.

### GPT-3000W Series Features:

- Bluetooth wireless technology
- Reflectorless EDM
- Laser Pointer
- 9900' EDM range (prism) 820' (reflectorless)
- 4 hr battery life
- Laser Plummet
- Waterproof and dustproof (IP66) rating



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#### PACKAGE INCLUDES:

|                    |
|--------------------|
| Total Station      |
| Tribrach           |
| NiMH battery       |
| Charger            |
| Carrying case      |
| Plumb bob          |
| Rain cover         |
| Instruction manual |

| Item              | Description                     | MSRP   |
|-------------------|---------------------------------|--------|
| 56005 TOPGPT3005W | Topcon GPT3005 5" Total Station | \$8195 |
| 78546 TOPGPT3007W | Topcon GPT3007 7" Total Station | \$7090 |



# DIGITAL THEODOLITES



## DT-200 SERIES ELECTRONIC THEODOLITE

Topcon's new DT-200 series integrates the latest technology in both electronics and optics. The DT-200 series allows more than 140 hours of continuous measurement in the angle mode and can stand up to any "wet-weather" condition (IP66) that can occur in the field. The DT-200 series is extremely compact in its size for easy portability and weighs under 10 lbs. The DT-200 series is so easy to operate that anyone at the site can use it without the need of any special training.

### DT-200 Series Features:

- Long battery life 140h
- Easy to operate
- Waterproof and dustproof (IEC60529)
- Compact and lightweight
- Easy layout with laser theodolite

#### PACKAGE INCLUDES:

|                               |
|-------------------------------|
| Digital Theodolite            |
| Tribrach                      |
| Battery pack (4 AA batteries) |
| Carrying case                 |
| Plumb bob                     |
| Rain cover                    |
| Lens cleaning cloth           |
| Instruction manual            |

| Item           | Description                        | MSRP   |
|----------------|------------------------------------|--------|
| 73635 TOPDT207 | Topcon DT207 7" Digital Theodolite | \$3490 |
| 48496 TOPDT209 | Topcon DT209 9" Digital Theodolite | \$2590 |



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## ETH203 ELECTRONIC THEODOLITE

The NETH203 from Northwest Instruments is a 10" theodolite equipped with an incremental encoder to measure horizontal and vertical angles accurately and precisely. A double-sided keyboard comes standard on the ETH203 allowing quick and easy readouts. The powerful 30x telescope produces crystal clear images and the optical plummet allows for fast and accurate set-up.

### ETH203 Series Features:

- Dual keyboards
- Easy to operate
- 30x telescope
- Optical plummet
- Compact and lightweight

#### PACKAGE INCLUDES:

|                               |
|-------------------------------|
| Digital Theodolite            |
| Tribrach                      |
| Battery pack (5 AA batteries) |
| Carrying case                 |
| Plumb bob                     |
| Adjusting kit                 |
| Lens cleaning cloth           |
| Instruction manual            |

| Item            | Description                             | MSRP   | FLT PRICE |
|-----------------|---|--------|-----------|
| 96503 NWTETH203 | Northwest ETH203 10" Digital Theodolite | \$1795 | \$1395    |

**SAVE 23%**  
Off Mr's List



# AUTOMATIC LEVELS



## NA2/NAK2 ENGINEER'S LEVEL

Regarded as one of the finest auto levels ever designed, the NA2 universal automatic level meets all requirements regarding precision and reliability. It was designed by surveyors with years of experience who know how an instrument must perform. The NA2 can be used for all types of surveying jobs-even geodetic control at all levels of accuracy. The NAK2 has an internal glass circle for reading horizontal angles allowing for more detailed surveying work. Accuracy based on standard 1 km double run.

| Item          | Description                                  | MSRP   |
|---------------|--|--------|
| 32731 LCANA2  | Leica NA2 32x magnification, 0.7mm accuracy  | \$2195 |
| 21726 LCANAK2 | Leica NAK2 32x magnification, 0.7mm accuracy | \$2315 |

Call for the BEST QUOTE Today



## NA 700 SERIES LEVEL

The Leica NA700 series auto level is the most robust and reliable level on the market. The world renowned Leica optics come standard on all NA700 auto levels which allow a sharper contrast and brighter image giving you high precision and increasing your productivity. And the extremely short minimum focusing distance enables you to work in the tightest corners. Accuracy based on standard 1 km double run.

| Item           | Description                                   | FLT PRICE |
|----------------|---|-----------|
| 93875 LCANA720 | 20x telescopic magnification, 2.5 mm accuracy | \$495.00  |
| 20355 LCANA724 | 24x telescopic magnification, 2.0 mm accuracy | \$695.00  |
| 15237 LCANA728 | 28x telescopic magnification, 1.5 mm accuracy | \$895.00  |
| 62936 LCANA730 | 30x telescopic magnification, 1.2 mm accuracy | \$995.00  |

AS LOW AS \$495.00



Our best-selling auto level



## AL 200 SERIES

The Spectra Precision optical AL200 series auto levels are easy-to-use tools designed to deliver a level of accuracy for a wide range of applications. Featuring metal housing and easy-to read displays, the AL100 and AL200 series levels provide a combination of durability and economical price. Packages include: auto level, grade rod (inches), aluminum tripod.

| Item             | Description                        | MSRP  | FLT PRICE |
|------------------|------------------------------------|-------|-----------|
| 97468 TRMAL220   | 20x magnification, 2.5 mm accuracy | \$350 | \$329.00  |
| 36979 TRMAL220-2 | 20x level package                  | \$430 | \$395.00  |
| 85085 TRMAL224   | 24x magnification, 2.0 mm accuracy | \$440 | \$395.00  |
| 24328 TRMAL224-2 | 24x level package                  | \$520 | \$459.00  |
| 14636 TRMAL228   | 28x magnification, 1.5 mm accuracy | \$500 | \$449.00  |
| 88640 TRMAL232   | 32x magnification, 1.2 mm accuracy | \$560 | \$495.00  |



AS LOW AS \$329.00



## NCL SERIES

Northwest NCL series auto levels are easy-to-use and accurate. This instrument is ideal for leveling and grading applications including foundations and footers, concrete slabs, driveways, pools, and pipe laying. Angles can also be turned with 10 minute accuracy. A hard-shelled carrying case is included. Packages include auto level, aluminum tripod, 9' grade rod, carrying case, and instructions.

| Item            | Description                    | MSRP  | FLT PRICE |
|-----------------|--------------------------------|-------|-----------|
| 89899 NWTNCL22X | 22x auto level, 2.5mm accuracy | \$239 | \$179.00  |
| 10107 NWTNCL26X | 26x auto level, 1.5mm accuracy | \$299 | \$219.00  |
| 57381 NWTNCL32X | 32x auto level, 1.2mm accuracy | \$395 | \$269.00  |
| 44324 NWTNCLP26 | 26x auto level package         | \$375 | \$309.00  |

TRMAL224-2

TRMAL220



AS LOW AS \$179.00

NWTNCLP26

NWTNCL26X

# CONSTRUCTION INSTRUMENTS

## David White

### LT8-300 LINE TRANSFER UNIT

The LT8-300LTU with 360 degree telescope rotation allows you to see directly below the instrument for pipe laying applications.

#### SPECIFICATIONS:

26X telescope; Horizontal circle graduated in single degrees  
Glass reticle stadia (ratio of 1:100)  
Level-transit, plumb bob, carrying case and owner's manual  
Range: 400 feet (61m); Accuracy:  $\pm 3/16"$  @ 150 feet (5mm @ 46m)

| Item                 | Description                    | MSRP   | FLT PRICE |
|----------------------|--------------------------------|--------|-----------|
| 81445 DW LT8-300 LTU | David White line transfer unit | \$1133 | \$949.95  |



LT8-300 LTU



LT8-300 OP

### LT8-300 LEVEL-TRANSIT

A dependable 5 minute instrument for precise horizontal and vertical layout applications. The LT8-300 OP has all the features of the LT8-300 plus an optical plummet.

#### SPECIFICATIONS:

-26X telescope; Horizontal circle graduated in single degrees  
-Glass reticle stadia (ratio of 1:100)  
-Level-transit, plumb bob, carrying case and owner's manual  
-Range: 400 feet (61m); Accuracy:  $\pm 3/16"$  @ 150 feet (5mm @ 46m)

| Item                | Description                         | MSRP   | FLT PRICE |
|---------------------|-------------------------------------|--------|-----------|
| 96021 DW LT8-300    | Level transit w/out optical plummet | \$891  | \$769.95  |
| 40617 DW LT8-300 OP | Level transit with optical plummet  | \$1050 | \$899.95  |



### DAVID WHITE TRIPOD ADAPTER

This aluminum tripod adapter adapts older style 3 1/2" x 8 thread instruments to a modern 5/8" x 11 tripod.

| Item         | Description                | MSRP | FLT PRICE |
|--------------|----------------------------|------|-----------|
| 64939 NWT010 | David White tripod adapter | \$38 | \$32.95   |

## NW

### NSL100B BUILDERS LEVEL PACKAGE

This easy to use level is ideal for leveling foundations, patios, and grading applications such as streets, curbs, and landscape drainage. A hard-shelled carrying case is included. Package includes 20x level, aluminum tripod, 9' grade rod, carrying case, and instructions.

| Item         | Description                      | MSRP  | FLT PRICE |
|--------------|----------------------------------|-------|-----------|
| 98991 NWT100 | Northwest NSL100B level          | \$215 | \$179.00  |
| 51232 NWT100 | Northwest builders level package | \$320 | \$249.00  |

|                   |               |
|-------------------|---------------|
| NSL100B Level     |               |
| Magnification     | 20x           |
| Minimum focus     | 5 ft          |
| Stadia ratio      | 1:100         |
| Horizontal circle | 360 degrees   |
| Accuracy          | 1/4" @ 100 ft |

### NSL500B BUILDERS TRANSIT LEVEL PACKAGE

This accurate and easy-to-use transit level is ideal for leveling, turning angles and plumbing applications. Ideal for squaring up foundations, layout work, leveling foundations, running fence and pipe lines, and plumbing walls and columns. A hard-shelled carrying case is included. Package includes 20x Level-Transit, aluminum tripod, 9' grade rod, carrying case, and instructions.

| Item         | Description                     | MSRP  | FLT PRICE |
|--------------|---------------------------------|-------|-----------|
| 12794 NWT500 | Northwest NSL500B transit level | \$319 | \$249.00  |
| 26557 NWT500 | Northwest NSL500B package       | \$439 | \$299.00  |

|                   |               |
|-------------------|---------------|
| NSL500B Transit   |               |
| Magnification     | 20x           |
| Stadia ratio      | 1:100         |
| Horizontal circle | 360 degrees   |
| Accuracy          | 1/4" @ 100 ft |
| Transit           | +/- 45 deg    |



NWT100



NWT500

### NCL AUTO LEVEL PACKAGE

Northwest NCL series auto levels are easy-to-use and accurate. This instrument is ideal for leveling and grading applications including foundations and footers, concrete slabs, driveways, pools, and pipe laying. Angles can also be turned with 10 minute accuracy. A hard-shelled carrying case is included. Packages include auto level, aluminum tripod, 9' grade rod, carrying case, and instructions. Accuracy is based on a 150' shot.

| Item            | Description                              | MSRP  | FLT PRICE |
|-----------------|--|-------|-----------|
| 89899 NWTNCL22X | Northwest 22x auto level, 2.5mm accuracy | \$239 | \$179.00  |
| 10107 NWTNCL26X | Northwest 26x auto level, 1.5mm accuracy | \$299 | \$219.00  |
| 57381 NWTNCL32X | Northwest 32x auto level, 1.2mm accuracy | \$395 | \$269.00  |
| 44324 NWTNCLP26 | Northwest 26x auto level package         | \$375 | \$309.00  |

### NRL800 SELF-LEVELING LASER PACKAGE

The NRL800 Rotary Laser is self-leveling in both the horizontal and vertical axis and is a one-person leveling system designed for indoor and outdoor projects. It generates a bright beam horizontally and vertically. If tilted or jarred, the rotation and laser beam stops automatically until the height of the laser is verified. The NRL800 has a working range of 800 ft with a detector (included) with an accuracy of 1/8" @ 100 ft. A slope of +/- 5 degrees can also be set in the X or Y axis using the slope button. The NRL800 laser package includes the laser, detector, tripod, 9' laser rod (10ths or inches), carrying case, instructions and 1 yr warranty.

| Item             | Description              | MSRP   | FLT PRICE |
|------------------|--------------------------|--------|-----------|
| 36145 NWTNRL800  | Northwest NRL800 laser   | \$699  | \$599.00  |
| 92910 NWTNRL800P | Northwest NRL800 package | \$1018 | \$769.00  |

AS LOW AS  
**\$179.00**



NWTNCLP26



NWTNRL800P

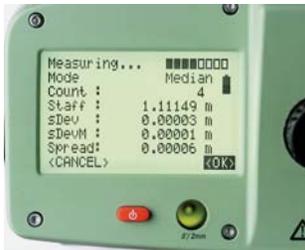
# DIGITAL LEVELS

**Leica** - when it has to be **right**  
**Geosystems**

## DNA DIGITAL LEVELS

Cut your time in half and eliminate costly errors using Leica's second generation digital levels! These digital levels have a large LC-Display, cutting edge electronic technology, and excellent optical and mechanical systems. The large LC-display presents measured data and shows the next step to take. The instrument allows you to save your work automatically in the internal memory and additionally, after the measurements have been taken, on a PCMCIA card. Leica Survey Office and LevelPak-Pro software are included and controls data exchange, code lists, line calculation, adjustment, and the creation of reports. Accuracy based on double km level run.

| Item            | Description                            | MSRP   |
|-----------------|--|--------|
| 27951 LCA723289 | DNA03 1.0mm accuracy                   | \$5490 |
| 42135 LCA726540 | DNA10 1.5mm accuracy                   | \$3990 |
| 21013 LCA522793 | GKNL4F 13.3' digital barcode level rod | \$315  |



LCA522793

**0% FINANCING AVAILABLE!**

**Leica** - when it has to be **right**  
**Geosystems**

## SPRINTER ELECTRONIC LEVEL

Measurements have never been so easy to perform with the new Leica Sprinter Electronic Level. The Sprinter is a reliable and accurate electronic level that provides error free measurements. The Leica Sprinter bar code automatically determines height (2mm accuracy) and distance (260' range) from the barcode rod. Simply aim and focus, measure with one key press and the data is displayed almost instantly. All measurements can be viewed and deleted onboard. The data can also be transferred to a personal computer simplifying the field to finish process. Package includes barcode rod, rechargeable NiCAD batteries, charger, and cable for downloading measurements. Accuracy based on double km level run.

| Item            | Description                               | MSRP   |
|-----------------|---|--------|
| 20823 LCA742857 | Sprinter 100M 2mm accuracy                | \$1295 |
| 25821 LCA741883 | 16' dual face; barcode rod & 10ths/100ths | \$80   |
| 37728 LCA741882 | 16' dual face; barcode rod & metric       | \$80   |

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LCA741882

# DATA COLLECTORS

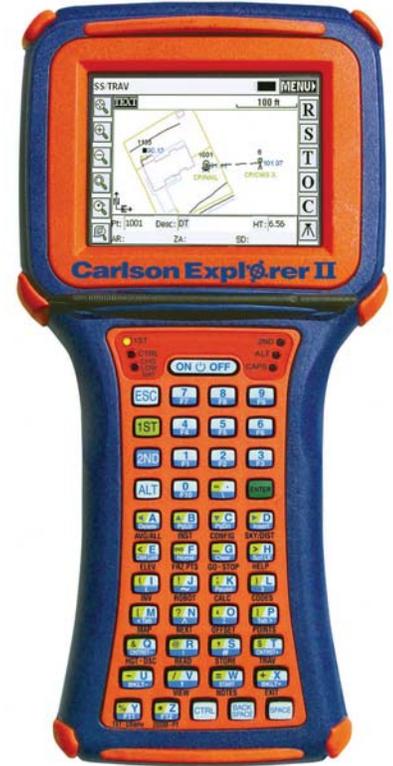


## CARLSON EXPLORER

### Features Include:

- Two models - the economical Explorer and the more powerful Explorer II
- Powerful performance - Explorer (400 Mhz Xscale processor), 128 Mb memory; Explorer II (400 Mhz Xscale processor), 256 Mb memory
- Windows CE.NET 4.2 professional operating system
- New and improved non-glare keyboard with handstrap and stylus (Explorer II)
- Improved weather resistance (IP65) to withstand wind-driven rain (Explorer II)
- 2 yr warranty

AS LOW AS  
**\$1749.00**



### EXPLORER

| Item              | Description   | FLT PRICE |
|-------------------|---|-----------|
| 38543 CSW6000.601 | Explorer 400 Mhz, 128 Mb w/ SurvCE Total Station                | \$1749    |
| 19272 CSW6000.602 | Explorer 400 Mhz, 128 Mb w/ SurvCE Total Station w/ Adv Roading | \$2295    |
| 79758 CSW6000.603 | Explorer 400 Mhz, 128 Mb w/ SurvCE Total Station w/ Robotics    | \$2295    |
| 76865 CSW6000.605 | Explorer 400 Mhz, 128 Mb w/ SurvCE GPS                          | \$2795    |

### EXPLORER II

| Item              | Description   | FLT PRICE |
|-------------------|---|-----------|
| 17703 CSW6000.610 | Explorer 400 Mhz, 256 Mb w/ SurvCE Total Station                | \$2295    |
| 56326 CSW6000.611 | Explorer 400 Mhz, 256 Mb w/ SurvCE Total Station w/ Adv Roading | \$2795    |
| 90182 CSW6000.612 | Explorer 400 Mhz, 256 Mb w/ SurvCE Total Station w/ Robotics    | \$2795    |
| 15850 CSW6000.614 | Explorer 400 Mhz, 256 Mb w/ SurvCE GPS                          | \$3295    |

## CARLSON EXPLORER 600+

### Features Include:

- High speed 624 Mhz Xscale processor
- More memory - 512 Mb flash memory
- Windows CE.NET 5.0 professional operating system
- Improved weather resistance (IP65) to withstand wind-driven rain
- Bright Display - QVGA-TFT color, sunlight readable touch screen
- 2 yr warranty

### EXPLORER 600+

| Item              | Description                                       | FLT PRICE |
|-------------------|---|-----------|
| 16573 CSW6000.803 | Explorer 600+ Mhz, 512 Mb w/ SurvCE Total Station | \$2975    |
| 86242 CSW6000.807 | Explorer 600+ Mhz, 512 Mb w/ SurvCE GPS           | \$3995    |



AS LOW AS  
**\$2975.00**

### CARLSON ACCESSORIES

| Item                  | Description   | MSRP  | FLT PRICE |
|-----------------------|---|-------|-----------|
| 58615 TDS148WDCAB     | Connects Leica instruments to Carlson data collectors         | \$80  | \$70.00   |
| 55792 TDS148LTZCAB    | Connects Topcon/Sokkia instruments to Carlson data collectors | \$80  | \$70.00   |
| 24233 TDSRGR-CNULLCAT | Connects Carlson data collectors to PC (9-pin)                | \$20  | \$15.00   |
| 46899 CSW6100.001     | Carlson 1650mAh battery pack                                  | \$85  | \$75.00   |
| 42622 CSW6100.433     | Carlson 2500mAh battery pack                                  | \$110 | \$105.00  |
| 23219 SEC5196-07      | Seco aluminum tripod bracket for Carlson Explorer             | \$50  | \$44.95   |
| 45259 CSW6100.014     | Carlson AC wall charger                                       | \$40  | \$35.00   |
| 44748 CSW6100.010     | Carlson screen protectors                                     | \$20  | \$17.00   |
| 66849 CSW6100.013     | Carlson stylus (pack of 3)                                    | \$10  | \$8.00    |

# DATA COLLECTORS



## TDS RECON

### Features Include:

- Two models - the economical Recon NX-Series (no CF slots) and the more powerful Recon X-Series
- Bluetooth and 802.11g wireless available
- More flash memory - 128Mb (Recon 400NX) and 256Mb (Recon 400X)
- Powerful performance - 400 Mhz Xscale processor
- Meets military specifications (MIL-STD-810F) for drops, vibration, and weather resistance (IP67)

### RECON NX-Series

| Item                   | Description                          | FLT PRICE |
|------------------------|--------------------------------------|-----------|
| 30357 TDSRE3-SY4CMN-SS | Recon 400NX 400 Mhz, Survey Standard | \$1495    |
| 59475 TDSRE3-SY4CMN-SP | Recon 400NX 400 Mhz, Survey Pro      | \$1895    |

### RECON X-Series

| Item                   | Description                         | FLT PRICE |
|------------------------|-------------------------------------|-----------|
| 34011 TDSRE3-SY4CMB-SS | Recon 400X 400 Mhz, Survey Standard | \$1695    |
| 78255 TDSRE3-SY4CMB-SP | Recon 400X 400 Mhz, Survey Pro      | \$2095    |



AS LOW AS  
**\$1495.00**

## TDS RANGER

### Features Include:

- Two models - the economical Ranger NX-Series and the more powerful Ranger X-Series
- Bluetooth and 802.11g wireless included (Ranger X-Series only)
- Meets military specifications (MIL-STD-810F) for drops, vibration, and weather resistance (IP67)
- Windows operating system with large screen and keyboard
- Flash memory - 128Mb (Ranger NX); 256Mb (Ranger 300X); 256 Mb (Ranger 500X). Expandable CompactFlash (CF) slots for additional memory (Ranger X-Series only)
- Data is kept safe with sealed CompactFlash (CF) slots designed to keep out water and dirt (Ranger X)

### RANGER NX-Series

| Item                    | Description                        | MSRP   |
|-------------------------|------------------------------------|--------|
| 64838 TDSST2-SY3BMXA-SS | Ranger NX 312 Mhz, Survey Standard | \$2249 |
| 25844 TDSST2-SY3BMXA-SP | Ranger NX 312 Mhz, Survey Pro      | \$2399 |

### RANGER X-Series

| Item                    | Description   | MSRP   |
|-------------------------|---|--------|
| 71279 TDSST2-SY3CMBB-SS | Ranger 300X 312 Mhz, Survey Standard (Bluetooth)            | \$2899 |
| 84493 TDSST2-SY3CMBB-SP | Ranger 300X 312 Mhz, Survey Pro (Bluetooth)                 | \$3299 |
| 32229 TDSST2-SY5GMBB-SP | Ranger 500X 512 Mhz, Survey Pro (Bluetooth)                 | \$3799 |
| 46375 TDSST2-SY5GMBB-SM | Ranger 500X 512 Mhz, Survey Pro, GPS & Robotics (Bluetooth) | \$5099 |

### RECON and RANGER ACCESSORIES

| Item                      | Description   | FLT PRICE |
|---------------------------|---|-----------|
| 58615 TDS148WLD CAB       | Connects Leica instruments to TDS data collectors         | \$70.00   |
| 55792 TDS148LTZ CAB       | Connects Topcon/Sokkia instruments to TDS data collectors | \$70.00   |
| 24233 TDSRGR-CNULLCAT     | Connects TDS data collectors to PC (9-pin)                | \$15.00   |
| 68392 TDSREC-APOWERBOOT   | NIMH Recon power boot module                              | \$95.00   |
| 76912 TDSREC-ABRACKET     | Recon tripod bracket                                      | \$50.00   |
| 43853 TDSREC-AN1POWERSUP  | Recon AC power supply and charger                         | \$20.00   |
| 93972 TDSREC-AAVCHR12VCBL | Recon vehicle charger cable                               | \$35.00   |
| 25308 TDSREC-S STYLUS     | Recon stylus pen (3-pack)                                 | \$6.00    |
| 10243 TDSREC-AUSCBL       | USB cable for Recon/Ranger                                | \$15.00   |
| 95680 TDSREC-SLCDPROTECT  | Recon screen protectors (pack of 10)                      | \$10.00   |
| 39555 TDSRGR-ALCDPEELOFF  | Ranger screen protectors (pack of 10)                     | \$10.00   |
| 19029 TDSRGR-BRACKET      | Ranger tripod bracket                                     | \$80.00   |
| 88104 TDSRGR-S-ARECHARGER | TDS Ranger AC charger                                     | \$60.00   |



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**BEST QUOTE**  
Today

# DATA COLLECTORS & CALCULATORS

## ALLEGRO CX/RCS

### Features Include:

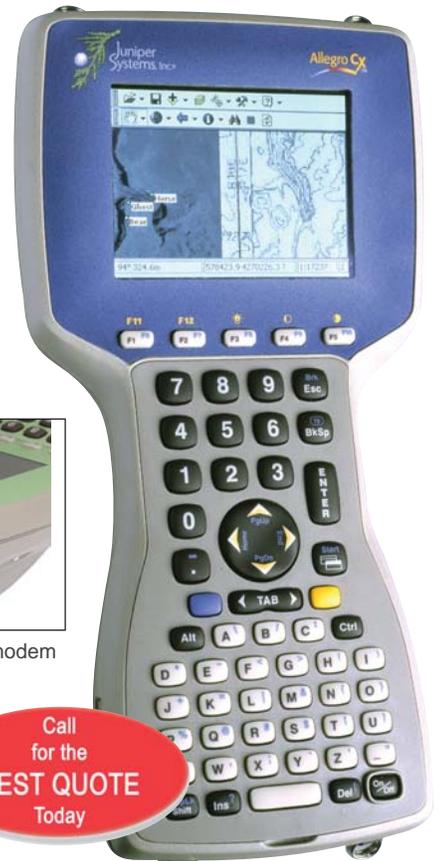
- Two models - the Allegro CX and the Allegro CX/RCS with built-in radio modem for robotic total stations
- Ultra-ruggedized - The most rugged and shock resistant data collector on the market utilizing gaskets which completely seal the unit (Yes, it floats!)
- Proven spread spectrum radio technology (RCS version) makes this the lightest, cleanest robotic system available
- Monochrome display option - offers 18% more viewing area making applications easier to see
- Powerful performance - Intel 400 Mhz Xscale processor provided speed and performance
- Secure data storage - 128 Mb, 512 Mb, and 1 G of non-volatile flash memory
- Windows CE.NET 4.2 professional operating system

### ALLEGRO CX/RCS

| Item             | Description  | MSRP   |
|------------------|--|--------|
| 29950 LCA8215667 | Allegro CX Monochrome display 64 MB RAM/128 MB storage | \$2475 |
| 97420 LCA8215669 | Allegro CX Color display 64 MB RAM/128 MB storage      | \$2775 |
| 53974 LCA8218015 | Allegro CX Color display 128 MB RAM/512 MB storage     | \$3475 |
| 87571 LCA8215668 | Allegro CX/RCS Monochrome display 64 MB/128 MB storage | \$4995 |
| 88315 LCA8215670 | Allegro CX/RCS Color display 64 MB RAM/128 MB storage  | \$5250 |
| 59640 LCA8216775 | Allegro CX/RCS Color display 128 MB RAM/512 MB storage | \$5975 |



Allegro CX/RCS radio modem (optional)



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### Software Options

| Item             | Description                          | MSRP   |
|------------------|--------------------------------------|--------|
| 11143 LCA8212081 | Carlson SurvCE Total Station         | \$995  |
| 54359 LCA8212084 | Carlson SurvCE Robotic Total Station | \$1495 |
| 76069 LCA8212085 | Carlson SurvCE GPS                   | \$1995 |
| 52700 LCA8212086 | Carlson SurvCE Complete              | \$2495 |



## Construction Calculators

Find accurate, time and money saving tools from the leading manufacturer of specialty construction calculators, including the Construction Master Pro, distance measuring tools and estimating devices. Get accurate, time and money saving results.

| Item           | Description                                   | MSRP  | FLT PRICE |
|----------------|---|-------|-----------|
| 31234 CAL4065  | Construction Master Pro Advanced Construction | \$80  | \$72.95   |
| 45865 CAL4225  | Concrete Calculator Pro                       | \$70  | \$64.95   |
| 87978 CAL44080 | Construction Master Pro Desktop               | \$100 | \$74.95   |
| 87466 CAL4080  | Construction Master Pro Trig III              | \$100 | \$74.95   |
| 72305 CAL4020  | Measure Master Pro                            | \$40  | \$36.95   |



CAL4080



CAL4065



CAL4225

AS LOW AS **\$36.95**



CAL4020



CAL44080

## Scale Master

Perform Instant Linear, Rectangular Area and Volume Takeoffs; 72 Built-in Scales - Architectural, Engineering, Map Metric; Small, Lightweight and Totally Portable; Use it Like a Pen - Just Roll and Measure; Easy-to-Read Display Shows Measurement in Feet-Inches, Metric and Other Dimensional Units; Convert Between Scales and Dimensions; Custom Scales for Plans that are Reduced/Enlarged; Calculate Rectangular Area/Volumes (LxWxH); PC Interface kit is available for the Scalemaster II to transfer rolled values from the Scale Master II directly into commonly used spreadsheets or estimating programs.

| Item          | Description                   | MSRP  | FLT PRICE |
|---------------|-------------------------------|-------|-----------|
| 51604 CAL6020 | Scale Master Classic          | \$70  | \$64.95   |
| 94346 CAL6130 | Scale Master II               | \$100 | \$92.95   |
| 37699 CAL6215 | Scale Master II Interface Kit | \$80  | \$73.95   |



CAL6020



CAL6215

# DATA COLLECTION & PC SOFTWARE



## CARLSON SURVEY 2008

Carlson Survey is now available in two forms: Inside AutoCAD® or AutoCAD® Inside. And the standalone Carlson Survey now matches all major features of the inside AutoCAD® version. Both include SurvNET Network Least Squares, now essential for survey adjustment. Carlson Survey 2007 has been designed to run inside AutoCAD 2007. It will also install and work inside AutoCAD 2006, 2005, 2004, 2002 and even 2000. It is so versatile that it also installs and works with the newest and even older versions of AutoCAD Map, Land Desktop and Civil 3D. We've even added a new Network Least Squares program called SurvNET.

Carlson Survey 2008 combines the surveyor's private language of point-based coordinate geometry (or COGO) commands within the AutoCAD drawing environment better than any other survey software in AutoCAD. Using Carlson Survey 2007, surveyors can download and upload to all popular field data collectors, process raw field data, check closures, adjust field data and map by Field-to-Finish using field coding. The surveyor can also input, rotate and translate boundaries, perform lot layouts, calculate and label areas and execute flawless curve data and line work labeling. Surveyors will use the point-based CAD/COGO commands found in Carlson Survey 2008 extensively as these CAD/COGO commands are the essence of the surveyor's private professional survey language.

| Item              | Description                                     | FLT PRICE |
|-------------------|---|-----------|
| 71963 CSW1000.020 | Carlson Survey 2008 Stand-Alone                 | \$1995.00 |
| 20611 CSW2000.899 | Carlson Survey 2008 add-on software for AutoCAD | \$1459.00 |

## CARLSON CIVIL 2008

Carlson Civil 2008 is designed for civil engineers by civil engineers, based on 23 years of experience in the software industry serving this market. Carlson Civil 2008 takes the lessons of these years in civil feature development, adds in the comprehensive experience in the overlapping markets of survey, construction and mining, and distills the highest level of robust automation and ease-of-use of any civil design solution available today. As part of the new Carlson 2008 product line, Carlson Software has also introduced the Carlson Civil Suite 2008. This new, powerful bundle is made up of: Carlson Survey 2008, Carlson Civil 2008, Carlson Hydrology 2008 and Carlson GIS 2008.

| Item              | Description              | FLT PRICE |
|-------------------|--------------------------|-----------|
| 52924 CSW2000.826 | Carlson Civil 2008       | \$1465.00 |
| 99053 CSW2000.825 | Carlson Civil 2008 Suite | \$3495.00 |

## CARLSON SURVCE 2.0

New Carlson SurvCE 2.0 combines advanced functionality, ease-of-use, and sheer capability to make it the first choice in data collection software. Carlson SurvCE 2.0 is a complete data collection system for Real Time (RTK) GPS and Total Stations with in-field coordinate geometry. It supports the widest range of popular and new release RTK GPS and conventional/ robotic total stations.

| Item              | Description                        | FLT PRICE |
|-------------------|------------------------------------|-----------|
| 79625 CSW6501.001 | Carlson SurvCE 2.0 (Total Station) | \$995.00  |

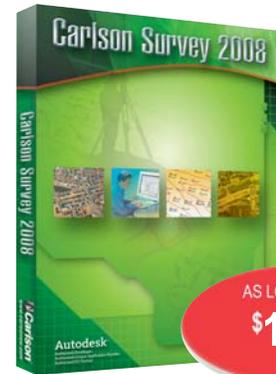
## TDS FORESIGHT

TDS ForeSight computer-aided office surveying software helps you analyze, adjust, plot and manage your field data so you can prepare for your project's next phase. ForeSight's easy-to-use tools help you complete your projects faster and easier-at the office and in the field. ForeSight's expanded CAD tools include basic point editing, DTM surfaces and road layouts. You can use ForeSight to produce complete, artistic plats. And ForeSight gives you multiple recording and exporting options-including AutoCAD DXF and DWG files.

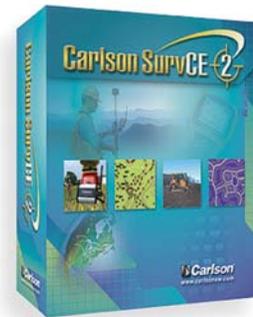
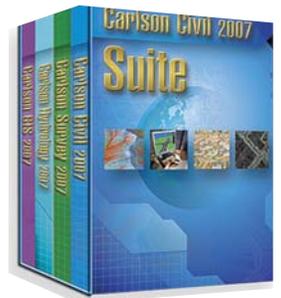
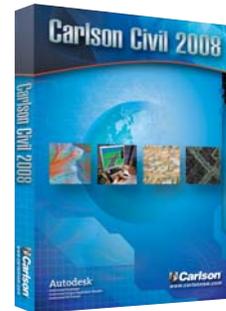
| Item               | Description                     | FLT PRICE |
|--------------------|---------------------------------|-----------|
| 74252 TDSFORESIGHT | Basic COGO and Drafting Package | \$949.00  |

## CARLSON TAKEOFF 2007

Carlson Takeoff is the most complete and powerful site estimating software on the market -- available as an AutoCAD-based stand-alone product or as a module of Carlson SurvCADD. Carlson Takeoff offers critical Drawing Cleanup features and advanced 2D to 3D routines that streamline the estimating process. It can input all data formats, including DWG, DXF, LandXML, and all formats of Centerline, Profiles, and Section Data. Takeoff calculates cut/fill material volumes and has 3D simulation as well as comprehensive reporting. In addition, roadwork, trenching, drill-holes, and sub-grades capabilities are all included for one affordable price.



AS LOW AS  
**\$1459.00**



AS LOW AS  
**\$949.00**



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Today

## Geo Office Surveying and Engineering Software

Exploit the full potential of your data with LEICA Geo Office. View and manage your TPS, GPS and Level data in an integrated way. Process independently or combine your data. LEICA Geo Office ensures you get the best result.

All components have a similar look and feel and interact seamlessly with each other. GPS, TPS and level data are handled in a similar way with standardized tools and dataflow. The embedded HELP contains useful tutorials and provides advice and information whenever needed. LEICA Geo Office assists you at every step.

LEICA Geo Office includes the following standard functionality:

- Data Management
- View and Edit
- Flexible Reporting
- Flexible Import and Export
- Tools for GPS, TPS and levels



### DATA MANAGEMENT

The different management components for projects, coordinate systems, GPS antennas, report templates etc. provide a very logical separation of important information and a clear overview of all data. They enable you to manage your data and work easily and efficiently in a consistent manner. Choose the way you want to work. Configure and set the software for your preferences and requirements. Set panels and screens to display the information that you need and in the formats you prefer. Define import and export masks for the way you have to handle data.

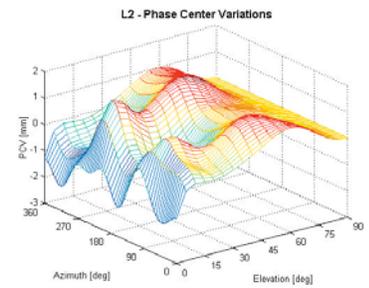
### COORDINATE TRANSFORMATIONS (Optional)

LEICA Geo Office has a complete range of libraries and tools for defining coordinate systems and transforming coordinates from one system to another: libraries of ellipsoids, projections and geoidal models, as well as six different transformation methods that give you the flexibility to select the transformation technique that suits your project best.

Convert ellipsoidal to orthometric heights and vice versa using imported and user defined geoidal models. A special feature of LEICA Geo Office is the support of country specific coordinate systems that are based on grids of correction values for the conversion of WGS84 to local coordinates. With the LEICA Geo Office coordinate management component and transformation module you can work in any system, WGS84 or local coordinates, and convert easily from one to the other.

### GPS POST PROCESSING (Optional)

This module processes all types of GPS raw data. One of the main applications is the classical processing of baselines in geodetic control networks. It is also used for processing kinematic data, especially for "filling in gaps" when RTK coordinates are not available due to breaks in the radio link. As well as utilizing the integrity checks in the GPS1200 field system, LEICA Geo Office post processing allows extended user control over what has to be processed and how it is processed. For routine baseline computations, processing can be set to run fully automatically using default settings. For critical lines or special investigations, processing can be manually controlled, in which case advanced users have ample scope to set parameters and use their own processing scenarios. Results Manager contains a range of graphical analysis tools and report logs that allow the results to be viewed and examined in depth before they are accepted and stored.



# HP48 SOFTWARE

## TDS SURVEY PRO for HP48GX

Survey Pro gives is fast, reliable and easy to use, so you can work more productively in the field. Survey Pro adds several advanced features to Survey Standard like intuitive and powerful slope staking and road layout routines. You can also view DTM files, stake using the DTM surface and collect feature/attribute data, helping you save time in the field and in the office.

| Item               | Description           | MSRP  | FLT PRICE |
|--------------------|-----------------------|-------|-----------|
| 14966 TDS48SURVPRO | Survey Pro for HP48GX | \$799 | \$639.00  |

## TDS SURVEY STANDARD for HP48GX

Survey Standard is complete data collection software for surveyors. You can get a complete COGO suite including triangle solutions, map check and predetermined area, as well as traverse, sideshot and staking routines. And you can easily upgrade Survey Standard to any other Survey Pro level.

| Item          | Description                | MSRP  | FLT PRICE |
|---------------|----------------------------|-------|-----------|
| 90550 TDS48GX | Survey Standard for HP48GX | \$699 | \$545.00  |

## TDS COGO FOR HP48GX

TDS COGO is the perfect supplemental tool for surveyors. TDS COGO's intuitive graphical interface enables you to easily move on to more advanced TDS surveying software—with TDS you can always move up to more advanced software as your needs change.

| Item             | Description          | MSRP  | FLT PRICE |
|------------------|----------------------|-------|-----------|
| 30652 TDSCOGO-48 | Cogo Card for HP48GX | \$249 | \$209.00  |

## TDS FORESIGHT DXM for HP48GX

TDS ForeSight DXM (Data eXchange Manager) computer-aided office surveying software lets you bridge the data management gap between field data collection and computer-aided design (CAD) software. ForeSight DXM allows easy data transfer from Survey Pro software to a laptop or PC so you can display survey data graphically. It also helps you manage project files, checks data for accuracy and prepares data for CAD development.

| Item               | Description                        | MSRP  | FLT PRICE |
|--------------------|------------------------------------|-------|-----------|
| 39356 TDSPCS-FSDXM | Foresight DXM w/ USB lock          | \$399 | \$359.00  |
| 55149 TDS512KGX    | 512k RAM card for HP48GX           | \$199 | \$179.00  |
| 24292 TDS1MEG      | 1 Mb RAM card for HP48GX           | \$299 | \$269.00  |
| 42033 TDS148       | Environmental hard case for HP48GX | \$99  | \$89.00   |



# PRISMS



## CST/berger

### UNIVERSAL SERIES PRISMS

Universal series single tilting prism with metal (aluminum) yoke features 0/-30mm offset and precision ground glass up to 2 arc seconds. Lifetime warranty (aluminum yoke only). Available in chartreuse/black (shown), orange/white, and yellow/black.

| Item              | Description                               | MSRP  | FLT PRICE |
|-------------------|---|-------|-----------|
| 90757 CHI63-2010  | Single tilt prism assembly, plastic yoke  | \$178 | \$112.95  |
| 59328 CHI63-2010M | Single tilt prism assembly, aluminum yoke | \$183 | \$119.95  |
| 78335 CHI63-2012M | Metal yoke and target only                | \$81  | \$67.95   |
| 48490 CHI63-2015  | Target only for 63-2010(M)                | \$36  | \$33.95   |
| 43495 CHI63-2011  | 2 1/2" prism in canister for 63-2010(M)   | \$124 | \$104.95  |

### RETRO PRISMS

Single and triple "retro" prisms use aluminum holders which are precisely machined and electrostatically painted for a long-lasting finish. Each prism is encased in a rugged Lexan container. Red and white sighting pole is included. -30mm offset.

| Item             | Description                           | MSRP  | FLT PRICE |
|------------------|---------------------------------------|-------|-----------|
| 14648 CHI64-2010 | Single prism assembly, aluminum mount | \$189 | \$115.95  |
| 75630 CHI64-2000 | Triple prism assembly, aluminum mount | \$442 | \$299.00  |
| 33462 CHI64-2012 | Single prism assembly mount only      | \$80  | \$69.95   |
| 53744 CHI64-2013 | Triple prism assembly mount only      | \$92  | \$75.95   |
| 72150 CHI64-2011 | Retro prism in lexan container        | \$145 | \$102.95  |
| 33773 CHI64-2018 | Lexan container only                  | \$22  | \$19.00   |
| 25937 CHI64-2017 | Sighting pole                         | \$16  | \$13.95   |

### LEICA COMPATIBLE PRISMS

Leica compatible "snap in" prism. GPH1 type coaxial single tilting copper-coated prism with lexan GZT4 type target. Push-button mounting -34mm offset with Leica type H.I.

| Item             | Description                       | MSRP  | FLT PRICE |
|------------------|-----------------------------------|-------|-----------|
| 24900 CHI63-3020 | Tilting prism with coaxial target | \$229 | \$199.95  |
| 61845 CHI63-3023 | Tilting prism with fixed target   | \$300 | \$199.95  |

### PEANUT PACK MINI PRISMS

Leica compatible "snap in" prism. GPH1 type coaxial single tilting copper-coated prism with lexan GZT4 type target. Push-button mounting -34mm offset with Leica type H.I.

| Item               | Description                                 | MSRP  | FLT PRICE |
|--------------------|---|-------|-----------|
| 85368 CHI65-1500   | Plastic prism assembly                      | \$159 | \$119.95  |
| 73617 CHI65-1500M  | Metal Prism assembly                        | \$180 | \$129.95  |
| 44089 CHI65-1505RL | Reflective mini prism for short range shots | \$85  | \$79.95   |



### PRISM BAGS AND ADAPTERS

SECO bags & cases are made to exacting standards from heavy-duty, water-repellent, 1000 denier nylon. These nylon bags are heavily padded for prisms, tribrachs, and prism/target assemblies.

| Item               | Description                           | MSRP | FLT PRICE |
|--------------------|---------------------------------------|------|-----------|
| 22179 FLTPRISM BAG | Triple prism bag 12" x 10"            | \$35 | \$20.95   |
| 98028 SEC8130      | Extra tall triple prism bag 18" x 10" | \$59 | \$46.95   |
| 96565 CHI61-2525   | CST rotating tribrach adapter         | \$59 | \$45.95   |
| 84923 SEC2020      | Rotating tribrach adapter             | \$84 | \$57.95   |



FLTPRISM BAG

SEC8130

CHI61-2525

SEC2020



### CIRCULAR PRISMS

The GPR1 is Leica's standard round prism. The glass is cut and polished to high surface accuracy and coated with a copper surface for improved reflectivity. -34mm offset.

| Item            | Description                                 | FLT PRICE |
|-----------------|---|-----------|
| 42382 LCA362830 | GPR1 single circular prism in container     | \$240.00  |
| 28184 LCA362820 | GPH1 prism holder, fiber reinforced polymer | \$70.00   |
| 74347 LCA362823 | GZT4 prism target plate for GPH1            | \$55.00   |

### FLAT PRISMS

The CPR105 flat prism provides back-to-back reflectors, both having 0 offsets. One side is a cat-eye type reflector with a similar distance range as a mini prism with both infrared and reflectorless EDM. The other side is a reflective tape with target lines for close measurements. The prism has two 1/4" threads and requires an adapter if mounting on a pole or rod.

| Item            | Description       | FLT PRICE |
|-----------------|-------------------|-----------|
| 36945 LCA731346 | CPR105 flat prism | \$59.95   |

### 360 DEGREE PRISMS

This 360° prism consists of six individual prisms joined together. The arrangement allows the measuring beam to reflect directly back to its source evenly from any position on the prism set. The even distribution of the prisms provides similar offset and accuracy readings from any side. molded into a fiber-reinforced housing. -11 mm offset with Leica mounting stud.

| Item            | Description                  | FLT PRICE |
|-----------------|------------------------------|-----------|
| 40892 LCA639985 | GRZ4 360 degree reflector    | \$990.00  |
| 49189 LCA644327 | GRZ101 360 degree mini prism | \$630.00  |

### MINI PRISM WITH STAKEOUT POLE

Leica mini prism with 4 screw-on aluminum rods permitting five different prism heights and easy construction stakeout. -16 mm offset.

| Item            | Description                    | FLT PRICE |
|-----------------|--------------------------------|-----------|
| 61167 LCA641615 | GMP111 Basic series mini prism | \$249.95  |



LCA362830 w/ GPH1 and GZT4

LCA731346

LCA639985

LCA644327

LCA667216

LCA641615



### TRIBRACH ADAPTERS

Leica's GRT144 tribrach adapter is ideal for GPS antennas, and prisms

| Item            | Description                                  | FLT PRICE |
|-----------------|--|-----------|
| 91137 LCA667216 | GRT146 tribrach adapter with 5/8" x 11 screw | \$110.00  |
| 22133 LCA667313 | GRT146 tribrach adapter with Leica stud      | \$115.00  |

# PRISM POLES & BIPODS



TRUR.P. TRIPOD



CHI67-4250X



CHI67-4260X



SEC5217-04



## PRISM POLES/BIPODS/ADAPTERS

Seco's lightweight quick change prism poles are designed to be compatible with all targets, prisms, and GPS antennas. By using the correct SECO adapter a correct target height can be achieved with any pole in the 'Quick Change' series. The 'Quick Change' pole system features the TLV™ locking system with a 40-minute vial built in, dual metric/10ths graduation, and is available with or without a locking pin.

| Item             | Description                                      | MSRP  | FLT PRICE |
|------------------|--|-------|-----------|
| 38483 SEC5507-15 | 8.5' aluminum pole without locking pin           | \$170 | \$159.95  |
| 47800 SEC5507-16 | 8.5' carbon fiber pole with locking pin          | \$270 | \$249.95  |
| 21749 SEC5507-17 | 8.5' carbon fiber pole without locking pin       | \$280 | \$259.95  |
| 29538 SEC5010-00 | 1' mini stakeout pole                            | \$80  | \$69.95   |
| 65357 SEC5195    | Prism pole adjusting jig                         | \$55  | \$49.95   |
| 45445 SEC2090-10 | Leica GPH1 quick change prism adapter            | \$22  | \$16.00   |
| 92794 SEC2080    | Adapts Leica prisms to 5/8" x 11 thread          | \$22  | \$19.95   |
| 49480 SEC2090    | Adapts 5/8" x 11 prism to Leica style prism pole | \$27  | \$25.95   |
| 76226 SEC5191    | Topo shoe for prism poles                        | \$13  | \$9.95    |
| 97346 SEC5192    | Extra-wide topo shoe for prism poles             | \$25  | \$21.50   |
| 76975 SEC5217-04 | Seco thumb release bipod                         | \$167 | \$136.95  |



## CRAIN SURVEYING PRODUCTS

### PRISM POLES

Crain's composite pole is constructed of lightweight composite fiberglass. The Grip-Tite locking system prevents slipping and eliminates errors. The pole is imprinted with permanent 10ths and metric graduations, circular level vial, self-storing Topo Boot replaceable steel point, and an 5/8" x 11 mounting stud.

| Item           | Description                                       | MSRP  | FLT PRICE |
|----------------|---|-------|-----------|
| 98022 MND90280 | 8' quick clamp prism pole with 5/8 x 11 stud      | \$200 | \$149.95  |
| 59681 MND90282 | 12' quick clamp prism pole with 5/8 x 11 stud     | \$264 | \$196.95  |
| 93756 MND91605 | Ultra lightweight prism pole/GPS rover pole point | \$21  | \$19.95   |



### PRISM POLES

Leica's Professional Series GLS11 Prism Pole is constructed with high-quality aluminum and superior components making it one of the lightest prism poles on the market at 1.3 lbs. The pole extends to 7.1 ft. and is imprinted with permanent 10ths and metric graduations. It comes with a circular level vial, and hardened aluminum point.

| Item            | Description                                      | FLT PRICE |
|-----------------|--|-----------|
| 46986 LCA385500 | 7' prism pole with compression clamp, Leica stud | \$195.00  |

## CST/berger BIPODS/TRIPODS

| Item                 | Description                             | MSRP  | FLT PRICE |
|----------------------|---|-------|-----------|
| 74161 CHI67-4260X    | Bipod, thumb release                    | \$140 | \$112.95  |
| 51516 CHI67-4260     | Bipod, quick release                    | \$135 | \$112.95  |
| 57343 CHI67-4250X    | Tripod, thumb release                   | \$180 | \$169.95  |
| 76565 TRUR.P. TRIPOD | Heavy-duty prism pole/range pole tripod | \$90  | \$69.95   |

## ALUMINUM PRISM POLES/BIPODS

CST's **Quick-Lok** prism poles employs a unique clamping system to create a tight clamp and the Collet Lock pole features a mechanism that clamps the pole when turned by the hand. Both prism poles feature sturdy aluminum imprinted with 10ths and metric graduations. Each pole includes a circular level vial, steel point, and an 5/8" x 11 mounting stud (TMA style) or Leica stud (TML style). CST's **Maxi-Lite** prism pole weighs only 2.1 lbs and utilizes a soft rubber knob making it easy to tighten or loosen the pole. The prism pole has 10ths and metric graduations, circular level vial, steel point, and an 5/8" x 11 mounting stud.

| Item                | Description   | MSRP  | FLT PRICE |
|---------------------|---|-------|-----------|
| 87007 CHI67-4508TMA | 8', 2 section Quick-Lok, 5/8" x 11 stud             | \$155 | \$89.95   |
| 30904 CHI67-4512TMA | 12', 3 section Quick-Lok, 5/8" x 11 stud            | \$185 | \$119.95  |
| 89077 CHI67-4515TMA | 15', 4 section Quick-Lok, 5/8" x 11 stud            | \$240 | \$185.95  |
| 32527 CHI67-4508TML | 8', 2 section Quick-Lok, Leica stud                 | \$155 | \$89.95   |
| 17408 CHI67-4515TML | 15', 4 section Quick-Lok, Leica stud                | \$235 | \$185.95  |
| 99692 CHI67-4209TMA | 8', 2 section Collet Lock, 5/8" x 11 stud           | \$160 | \$113.95  |
| 19386 CHI67-4512TML | 12', 3 section Quick-Lok, Leica stud                | \$180 | \$134.95  |
| 27541 CHI67-4212TMA | 12', 3 section Collet Lock, 5/8" x 11 stud          | \$192 | \$136.95  |
| 87775 CHI67-4708TMA | Maxi-Lite 8', 2 section Screw Clamp, 5/8" x 11 stud | \$147 | \$109.95  |
| 61622 CHI67-4712TMA | Maxi-Lite 12', 3 section Screw Clamp 5/8 x 11 stud  | \$185 | \$139.95  |
| 36658 CHI68-3740    | CST hardened steel prism pole point                 | \$10  | \$7.95    |



SEC5010-00 SEC5507-17 SEC5507-15 CHI67-4708 CHI67-4209 MND90280 CHI67-4508 LCA385500

# TRIPODS



## CRAIN SURVEYING PRODUCTS

Crain's combination of durability and value has made its wood/fiberglass tripod a best-seller.

| Item           | Description   | MSRP  | FLT PRICE |
|----------------|---|-------|-----------|
| 72834 MND22217 | Wood fiberglass, quick clamp 5/8" x 11 stud, 72.5" open, 42" closed, 17 lb.                   | \$183 | \$134.95  |
| 93846 MND22219 | Wood fiberglass, dual clamp (clamp & wing nut) 5/8" x 11 stud, 72.5" open, 42" closed, 17 lb. | \$197 | \$144.95  |

## CST/berger

Another best-selling tripod. A combination of hard maple legs with fiberglass dowels gives these wood/fiberglass tripods extra stability and guards against shrinking and swelling. CST's heavy-duty aluminum tripods offer rigidity and strength. Extension legs are anodized silver to resist corrosion. All metal parts are powder painted to prevent corrosion. Shoulder strap is included.

| Item               | Description   | MSRP  | FLT PRICE |
|--------------------|---|-------|-----------|
| 55156 CHI60WDF20   | Wood fiberglass, quick clamp 5/8" x 11 stud, 72" open, 42" closed, 16 lb.             | \$188 | \$129.95  |
| 44520 CHI60WDW20HV | All wood, wing nut clamp 5/8" x 11 stud, 72" open, 42" closed, 17 lb.                 | \$199 | \$139.95  |
| 38909 CHI60ALW20   | Heavy-duty aluminum, wing nut clamp 5/8" x 11 stud, 65" open, 42" closed, 13 lb.      | \$140 | \$119.95  |
| 77606 CHI60ALQR20  | Heavy-duty aluminum, quick release clamp 5/8" x 11 stud, 65" open, 42" closed, 12 lb. | \$140 | \$119.95  |
| 86493 CHI60ALW25   | Heavy-duty aluminum, wing nut clamp 3-1/2" x 8 stud, 65" open, 42" closed, 13 lb.     | \$160 | \$145.95  |



## CST/berger

These new heavy-duty tripods are built specifically for machine control applications. Their rugged aluminum alloy construction is lightweight enough for easy transport and set-up. The 5/8" x 11 mounting adapter on the top of the elevator column can be removed for easy attachment to the base of your laser.

| Item             | Description  | MSRP   | FLT PRICE |
|------------------|--|--------|-----------|
| 84324 CHI60-MCT  | Machine control tripod, 11' 3" open, 6' closed, 29 lbs.            | \$795  | \$755.00  |
| 50936 CHI60-MCTE | Extra tall machine control tripod, 14' 3" open, 7' closed, 34 lbs. | \$1295 | \$1230.00 |

## Leica Geosystems - when it has to be right

Leica's robust, well-established tripods are ideal for levels, lasers, total stations, and GPS. The proven long life tripods are twist proof and have good vibration characteristics. The GST120-9 is self-closing utilizing special clamps to keep the tripod legs closed during transportation.

| Item            | Description   | MSRP  | FLT PRICE |
|-----------------|---|-------|-----------|
| 19762 LCA667301 | GST120-9 heavy-duty all wood wing-nut clamp, 5/8" x 11 stud, 72" open, 42" closed, 15 lb. | \$375 | \$346.95  |



# TRIPODS



GST120-9



NED200513



NED210670



CHI60ALW20ELAZ



DCHGT-2000



CHI60WDF20ELAZ



NWT97



NWT010



CHI60-TFG20



## WOODEN TRIPODS

Nedo wooden tripods use the finest European hardwood to ensure the utmost in stability, durability, and reliability. All wooden parts are sealed with a high-tech plastic material that keeps moisture out. The sturdy design and 100 years experience make Nedo wooden tripods the ideal tripod for the toughest conditions.

| Item            | Description   | MSRP  | FLT PRICE |
|-----------------|---|-------|-----------|
| 68434 NED200513 | Heavy-duty wood/fiberglass, quick clamp, 5/8" x 11 stud, 65" open, 40" closed, 17 lb. | \$295 | \$189.95  |

Nedo elevating tripods utilize powder-coated aluminum die-casting parts with brass hinge pins to ensure stability. Includes a circular bubble for easy set-ups, an aluminum top plate and direct gear unit for smooth adjustment of the laser.

| Item            | Description   | MSRP  | FLT PRICE |
|-----------------|---|-------|-----------|
| 96867 NED210612 | Medium-duty elevating tripod, quick clamp, 5/8" x 11 stud, 93" open, 44" closed, 19 lb. | \$255 | \$225.95  |
| 82539 NED210670 | Heavy-duty elevating tripod, quick clamp, 5/8" x 11 stud, 112" open, 34" closed, 25 lb. | \$315 | \$295.95  |
| 42146 NED210442 | Giant elevating tripod, quick clamp, 5/8" x 11 stud, 157" open, 70" closed, 32 lb.      | \$545 | \$500.00  |



## DUTCH HILL

Arguably one of the most durable tripods sold today, the GT-2000 is a fiberglass composite made in the USA with high-quality components. 5 yr warr.

| Item             | Description  | MSRP  | FLT PRICE |
|------------------|--|-------|-----------|
| 19603 DCHGT-2000 | Heavy-duty fiberglass tripod, quick clamp, 5/8" x 11 stud, 71" open/44" closed, 14 lb. | \$339 | \$264.95  |

## CST/berger

CST's elevator tripods feature all-surface rubber feet, ideal for grabbing slick surfaces and can be retracted to reveal sharp metal points for use on outdoor terrain. The adjustable column has a height adjustment range of 12" and improved gear system for smooth continuous motion.

| Item                 | Description  | MSRP  | FLT PRICE |
|----------------------|--|-------|-----------|
| 40654 CHI60WDF20ELAZ | Wood fiberglass, quick clamp 5/8" x 11 stud, 94" open, 49" closed, 18 lb.              | \$385 | \$349.95  |
| 79544 CHI60ALW20ELAZ | Heavy-duty aluminum, wing nut clamp 5/8" x 11 stud, 88" open, 48" closed, 16 lb.       | \$340 | \$319.95  |
| 73743 CHI60TFG20     | Aluminum floor tree enables a tripod to be placed on a smooth surface without slipping | \$85  | \$78.95   |



Northwest tripods are 100% aluminum and powder-coated for durability. A best-seller and a terrific value!

| Item         | Description   | MSRP  | FLT PRICE |
|--------------|---|-------|-----------|
| 47507 NWT91  | Medium-duty aluminum tripod, quick clamp, 5/8" x 11, 62" open, 38" closed, 11lb.    | \$135 | \$71.95   |
| 83426 NWT97  | Medium-duty aluminum tripod, wing nut clamp, 5/8" x 11, 62" open, 38" closed, 11lb. | \$135 | \$79.95   |
| 83745 NWT010 | Adapts older style 3-1/2" x 8 thread instruments to tripods with a 5/8" x 11 screw. | \$40  | \$32.95   |

# TRIBRACHS & RADIOS



## LEICA TRIBRACHS

Leica basic series tribrachs are ideal for medium accuracy requirements. All tribrachs have a universal 5/8" x 11 base plate. The tribrach has an optical plummet with 2x magnification and a focusing range of 1.6ft to infinity. Leica professional series tribrachs are well-established, robust, and precise for highest accuracy requirements. The foot screws are maintenance-free and protected against dust. The tribrach has an optical plummet with 2x magnification and a focusing range of 1.6ft to infinity.

| Item            | Description                                      | MSRP  | FLT PRICE |
|-----------------|--|-------|-----------|
| 93609 LCA667305 | GDF111 Basic tribrach w/out optical plummet      | \$300 | \$249.95  |
| 96740 LCA667308 | GDF112 Basic tribrach with optical plummet       | \$400 | \$349.95  |
| 32022 LCA667304 | GDF121 Professional tribrach w/out optical plum. | \$425 | \$384.95  |
| 43904 LCA667307 | GDF122 Professional tribrach with optical plum.  | \$525 | \$494.00  |



CHI61-3500



TOP55501



NWTNTB11



SEC2001



The Motorola XTN™ Series of professional two-way radios is designed for commercial use. It's designed to military 810 specifications and IP54 weather resistant. Easy to operate, lightweight, 15-hr rechargeable battery and AA capable for emergencies. Package includes NiMH rechargeable battery, charger, and swivel belt holster.

| Item              | Description                                 | MSRP  | FLT PRICE |
|-------------------|---|-------|-----------|
| 25356 MOTXV1100   | 1 watt, 1 channel VHF XTN series radio      | \$235 | \$184.95  |
| 84846 MOTXV2100   | 2 watt, 1 channel VHF XTN series radio      | \$279 | \$204.95  |
| 37176 MOT53862    | Remote speaker microphone for XTN radios    | \$70  | \$60.00   |
| 32363 MOTHNN9044  | Rechargeable battery for SP10/SP50 radios   | \$39  | \$35.00   |
| 15104 MOT53821    | Belt clip for XTN series radios             | \$15  | \$13.00   |
| 91158 MOTHNTN9014 | Drop-in charger for SP10/50 series radios   | \$38  | \$34.50   |
| 27031 MOT53874    | AC wall charger for XTN series radios       | \$15  | \$13.00   |
| 53872 MOT53872    | Drop-in charging tray for XTN series radios | \$28  | \$22.95   |
| 79058 MOT53871    | Rechargeable NiCAD battery for XTN radios   | \$36  | \$28.95   |



MOT53871



MOTHNN9044



MOT53862



Rugged and dependable all ProTalk radios feature 2-watts of power for up to 6 miles range. Compact and lightweight, meets military specifications for temperature and water. Package includes 18-hr NiMH battery, desktop charger and spring loaded belt clip. 2-yr warranty.

| Item               | Description                                  | MSRP  | FLT PRICE |
|--------------------|--|-------|-----------|
| 56452 KENTK-2200V2 | 2 watt, 2 channel VHF Protalk radio          | \$258 | \$189.95  |
| 14689 KENKNB-29N   | 18-hr NiMH for TK-2200 radio                 | \$40  | \$35.00   |
| 94957 KENKSC-31    | Drop-in charger for TK-2200 radio            | \$35  | \$30.00   |
| 29287 KENKMC-21    | Compact speaker microphone for Protalk radio | \$50  | \$49.00   |
| 72997 KENKRA-26M   | Replacement antenna for TK2200 radio         | \$20  | \$15.00   |
| 26481 KENKRA-14M   | Replacement antenna for 2100 series radio    | \$20  | \$17.00   |
| 87996 KENKNB-14    | 8-hr NiCad battery for 2100 series radio     | \$40  | \$37.00   |
| 76014 KENKSC-15    | Drop-in charger for 2100 series radio        | \$32  | \$28.00   |



LCA667308



LCA667304

## CST/berger

CST Wild-type tribrachs offer precise plumbing of surveying instruments and have a universal 5/8" x 11 base plate. The tribrach has a circular leveling sensitivity of 10' and comes with an optical plummet. This tribrach offers a superior price and quality combination.

| Item                 | Description                                    | MSRP  | FLT PRICE |
|----------------------|--|-------|-----------|
| 33170 CHI61-3500-BLK | Standard tribrach with optical plummet (black) | \$379 | \$299.00  |



Topcon tribrachs are compatible with most current type tribrachs in today's market. The tribrach comes with a 3x optical plummet.

| Item           | Description                          | MSRP  | FLT PRICE |
|----------------|--------------------------------------|-------|-----------|
| 89953 TOP55501 | Topcon tribrach with optical plummet | \$490 | \$358.00  |



This tribrach with optical plummet is ideal for medium accuracy requirements. It has a universal 5/8" x 11 screw base plate, a circular leveling sensitivity of 10' and an optical plummet focusing range of 1.5 to 50 ft.

| Item           | Description                             | MSRP  | FLT PRICE |
|----------------|---|-------|-----------|
| 88391 NWTNTB11 | Northwest tribrach with optical plummet | \$240 | \$159.00  |

| Item          | Description                      | MSRP | FLT PRICE |
|---------------|----------------------------------|------|-----------|
| 88183 SEC2001 | Seco tribrach adjusting cylinder | \$50 | \$41.95   |



KENTK-2200V2



MOTXV2100



MOTXV1100

AS LOW AS  
**\$184.95**

# LEVELING RODS



## LENKER STYLE DIRECT READING ROD

Laserline Lenker style rods are tough, lightweight, and versatile. The rods are constructed of high strength clear anodized aluminum and will not rust, split, splinter or warp in any environment. The tape lock grommets are oversized which greatly minimizes the problem of tape tearing. The tape has a heavy duty matte textured face which protects the tape numbers from wearing and fading.

| Item               | Description   | FLT PRICE |
|--------------------|---|-----------|
| 15827 LLMGR10T     | 10' Lenker style direct elevation rod, 10ths                    | \$159.95  |
| 90843 LLMGR10I     | 10' Lenker style direct elevation rod, inches                   | \$159.95  |
| 55904 LLMGR1000T   | Laser Lenker style direct elevation rod 10ths                   | \$179.95  |
| 69597 LLMGR1450T   | 15' Lenker style direct elevation rod, 10ths                    | \$260.00  |
| 98502 LLM1000-1026 | Replacement tape for GR10T                                      | \$60.00   |
| 55409 LLM1000-1301 | Canvas carrying case for GR10T                                  | \$35.00   |
| 13653 LLMBILA      | Lenker receiver clamp for Leica Laser Alignment Rod Eye family  | \$65.00   |
| 81545 LLMB1        | Lenker receiver clamp for SPY1275, Topcon, CST/Berger, Quagriga | \$65.00   |
| 14609 LLMB2        | Lenker receiver clamp for SPY1175, 1177, 3075                   | \$90.00   |
| 34713 LLM1000-1301 | Canvas carrying case for GR1000T                                | \$35.00   |
| 29974 LLMB1T       | Lenker receiver clamp for HR400, HR500, CR600                   | \$65.00   |
| 89317 LLMB550      | Lenker receiver clamp for HR550                                 | \$95.00   |



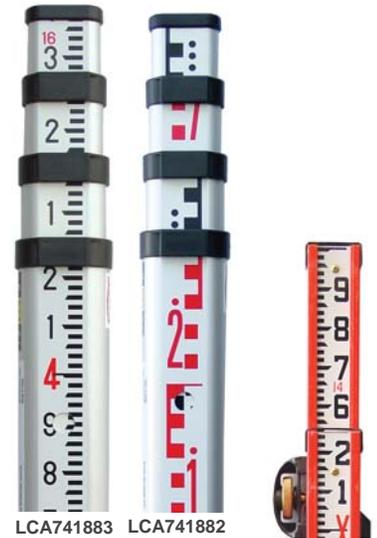
LLM1000-1026



## TELESCOPIC ALUMINUM ROD

Leica's 5m, 4 section, rods are constructed of high quality anodized aluminum which resists fading and weathering. Includes circular bubble and carrying case.

| Item            | Description                               | MSRP | FLT PRICE |
|-----------------|---|------|-----------|
| 90756 LCA741882 | 5m, 4 section leveling rod 10ths/100ths   | \$85 | \$79.95   |
| 25821 LCA741883 | 5m, 4 section leveling rod E scale metric | \$85 | \$79.95   |



LCA741883 LCA741882



## FIBERGLASS PHILLY and FRISCO RODS

Both Philly and Frisco-style fiberglass rods are dual-faced with black graduations. Foot numbers are imprinted in bright red for fast and easy location. 13' Philly rods have 2 sections and collapse to 7'. Frisco rods have 3 sections ; 12' rods collapse to 4', and 15' rods collapse to 5'.

| Item              | Description                               | MSRP  | FLT PRICE |
|-------------------|---|-------|-----------|
| 79213 CHI07-628   | 12' fiberglass Frisco rod ft/10ths/100ths | \$160 | \$136.95  |
| 14059 CHI07-629   | 15' fiberglass Frisco rod ft/10ths/100ths | \$180 | \$152.95  |
| 74470 CHI07-635   | 12' fiberglass Philly rod ft/10ths/100ths | \$170 | \$143.95  |
| 32651 CHI10-328-1 | Nylon case for 12' Frisco rod             | \$20  | \$15.95   |
| 50362 CHI10-329-1 | Nylon case for 15' Frisco rod             | \$18  | \$15.95   |

## RANGE POLES

CST's range poles are constructed of a high strength aluminum core with alternating colors of orange and white permanently attached to the aluminum. The heavily pigmented colors resist fading and weathering under the toughest conditions. The pole is 1 1/16" in diameter with 5/8 x 11 thread joints for easy assembly. Hardened steel point is included.

| Item              | Description                   | MSRP | FLT PRICE |
|-------------------|-------------------------------|------|-----------|
| 68851 CHI68-3708  | 8' range pole (2 section)     | \$45 | \$32.95   |
| 44338 CHI68-3712  | 12' range pole (3 section)    | \$57 | \$39.95   |
| 36658 CHI68-3740  | Range/prism pole point        | \$10 | \$7.95    |
| 32651 CHI10-328-1 | Nylon case for 12' Frisco rod | \$17 | \$15.70   |
| 50362 CHI10-329-1 | Nylon case for 15' Frisco rod | \$18 | \$15.95   |

## RANGE POLE TRIPOD

| Item                 | Description                           | MSRP | FLT PRICE |
|----------------------|---------------------------------------|------|-----------|
| 76565 TRUR.P. TRIPOD | Heavy-duty umbrella/range pole tripod | \$90 | \$69.95   |



CHI68-3708



CHI68-3740



TRUR.P. TRIPOD

CHI07-629

# LEVELING RODS



## SVR RODS

Our best selling rod! The SVR (Surveyor) series heavy-duty leveling rod is constructed of strong reinforced fiberglass and its rectangular-oval shape is designed for the serious user. Scales are glare resistant and protected by an abrasion resistant coating. A special measuring scale on the backside permit users to read height at eye level. The top of the rod has a female 1/4" x 20 thread for attaching accessories. 16' rods are 4 section and collapse to 5'. 25'/7.6m rods are 6 section and collapse to 5.5'. Carrying case included.

| Item           | Description                                 | MSRP  | FLT PRICE |
|----------------|---|-------|-----------|
| 33466 MND90343 | 16' ft/10ths/100ths                         | \$183 | \$151.95  |
| 33713 MND90344 | 16' ft/inches/8ths                          | \$183 | \$151.95  |
| 98658 MND5VR25 | 25' ft/10ths/100ths                         | \$214 | \$169.95  |
| 91687 MND90341 | 25' ft/inches/8ths                          | \$214 | \$169.95  |
| 62863 MND90385 | 7.6m "E" metric pattern                     | \$214 | \$169.95  |
| 86280 MND90346 | 25'/7.6m 10ths/100ths & Philly metric 0.5cm | \$214 | \$169.95  |
| 31296 MND91412 | Canvas carrying case for CR and SVR rods    | \$12  | \$10.95   |

## CR RODS

The CR (Construction) series leveling rod is constructed of lightweight fiberglass in a rectangular shape with rounded back corners for a better grip. Graduations fill the entire face of the rod and a measuring scale on the backside permit users to read height at eye level. The top of the rod has a female 1/4" x 20 thread for attaching accessories. 8' rods are 2 section and collapse to 52"; 13' rods are 3 section and collapse to 59"; 16' rods are 4 section and collapse to 57"; 20' rods are 5 section and collapse to 58".

| Item           | Description                              | MSRP | FLT PRICE |
|----------------|--|------|-----------|
| 44694 MND9CR8  | 8' ft/10ths/100ths                       | \$53 | \$44.95   |
| 13886 MND92002 | 8' ft/inches/8ths                        | \$53 | \$44.95   |
| 23279 MND9CR13 | 13' ft/10ths/100ths                      | \$74 | \$59.95   |
| 77948 MND92022 | 13' ft/inches/8ths                       | \$74 | \$59.95   |
| 54398 MND9CR16 | 16' ft/10ths/100ths                      | \$93 | \$75.95   |
| 48085 MND92042 | 16' ft/inches/8ths                       | \$93 | \$75.95   |
| 31296 MND91412 | Canvas carrying case for CR and SVR rods | \$12 | \$10.95   |

## PRISM ADAPTERS

| Item           | Description  | MSRP | FLT PRICE |
|----------------|--|------|-----------|
| 33149 MND91258 | 1/4" x 20 to 5/8" x 11 prism adapter for SVR and CR rods     | \$17 | \$13.95   |
| 88189 MND91133 | 5/8" x 11 double male thread prism adapter for LR series rod | \$15 | \$11.95   |
| 83305 SEC2080  | 5/8" x 11 to Leica stub adapter                              | \$22 | \$19.95   |
| 48170 SEC2090  | Leica stud to 5/8" x 11 adapter                              | \$28 | \$25.95   |



MND91258



MND91133



SEC2080



SEC2090

## LR-STD RODS

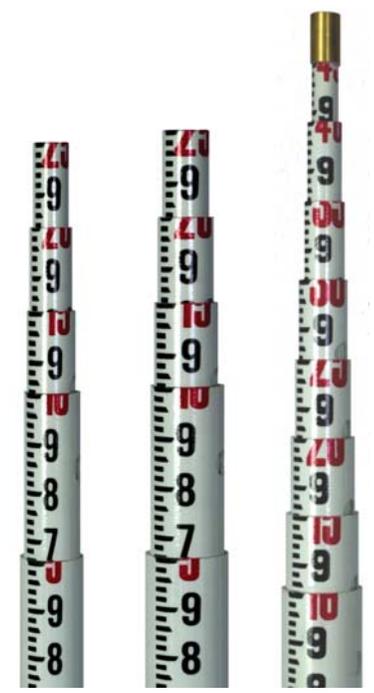
The LR series leveling rod is the original fiberglass rod. The LR-STD series are round and have a small diameter allowing easy handling. The LR-PRO series rods have a larger diameter so that it is sturdier and easier to read at higher heights. Both have a 5/8" x 11 female thread on the top to attach a prism. Canvas carrying cases are included with all Pro Series Rods.

| Item             | Description                                | MSRP  | FLT PRICE |
|------------------|--|-------|-----------|
| 33978 MNDLRSTD25 | 25' ft/10ths/100ths                        | \$236 | \$184.95  |
| 32886 MNDLRPRO25 | 25' ft/10ths/100ths carrying case included | \$285 | \$229.95  |
| 78318 MND90026   | 45' ft/10ths/100ths carrying case included | \$507 | \$479.95  |

AS LOW AS  
**\$151.95**



Our best-selling level rod!



MNDLRSTD25 MNDLRPRO25 MND90026

# LEVELING RODS



## CMR SERIES MEASURING RULER

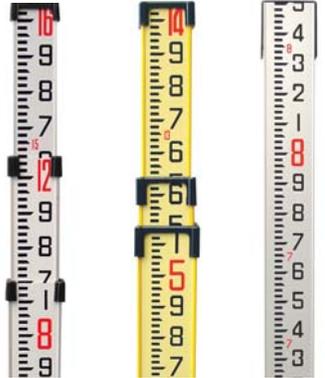
A versatile tool for fast accurate one-person measuring, the CMR Series is the tool for measuring heights, clearances and horizontal distances up to 50 ft. The CMR Measuring Ruler is a direct reading rod at eye level. It comes with a caliper tip with a 1/4" x 20 female thread for accessories and carrying case.

| Item           | Description                                  | MSRP  | FLT PRICE |
|----------------|--|-------|-----------|
| 60620 MND90180 | 25' CMR measuring rod carrying case included | \$246 | \$234.00  |

## PIPE MIC II

Measure pipe inverts and sizes fast, easy, and accurately from above. By simply pulling a pin you can go from zero to 1 ft. vertical offset for clearance under rod. Measurements are more accurate because you are measuring with a vertically plumb rod. Made for use with Crain SVR rods.

| Item                 | Description | MSRP  | FLT PRICE |
|----------------------|-------------|-------|-----------|
| 27774 CHNPIPE MIC II | Pipe Mic II | \$185 | \$174.95  |



NWT16T    NWTNFR14ET    NWT8.5T

## POCKET ROD

The 1" wide steel blade removes for readings and easily retracts into the 3-1/2" square, tape-measure-sized case. Three scale types available with the same graduations printed on both the front and back of the rod.

| Item           | Description     | MSRP | FLT PRICE |
|----------------|-----------------|------|-----------|
| 34652 KESPR610 | Ft/10ths/100ths | \$20 | \$15.95   |
| 41415 KESPR618 | Ft/inches/8ths  | \$20 | \$15.95   |

## ROD LEVEL

Heavy-duty aluminum frame with 10 minute circular vial for improved accuracy.

| Item            | Description | MSRP | FLT PRICE |
|-----------------|-------------|------|-----------|
| 58667 CHI06-750 | Rod level   | \$18 | \$15.95   |

## CST/berger

### ALUMINUM LEVEL RODS

CST's telescoping aluminum rods are made of a light and durable aluminum alloy. The anodized sections are imprinted with special weather and corrosion resistant inks. Wear resistant polycarbonate buttons lock each section and a special measuring scale on the backside permits users to read height at eye level.

| Item             | Description                                | MSRP | FLT PRICE |
|------------------|--|------|-----------|
| 79128 CHI06-808C | 8' graduated ft/inches/8ths; 3 section     | \$42 | \$39.95   |
| 28351 CHI06-813  | 13' graduated ft/10ths/100ths; 4 section   | \$59 | \$54.95   |
| 76721 CHI06-813C | 13' graduated ft/inches/8ths; 4 section    | \$59 | \$54.95   |
| 28347 CHI06-804M | 4m graduated metric "E" pattern; 4 section | \$59 | \$54.95   |
| 72600 CHI06-816  | 16' graduated ft/10ths/100ths; 5 section   | \$65 | \$59.95   |
| 24467 CHI06-816C | 16' graduated ft/inches/8ths; 5 section    | \$65 | \$59.95   |
| 51753 CHI06-805M | 5m graduated metric "E" pattern; 5 section | \$65 | \$59.95   |



## STREAM GAUGES

The fiberglass stream gauge is the best permanent marker for water depths of rivers, lakes, and swamps. The stream gauge is available in separate units so that any measurement may be provided. Stream gauges are available in Ft/10ths/100ths or unnumbered (10ths/100ths) allowing you to customize water elevations.

| Item           | Description                   | MSRP | FLT PRICE |
|----------------|-------------------------------|------|-----------|
| 41861 MND99023 | 4' unnumbered ft/10ths        | \$38 | \$32.95   |
| 86613 MND99000 | 4' unnumbered ft/10ths/100ths | \$38 | \$32.95   |
| 34956 MND99001 | 0-4' ft/10ths/100ths          | \$38 | \$32.95   |
| 21988 MND99002 | 4-8' ft/10ths/100ths          | \$38 | \$32.95   |
| 20442 MND99003 | 8-12' ft/10ths/100ths         | \$38 | \$32.95   |
| 58994 MND99004 | 12-16' ft/10ths/100ths        | \$38 | \$32.95   |
| 47464 MND99005 | 16-20' ft/10ths/100ths        | \$38 | \$32.95   |
| 70209 MND99006 | 20-24' ft/10ths/100ths        | \$38 | \$32.95   |



MND90180



| Item             | Description  | MSRP  | FLT PRICE |
|------------------|--|-------|-----------|
| 43442 NWT09      | 9' aluminum graduated ft/inches/8ths                 | \$49  | \$36.95   |
| 93447 NWT09T     | 9' aluminum graduated ft/10ths/100ths                | \$49  | \$36.95   |
| 68625 NWT14      | 14' aluminum graduated ft/inches/8ths                | \$65  | \$48.95   |
| 23659 NWT14T     | 14' aluminum graduated ft/10ths/100ths               | \$65  | \$48.95   |
| 33206 NWT16      | 16' aluminum graduated ft/inches/8ths                | \$75  | \$53.95   |
| 42552 NWT16T     | 16' aluminum graduated ft/10ths/100ths               | \$75  | \$53.95   |
| 42000 NWTNFR18ET | 18' fiberglass ft/10ths/100ths front; ft/inches back | \$140 | \$89.95   |
| 75399 NWT8.5E    | 8.5' aluminum laser rod ft/inches                    | \$85  | \$59.95   |
| 32690 NWT8.5T    | 8.5' aluminum laser rod ft/10ths/100ths              | \$85  | \$59.95   |



KESPR610

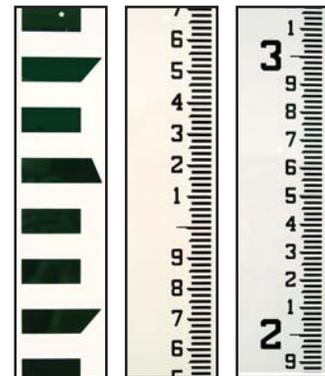
CHI06-750

LEVEL RODS FROM

**\$36.95**



CHI06-816C



MND99023

MND99000

MND99001

# GPS ACCESSORIES



## GPS CONTROLLER CRADLES & POLE BRACKETS

Seco's open clamp bracket systems offers an efficient way to mount data collectors or GPS controllers to antenna or rover poles. The assembly is comprised of a cradle and a pole bracket. The user simply connects the cradle into a pole bracket for a complete unit. Both items are sold separately allowing for easy customization.



| Item              | Description   | MSRP | FLT PRICE |
|-------------------|---|------|-----------|
| 55864 SEC5198-086 | Cradle assembly for Leica TR500 GPS controller (Leica System 500 and RX1210T GPS controller (System 1200) | \$70 | \$57.95   |
| 15124 SEC5198-088 | Cradle assembly for Carlson Explorer and Allegro  | \$72 | \$61.95   |
| 19525 SEC5198-055 | Pole bracket assembly with compass  | \$80 | \$67.95   |
| 76888 SEC5198-056 | Pole bracket assembly with compass and level vial   | \$83 | \$69.95   |

## GPS CONTROLLER CRADLES & POLE BRACKETS

The quick-release Claw is a new and improved aluminum clamping system that keeps your data collecting hardware snug on the pole without crushing it.

| Item              | Description                        | MSRP  | FLT PRICE |
|-------------------|------------------------------------|-------|-----------|
| 71083 SEC5200-052 | Seco claw for Allegro and Explorer | \$249 | \$209.00  |



## GPS 2m ROVER POLES

Crain's Composite Carbon and Aluminum 2 meter GPS Poles are incredibly light and have an outside diameter of 1 1/4" making the poles much easier to handle and less bulky. Each pole comes standard with an innovative new Topo-Boot that protects the point and increases the area for topo shots without changing the HI. A 42 arc second level vial is standard on both poles.

| Item           | Description                      | MSRP  | FLT PRICE |
|----------------|----------------------------------|-------|-----------|
| 33255 MND90291 | Carbon Composite 42 Arc GPS Pole | \$336 | \$265.95  |
| 39544 MND90292 | Aluminum 42 Arc GPS Pole         | \$98  | \$83.95   |



## CARBON FIBER SNAP-LOCK ROVER ROD

These new rover rods are faster to setup and more user friendly compared to traditional two-piece rods. They feature a one-piece design and two locking systems for stability-the snap lock prevents slippage and the compression lock centers the telescopic inner pole and maintains straightness. The carbon fiber model locks at 2 meters, collapses to 1.354 meters and weighs 1.6 lbs. A 40-minute level vial is included.

| Item             | Description                    | MSRP  | FLT PRICE |
|------------------|--------------------------------|-------|-----------|
| 75512 SEC5128-20 | 2m Carbon fiber snap-lock pole | \$350 | \$329.50  |



## GPS 2m ROVER POLES

| Item            | Description                                     | MSRP     | FLT PRICE |
|-----------------|---|----------|-----------|
| 77174 LCA667221 | Bottom section aluminum pole with steel tip     | \$80.00  | \$80.00   |
| 70276 LCA667222 | Top section aluminum pole with 5/8" screw       | \$80.00  | \$80.00   |
| 15565 LCA667224 | Top section aluminum pole with Leica stud       | \$80.00  | \$80.00   |
| 65520 LCA667225 | Bottom section carbon-fiber pole with steel tip | \$250.00 | \$250.00  |
| 94144 LCA667226 | Top section carbon-fiber pole with 5/8" screw   | \$250.00 | \$250.00  |
| 71388 LCA667227 | Top section carbon-fiber pole with Leica stud   | \$250.00 | \$250.00  |



## GRADUATED COLLAPSIBLE GPS ANTENNA TRIPOD

This tripod features a collapsible center staff with twist locking mechanism that rotates 360 degrees to check calibration of plumbing with a 10 minute vial, and quick release mechanisms on the legs. It is dual graduated and adjusts to three heights: 2 m, 1.8 m, and 1.5 m. It collapses to 50" and features an onboard compass and removable 5/8 x 11 adapter.

| Item                 | Description                    | MSRP  | FLT PRICE |
|----------------------|--------------------------------|-------|-----------|
| 10025 SEC5119-00-FLY | Collapsible GPS antenna tripod | \$797 | \$735.95  |

| Item              | Description                          | MSRP  | FLT PRICE |
|-------------------|--------------------------------------|-------|-----------|
| 18316 SEC5114     | Triple magnetic mount w/ 5/8" thread | \$260 | \$239.00  |
| 44857 SEC5114-050 | Single magnetic mount w/ 5/8" thread | \$60  | \$56.95   |



# CABLES, BATTERIES & CHARGERS



## BATTERIES & CHARGERS

| Item                    | Description   | FLT PRICE |
|-------------------------|---|-----------|
| 70459 LCA667123 GEB121  | Rechargeable camcorder type battery for TPS400, 700, 800, 1100, RCS 1100, GPS500, GS50, DNA03/10.       | \$110.00  |
| 11083 LCA667318 GEB111  | Rechargeable camcorder type battery for TPS100, 300,400, 700, 800, 1100, RCS 1100, DNA03/10.            | \$80.00   |
| 87927 LCA733270 GEB221  | Rechargeable Li-ION type battery for TPS1200 and GPS1200.   | \$180.00  |
| 57960 LCA733269 GEB211  | Rechargeable Li-ION type battery for RX1220 handheld data collector.                                    | \$130.00  |
| 89213 LCA439149 GEB77   | Rechargeable camcorder type battery for old style TC400-905.  | \$160.00  |
| 50569 LCA636850 GEB87   | Rechargeable camcorder type battery for TPS1000.  | \$160.00  |
| 97522 LCA727367 GEB171  | Rechargeable external battery for TPS400, 700, 800, 1100, GPS500, TPS1200, GPS1200.                     | \$395.00  |
| 42677 LCA739921 GKL112  | Budget priced charger for single GEB111/121 battery. Car charger adapter cable included.                | \$80.00   |
| 71353 LCA639959 GKL22-1 | Charger for GEB77 and other 5-pin plug batteries except GEB171 external battery.                        | \$90.00   |
| 27042 LCA734752 GKL211  | Charger for GEB221 and GEB211 Li-ION batteries. Car charger adapter cable included.                     | \$110.00  |
| 70709 LCA733271 GKL221  | Pro charger charges four GEB221/211 and GEB77, 87, 171 batteries. Requires (2) GDI221/2 charging trays. | \$500.00  |
| 80746 LCA733323 GDI221  | GDI221 Li-ION charging tray adapters charges two GEB221 and GEB211 batteries. To be used with G         | \$60.00   |
| 53124 LCA733322 GDI222  | NiMH charging tray adapters charges one GEB121/111 batteries & GEB77/87/187/79 batteries.               | \$60.00   |



## CABLES

| Item                   | Description  | FLT PRICE |
|------------------------|--|-----------|
| 86889 LCA409678 GEV52  | Leica cable connects TPS total stations or DNA levels to external battery.                             | \$130.00  |
| 78268 LCA439038 GEV71  | Leica 4m car battery cable that connects GPS receiver to 12V car battery.                              | \$210.00  |
| 63758 LCA560130        | Leica 1.8m power/data cable that connects GEB171 external battery to GPS receiver.                     | \$130.00  |
| 15412 LCA560254        | Leica 2.8m data transfer cable sensor/controller to PC. Lemo to 9-pin RS232 connector (GPS500 System). | \$120.00  |
| 88758 LCA563625 GEV102 | Leica cable connects TPS total stations or DNA digital levels to PC (9-pin RS232 serial connection).   | \$100.00  |
| 17575 LCA563809        | Leica 2.8m GPS modem cable CR244 to Comlink.   | \$125.00  |
| 49252 LCA632372        | Leica 10m antenna cable for GPS.   | \$130.00  |
| 92428 LCA636959        | Leica 2.8m antenna cable for GPS.  | \$55.00   |
| 85745 LCA636972        | Leica 0.5m cable connects GEB171 external battery to GPS receiver.                                     | \$130.00  |
| 82608 LCA667200 GEV141 | 1.2m antenna cable for GPS.  | \$60.00   |
| 52815 LCA667201 GEV142 | 1.6m antenna cable for GPS.  | \$70.00   |
| 55019 LCA733280 GEV160 | Data transfer cable connects GPS1200 or RX1220 to PC (9-pin RS232 serial connection).                  | \$130.00  |
| 26444 LCA733281 GEV161 | Data transfer cable connects GPS1200 or RX1220 to PC (USB connection).                                 | \$175.00  |
| 88837 LCA733283 GEV163 | 1.8m controller cable connecting RX1200 controller to GX1200 receiver.                                 | \$170.00  |
| 18558 LCA734697 GEV186 | Y-cable connects RX1200 to TPS1200 & external battery.   | \$290.00  |
| 58265 LCA734698 GEV187 | Y-cable connects TPS1200 to PC (9-pin RS232 serial) and external battery.                              | \$250.00  |
| 96613 LCA734700 GEV189 | Data transfer cable LEMO to USB.   | \$175.00  |



| Item                   | Description   | FLT PRICE |
|------------------------|---|-----------|
| 16444 TOP51724 BT-32Q  | Topcon BT-32Q battery for GPT1003/210/200 series total stations.  | \$217.00  |
| 27280 TOP51730 BT-52QA | Rechargeable battery for GPT3000/2000 & GTS220 series total stations.                                   | \$217.00  |
| 57262 TOP51741 BC-10B  | Battery charger for GTS2B, 3B, 4 & external battery.  | \$117.00  |
| 15548 TOP51769 BC-19BR | Battery charger for GPT1003 & GTS210/200 series total stations. CTS-2/1 & DL-100 series total stations. | \$217.00  |
| 50196 TOP60347 BC-27B  | Battery charger for GPT8200/8000/6000/3000/2000 series and GTS800/600/220 series total stations.        | \$235.00  |



| Item            | Description  | FLT PRICE |
|-----------------|--|-----------|
| 47913 PCRA00393 | Automotive battery power cable to pig-tail with lug hardware and fuse. | \$21.00   |
| 65018 PCRA00454 | PDL base radio to Leica GPS receiver interface cable.                  | \$199.00  |
| 91683 PCRA00911 | Antenna mount for PDL base station.                                    | \$158.00  |
| 15700 PCRA00998 | PDL rover to Leica GPS interface cable.                                | \$256.00  |



| Item                | Description   | FLT PRICE |
|---------------------|---|-----------|
| 55792 TDS148LTZCAB  | Topcon/Sokkia instrument cable connects to most data collectors via RS232 serial port connection. | \$70.00   |
| 58615 TDS148WLDACAB | Leica instrument cable connects to most data collectors via RS232 serial port connection.         | \$70.00   |
| 69126 TDS48PC9P     | HP48 instrument cable connects HP48 to PC via RS232 serial port connection.                       | \$29.95   |
| 37461 TDSWILDCABLE  | Leica instrument cable connects Leica instruments to HP48 data collector.                         | \$78.00   |

# MEASURING WHEELS



ROL400



ROL415



ROLMM30



ROL300



## PROFESSIONAL SERIES

The Rolatape wheels handle the toughest measuring needs for heavy construction and large commercial operations. The professional series features all steel construction, a five digit counter, and wheel stand. Wheel circumference: 4' for model 400, 400M, 415; 1 meter for 415M; 3' for 300. 5 yr warranty.

| Item          | Description              | MSRP  | FLT PRICE |
|---------------|--------------------------|-------|-----------|
| 58820 ROL400  | Model 400 (feet)         | \$148 | \$129.95  |
| 98356 ROL400M | Model 400 (meters)       | \$160 | \$139.95  |
| 84655 ROL415  | Model 415 (feet/inches)  | \$151 | \$132.95  |
| 49332 ROL415M | Model 415 (meters/dm/cm) | \$165 | \$144.95  |
| 53941 ROL300  | Model 300S (feet)        | \$118 | \$96.95   |

## MM SERIES

The MM-30 series wheels have a circumference of 3 ft. The lightweight materials and quality construction makes the MM-30 series the perfect choice for medium sized jobs. The MM-12 is extremely portable and gives accurate measurements on any smooth surface. Wheel circumference of 1 ft. 3 year warranty.

| Item          | Description                              | MSRP  | FLT PRICE |
|---------------|--|-------|-----------|
| 63291 ROLMM30 | MM30 measure master series (feet/inches) | \$104 | \$79.95   |
| 40432 ROLMM12 | MM12 measure master series (feet/inches) | \$45  | \$34.95   |



## KESON ROADRUNNER

Keson's Roadrunner 300 and 400 series wheels are very durable and built for commercial applications. Each wheel features all steel construction, a five digit counter, and wheel stand. The 318 series is a lighter version of the 300 series, more compact, and measures to the nearest inch.

| Item            | Description              | MSRP  | FLT PRICE |
|-----------------|--------------------------|-------|-----------|
| 53491 KESMP401  | 400 series (feet)        | \$140 | \$109.95  |
| 25198 KESMP301  | 300 series (feet)        | \$119 | \$99.95   |
| 53941 KESRR318N | 318 series (feet/inches) | \$70  | \$62.95   |



## DIGIROLLER PLUS II

With the Digiroller Plus II you can obtain fast, accurate, measurements for on-site linear, area and volume estimates. Built-in functions calculates and stores square footage and cubic volumes in Feet-Inches, Decimal Feet, Inches, Yards, Meters and Acres.

| Item          | Description        | MSRP  | FLT PRICE |
|---------------|--------------------|-------|-----------|
| 21570 CAL6425 | Digiroller Plus II | \$170 | \$152.95  |



ROLMM12



KESMP401

4' wheels from \$109.95



KESRR318N

AS LOW AS \$36.95



KESMP301



CAL6425

# METAL LOCATORS

## CST/berger

### MAGNA-TRAK 200 MAGNETIC LOCATOR

Magnetic Locators locate ferrous objects underground such as PK or Mag nails, iron pipes, valve covers, cast iron water and gas lines, as well as energized power lines.

- LCD digital readout and bar graph display allow you to locate visually
- Audio tone allows for pinpoint accuracy, even in congested search areas
- One-handed operation. Membrane switch lets you adjust volume and sensitivity with the same hand that holds the locator. Membrane seals out dirt and moisture.
- Low battery indicator
- Indicator cautions when detecting a power line
- Lightweight (3 lbs)
- Soft padded case included and 3 year warranty



| Item              | Description                            | MSRP  | FLT PRICE |
|-------------------|--|-------|-----------|
| 88295 CHI19-200SC | Magna Trak 200 series magnetic locator | \$749 | \$529.95  |

## SCHONSTEDT INSTRUMENT COMPANY

*Making Locating Easier Since 1953*

### SCHONSTEDT GA-52Cx MAGNETIC LOCATOR

Our best selling locator! Schonstedt locators have been setting the standard for reliability and dependability for over 30 years. The GA-52Cx provides an audio signal that peaks in frequency when the locator's tip is held over the target.

- Rugged metal housing
- Only two controls (on/off sensitivity and volume)
- Five sensitivity settings
- Hard carrying case
- 7 year warranty



| Item          | Description                         | MSRP  | FLT PRICE |
|---------------|-------------------------------------|-------|-----------|
| 76021 SCHGA52 | Schonstedt GA-52Cx magnetic locator | \$885 | \$679.95  |

### SCHONSTEDT GA-72Cd MAGNETIC LOCATOR

The GA-72Cd also has easy-to-read digital and bar graph indicators which displays signal strength and polarity. Once you have located a target using the audio signal, the digital readout and polarity indicators will help you to visually pinpoint the target and, in some instances, even determine its orientation.

- Five sensitivity settings
- 5 year warranty
- Hard carrying case
- Audio and visual indicators
- Battery indicator



| Item          | Description                         | MSRP   | FLT PRICE |
|---------------|-------------------------------------|--------|-----------|
| 27467 SCHGA72 | Schonstedt GA-72Cd magnetic locator | \$1015 | \$852.95  |

### SCHONSTEDT 92XTi MAGNETIC LOCATOR

Fifteen months of research, design and testing has produced the new 92XTi, the most portable magnetic locator ever made. The 92XTi provides an audio signal that peaks in frequency when the locator's tip is held over the target.

- Includes holster to carry on your hip
- Ergonomic design, one hand operation
- Detects ferrous objects up to 16' underground
- Operates in extended or retracted modes
- Battery indicator
- Lightweight (2.4 lbs)
- 7 year warranty



| Item           | Description                         | MSRP   | FLT PRICE |
|----------------|-------------------------------------|--------|-----------|
| 82200 SCH92XTi | Schonstedt GA-72Cd magnetic locator | \$1015 | \$852.95  |

# TAPES

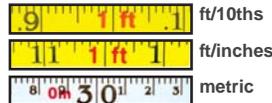
## CST/berger

### PRO SERIES FIBERGLASS TAPES

The Pro-Series tapes are waterproof and made with non-woven PVC-coated fiberglass of superior durability. Markings are not affected by casual contact with paint thinner, gasoline or similar fluid. PVC face will not collect dust. Mildew and stains wash off with soap and water. 1/2" tape width. **3:1 ratio rewind**

| Item               | Description                 | MSRP | FLT PRICE |
|--------------------|-----------------------------|------|-----------|
| 22950 CHI74-Y1001  | 100' ft/10ths               | \$25 | \$15.95   |
| 34946 CHI74-Y1008  | 100' ft/inches              | \$25 | \$15.95   |
| 86370 CHI74-Y1001M | 30m 10ths/metric (2 sided)  | \$25 | \$15.95   |
| 31342 CHI74-Y2001  | 200' ft/10ths               | \$49 | \$29.95   |
| 25250 CHI74-Y2008  | 200' ft/inches              | \$49 | \$29.95   |
| 46683 CHI74-Y1651M | 50m 10ths/metric (2 sided)  | \$49 | \$30.95   |
| 11069 CHI74-Y3001  | 300' ft/10ths               | \$65 | \$43.95   |
| 18774 CHI74-Y3008  | 300' ft/inches              | \$65 | \$43.95   |
| 47160 CHI74-Y3001M | 100m 10ths/metric (2 sided) | \$65 | \$46.95   |

AS LOW AS  
**\$15.95**



## Lufkin®

### Hi-Viz LINEAR FIBERGLASS TAPES

Lufkin's Hi-Viz® Linear fiberglass tapes are waterproof and designed such that dirt does not collect in the case. The lightweight open reel is easy to handle and rewind. 1/2" tape width. **1:1 ratio rewind**

| Item              | Description     | MSRP | FLT PRICE |
|-------------------|-----------------|------|-----------|
| 12752 LFK1706     | 100ft ft/inches | \$25 | \$16.95   |
| 91218 LFK1706D    | 100ft ft/10ths  | \$25 | \$16.95   |
| 95619 LFKHY1730CM | 30m metric      | \$25 | \$17.95   |
| 38662 LFK1708     | 200ft ft/inches | \$65 | \$26.95   |
| 38760 LFK1708D    | 200ft ft/10ths  | \$65 | \$26.95   |
| 15641 LFKHY1750CM | 50m metric      | \$65 | \$26.95   |
| 56566 LFK1709     | 300ft ft/inches | \$70 | \$42.95   |
| 20552 LFK1709D    | 300ft ft/10ths  | \$70 | \$42.95   |



## CST/berger

### PRO-LINE NYLON CLAD STEEL TAPES

The Pro-Line tapes are an indispensable measuring tool designed for the precision-minded user. Open reels feature new rubber reinforced, rounded design, large soft rubber grip handle, and new color combos. 1/2" tape width. Type A end (loop end) zero begins 10" from end of loop. Type B end (hook end) zero begins at hook. **3:1 ratio rewind**

| Item               | Description                         | MSRP  | FLT PRICE |
|--------------------|-------------------------------------|-------|-----------|
| 83032 CHI82-10010A | 100ft 10ths/100ths; type A loop end | \$54  | \$26.95   |
| 84802 CHI82-10010B | 100ft 10ths/100ths; type B hook end | \$54  | \$26.95   |
| 84593 CHI82-10080B | 100ft inches; type B hook end       | \$54  | \$26.95   |
| 46274 CHI82-30MA   | 30m metric; type A loop end         | \$49  | \$34.95   |
| 57544 CHI82-20010A | 200ft 10ths/100ths; type A loop end | \$89  | \$47.95   |
| 65474 CHI82-20010B | 200ft 10ths/100ths; type B hook end | \$89  | \$47.95   |
| 54866 CHI82-20080B | 200ft inches; type B hook end       | \$89  | \$47.95   |
| 16185 CHI82-50MA   | 50m metric; type A loop end         | \$84  | \$49.95   |
| 23145 CHI82-30010B | 300ft 10ths/100ths; type B hook end | \$135 | \$79.95   |
| 34307 CHI82-30080B | 300ft inches; type B hook end       | \$135 | \$79.95   |
| 83244 CHI82-100MA  | 100m metric; type A loop end        | \$139 | \$79.95   |

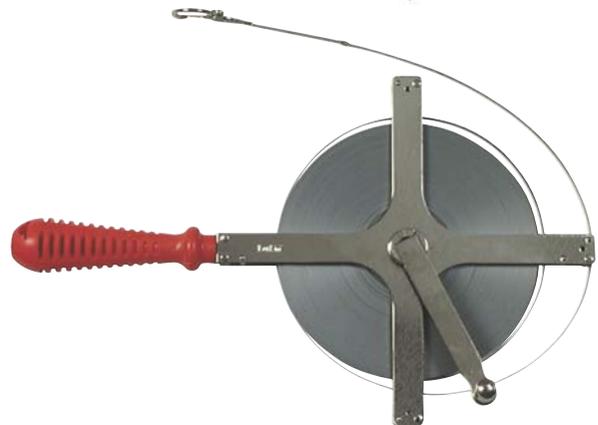


## Lufkin®

### PEERLESS CHROME CLAD TAPES

The Chrome Clad blade is designed for engineers and surveyors who prefer a 4-arm reel. The blade is 1/4"/6mm wide and .016" thick and removes easily from the reel. The reel is nickel plated, 4-arm with rollers in each arm for smooth winding.

| Item            | Description                 | MSRP  | FLT PRICE |
|-----------------|-----------------------------|-------|-----------|
| 61777 LFKC1276  | 1/4" x 100' ft/inches/8ths  | \$259 | \$191.95  |
| 67869 LFKC1276D | 1/4" x 100' ft/10ths/100ths | \$259 | \$191.95  |
| 85447 LFKC1278  | 1/4" x 200' ft/inches/8ths  | \$465 | \$341.95  |
| 44307 LFKC1278D | 1/4" x 200' ft/10ths/100ths | \$465 | \$341.95  |



## Lufkin®

### PRO SERIES NYCLAD STEEL TAPE

Steel blade will not stretch under normal use and the blade features a durable nylon coating to resist wear under extreme conditions. 3-to-1 blade retraction saves time in the field and Hi-Viz orange case is easy to find on the job site.

| Item             | Description           | MSRP  | FLT PRICE |
|------------------|-----------------------|-------|-----------|
| 94853 LFKPS1806  | 100ft ft/inches/8ths  | \$72  | \$42.95   |
| 70277 LFKPS1806D | 100ft ft/10ths/100ths | \$72  | \$42.95   |
| 71243 LFKPS1808D | 200ft ft/10ths/100ths | \$92  | \$69.95   |
| 20941 LFKPS1809D | 300ft ft/10ths/100ths | \$146 | \$119.95  |

### SUPER HI-WAY NUBIAN TAPES

The Nubian blade is 5/16" wide with black background and raised markings. One foot increments except last foot graduated in 10ths/100ths. **Reel sold separately.**

| Item            | Description                      | MSRP  | FLT PRICE |
|-----------------|----------------------------------|-------|-----------|
| 87939 LFKO9100B | 5/16" x 100' Super Hi-Way Nubian | \$200 | \$146.95  |
| 62061 LFK31-100 | Reel for 100' tapes              | \$89  | \$65.95   |
| 19395 LFKO9200B | 5/16" x 200' Super Hi-Way Nubian | \$384 | \$282.95  |
| 11645 LFK31-200 | Reel for 200' tapes              | \$175 | \$127.95  |

### 2000 SERIES POWER TAPES

The lightweight, high-strength, chrome finished case is designed to fit perfectly in the hand. The toggle lock is positioned for convenient operation and holds the blade securely in any position.

| Item             | Description                          | MSRP | FLT PRICE |
|------------------|--------------------------------------|------|-----------|
| 21017 LFK2133D   | 33' x 1", ft 10ths, 100ths, inches   | \$32 | \$16.95   |
| 95823 LFK2133    | 33' x 1", ft inches                  | \$32 | \$16.95   |
| 12012 LFK2338CME | 8m x 3/4", inches, metric            | \$28 | \$14.95   |
| 75947 LFK2312D   | 12' x 3/4", ft 10ths, 100ths, inches | \$20 | \$11.95   |

### HI-VIZ 1000 SERIES POWER TAPES

Hi-Viz power tapes features a bright case that is lightweight and extremely strong. The toggle lock is positioned for convenient operation and holds the blade securely.

| Item               | Description                        | MSRP | FLT PRICE |
|--------------------|------------------------------------|------|-----------|
| 13958 LFKHV1425D   | 25' x 1", ft 10ths, 100ths, inches | \$22 | \$11.95   |
| 36088 LFKHV1425ED  | 25' x 1", ft 10ths, 100ths         | \$22 | \$11.95   |
| 86742 LFKHV1048CM  | 8m x 25mm, metric                  | \$25 | \$13.95   |
| 96089 LFKHV1048DM  | 8m x 25mm, 10ths, 100ths, metric   | \$25 | \$13.95   |
| 93259 LFKHV1410CME | 33' x 1", ft inches, metric        | \$25 | \$15.95   |
| 61332 LFKHV1433DM  | 33' x 1", ft 10ths, metric         | \$25 | \$15.95   |

### PRO-SERIES POWER TAPES

1" x 25' Pro Series 3000 power return tape features a Ny-Clad® blade coating that extends blade life 5 times longer than standard blades and patented end hook lasts 10 times longer than ordinary end hooks.

| Item             | Description                         | MSRP | FLT PRICE |
|------------------|-------------------------------------|------|-----------|
| 55246 LFKPS3425D | 25' x 1", ft, 10ths, 100ths, inches | \$33 | \$14.95   |
| 41808 LFKPS3425  | 25' x 1", ft, inches                | \$33 | \$14.95   |

## CST/berger

### PRO-SERIES POWER TAPES

The Pro-Series pocket tapes features a smooth gliding action with a positive thumb lock and release. Graduations are printed in large easy-to-read black numerals with the foot marking in red.

| Item             | Description                 | MSRP | FLT PRICE |
|------------------|-----------------------------|------|-----------|
| 67043 CHI78-B251 | 25' x 1", ft, 10ths, 100ths | \$12 | \$7.95    |

### ENGINEER'S SCALE WOOD RULES

| Item            | Description               | MSRP | FLT PRICE |
|-----------------|---------------------------|------|-----------|
| 13332 LFK1066D  | 6ft 10ths, 100ths, inches | \$21 | \$14.95   |
| 91634 LFK1066DM | 6ft 10ths, 100ths, metric | \$21 | \$16.95   |

### ARCHITECT'S STEEL TAPE

| Item          | Description              | MSRP | FLT PRICE |
|---------------|--------------------------|------|-----------|
| 35455 LFKW393 | 1/4" X 5' 1/4, 1/8 scale | \$29 | \$21.95   |

### ARTISIAN NUBIAN CLAD DIAMETER TAPES

| Item           | Description                                   | MSRP | FLT PRICE |
|----------------|---|------|-----------|
| 96999 LFK120TP | 3/8" X 20' Artisan tape with tree hook inches | \$86 | \$76.95   |
| 59936 LFK120P  | 3/8" X 20' Artisan tape inches                | \$86 | \$76.95   |



LFKPS1806D



LFKPS1808D



LFK31-100



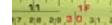
LFKO9200B



ft/10ths/inches



ft/inches



ft/inches/metric



ft/10ths/100ths/inches



ft/10ths/100ths



metric



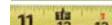
ft/10ths/100ths/metric



ft/inches/metric



ft/10ths/inches



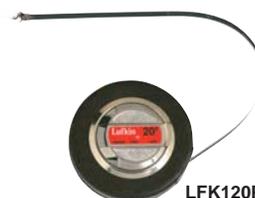
ft/inches



ft/10ths/100ths



LFK1066D



LFK120P



LFKW393

# DISTOS

**Leica** - when it has to be right  
Geosystems

Call for the **BEST QUOTE** Today

## Leica DISTO A2

This compact model is designed for indoor applications. Small and compact, the A2 fits into every pocket. Shortcut keys for addition, subtraction, area and volume calculation make measuring fast and reliable.

### FEATURES:

- Measuring range of 0.1 ft to 197 ft.
- Accuracy +/- 3 mm (1/8")
- Fits into every pocket
- Stakeout function allows you to stake-out equal distances

| Item            | Description       | MSRP     |
|-----------------|-------------------|----------|
| 53287 LCA750701 | DISTO A2 +/- 1/8" | \$229.00 |

**Small and compact**  
The Disto A2 is very ergonomic and fits into every pocket.



**Illuminated display**  
Makes measured values easy to read, even in the dark.



## Leica DISTO A3

The built in Power Range Technology allows you to measure 325 ft enabling you to use it for all indoor applications and a few applications outdoors. In addition to shortcut keys are minimum and maximum measurement functions which enable horizontal and diagonal measurements.

### FEATURES:

- Measuring range of 0.1 ft to 325 ft.
- Accuracy +/- 3 mm (1/8")
- Power Range Technology
- Continuous measurement feature

| Item            | Description       | MSRP     |
|-----------------|-------------------|----------|
| 76331 LCA740688 | DISTO A3 +/- 1/8" | \$299.00 |

**Built-in spirit level**  
Horizontal alignment made easy, such as for electrical sockets



**Power Range technology**  
Measure distances up to 325 ft without a target plate.



## Leica DISTO A5

A wide range of additional features such as an integrated 2x viewfinder, trigonometry functions, and more powerful laser make the A5 the most popular Disto sold today. Designed for both indoor and outdoor applications.

### FEATURES:

- Measuring range of 0.1 ft to 650 ft.
- Accuracy +/- 1.5 mm (1/16")
- Measure inaccessible heights and widths using flip-out end piece enabling you to measure corners and constricted areas.

| Item            | Description        | MSRP     |
|-----------------|--------------------|----------|
| 69949 LCA740689 | DISTO A5 +/- 1/16" | \$449.00 |

**For outdoor use**  
The integrated optical viewfinder enables long-distance measurements.



**Flip-out end piece**  
The built in sensor automatically determines the correct zero point.



## Leica DISTO A6

With the Disto A6, data can be electronically transferred to a Pocket PC or laptop via bluetooth connection. Disto transfer software (included) enables you to transfer values to Excel, Word, AutoCAD or other programs. Designed for both indoor and outdoor applications.

### FEATURES:

- Measuring range of 0.1 ft to 650 ft.
- Accuracy +/- 1.5 mm (1/16")
- Bluetooth capability
- Built-in 2x viewfinder

| Item            | Description        | MSRP     |
|-----------------|--------------------|----------|
| 79363 LCA751962 | DISTO A6 +/- 1/16" | \$649.00 |

**BLUETOOTH transfer**  
Forget paper and pencil!



**Disto transfer**  
Transfers measured data to Excel and AutoCAD.



## Leica DISTO A8

The digital viewfinder and integrated tilt sensor make the Disto A8 an innovation. The tilt sensor not only indicates angles, but also horizontal distances and indirect height measurements. The digital viewfinder makes it easy to find your target. Designed for both indoor and outdoor applications.

### FEATURES:

- Measuring range of 0.1 ft to 650 ft.
- Accuracy +/- 1.5 mm (1/16")
- Integrated tilt sensor
- Digital viewfinder finder with 3x zoom

| Item            | Description        | MSRP     |
|-----------------|--------------------|----------|
| 61905 LCA740692 | DISTO A8 +/- 1/16" | \$995.00 |

**Indirect heights**  
Using the tilt sensor and viewfinder heights can be determined indirectly



**Tilt sensor**  
Any tilt or slope can be measured by placing the housing on the slope





# LASER TOOLS

## TruPulse 200 Laser

A low-cost workhorse for professional measurement. The TruPulse 200 reflectorless laser rangefinder incorporates an integrated tilt sensor for height measurements, through-the-lens targeting, in-scope data display and advanced targeting modes to easily provide accurate distance and height data. The integrated tilt sensor provides accurate height measurements, even from the steepest angles, and the unit offers a choice between Closest, Farthest, Continuous or Filter modes for improved target acquisition. It calculates horizontal, vertical and slope distance with a single press of the fire button. The Trupulse can measure from 0 to 3280 ft (6600 ft with reflective target) with an accuracy of +/- 1 ft.

| Item             | Description  | MSRP  | FLT PRICE |
|------------------|--------------|-------|-----------|
| 77071 LTI7005055 | TruPulse 200 | \$749 | \$699.00  |



## PLS 5

Lay out reference points faster than traditional, labor intensive methods. The PLS5 generates 5 perfectly square beams: up, down, left, right, out. The PLS5 system includes: PLS5 laser unit, magnetic wall bracket, pendulum target, floor stand, compact carrying case, operating manual, 1 yr warranty.

| Item       | Description       | MSRP  | FLT PRICE |
|------------|-------------------|-------|-----------|
| 82712 PLS5 | PLS 5 laser level | \$495 | \$329.95  |

## PLS 3

Lay out reference points faster than traditional, labor intensive methods. The PLS3 generates 3 perfectly square beams: up, down, and out. The PLS3 system includes: PLS3 laser unit, wall bracket, carrying pouch, floor stand, compact carrying pouch, operating manual, 1 yr warranty.

| Item       | Description       | MSRP  | FLT PRICE |
|------------|-------------------|-------|-----------|
| 22423 PLS3 | PLS 3 laser level | \$265 | \$184.95  |

## PLS 180

Lay out reference points faster than traditional, labor intensive methods. The PLS180 generates either a perfectly plumb or horizontal beam or both for a full 180 degrees. The PLS180 system includes: PLS180 laser unit, carrying pouch, magnetic wall bracket, operating manual, 1 yr warranty.

| Item         | Description         | MSRP  | FLT PRICE |
|--------------|---------------------|-------|-----------|
| 88089 PLS180 | PLS 180 laser level | \$369 | \$299.95  |

## PLS 90E

The PLS90E is a precise 90 degree layout tool. Fully self leveling, the PLS90E is a unique laser level. No more 3-4-5. Use your PLS90E and our universal base-tripod adapter for fast, accurate and dependable square layout for flooring-tile, framing (metal stud or wood), concrete foundations, pads and more. The HVR500 package includes the laser, carrying case, RC500 remote control, ceiling bracket, laser detector, and 1 yr warranty.

### Specifications:

- Working range of 250'
- Self-leveling range of 5 degrees
- Accuracy: 1/8" @100'

| Item           | Description                   | MSRP  | FLT PRICE |
|----------------|-------------------------------|-------|-----------|
| 91194 PLS60512 | PLS 90E 90 degree layout tool | \$495 | \$349.00  |

## TRIPOD ADAPTER

Adapts 1/4" x 20 thread found on all PLS and Leica DISTO products to a standard 5/8" x 11 thread tripod.

| Item             | Description                           | MSRP | FLT PRICE |
|------------------|---------------------------------------|------|-----------|
| 91750 SPYQ101703 | 1/4" x 20 thread to 5/8" x 11 adapter | \$15 | \$12.95   |

## PLS HVR500

The PLS HVR 500 is a compact, mid range rotary laser designed for light commercial, residential, and remodeling projects. It can be used in both the horizontal and vertical axis. The PLS HVR 500 is versatile for short and mid range layout with an accuracy of 1/8 inch at 100 feet. **The HVR500 package includes the laser, carrying case, RC500 remote control, ceiling bracket, laser detector, and 1 yr warranty.**

### Specifications:

- Working range of 500'
- Self-leveling range of 5 degrees
- Accuracy: 1/8" @100'

| Item           | Description                    | MSRP  | FLT PRICE |
|----------------|--------------------------------|-------|-----------|
| 61905 PLS60510 | PLS HVR500 laser level package | \$695 | \$579.95  |



# FLAGGING & FIELD BAGS



**PRESCO**

## TEXAS FLAGGING

Superior to ordinary "contractor" or "utility" grade flagging, "Texas" grade flagging is constructed of high quality PVC. Our vibrant colors are the brightest available and are UV stabilized to resist fading. Flagging is 1 3/16" wide, 12 rolls per box, 144 rolls per case. Solid colors are 300' in length. Glo colors are 150'.

| Item          | Description            | Item          | Description          |
|---------------|------------------------|---------------|----------------------|
| 42732 FLG1220 | Red Glo                | 94613 FLG1201 | Red                  |
| 36051 FLG1222 | Orange Glo             | 21029 FLG1202 | Yellow               |
| 22239 FLG1206 | Black                  | 73155 FLG1203 | Blue                 |
| 53365 FLG1227 | Blue Glo               | 91077 FLG1204 | Green                |
| 24785 FLG1229 | Pink Glo               | 61750 FLG1205 | Orange               |
| 86928 FLG1234 | Lime Glo               | 77166 FLG1207 | White                |
| 82090 FLG1226 | Yellow Glo             | 15047 FLG2202 | Yellow/White         |
| 37536 FLG2201 | Red/White striped      | 63648 FLG2204 | Green/White striped  |
| 45590 FLG2203 | Blue/White striped     | 79809 FLG2205 | Orange/White striped |
| 43157 FLG2206 | Yellow/Black striped   |               |                      |
| 94944 FLG2229 | Pink glo/White striped |               |                      |

| SOLID COLORS |            |
|--------------|------------|
| Quantity     | Price/roll |
| 1-11 rolls   | \$1.15     |
| 12-143 rolls | \$1.05     |
| 144+ rolls   | \$0.99     |

| STRIPED COLORS |            |
|----------------|------------|
| Quantity       | Price/roll |
| 1-11 rolls     | \$1.59     |
| 12+ rolls      | \$1.49     |



## WIRE STAKE FLAGS

secured firmly to a wire 21" or 30" long. 100 flags/bundle. 10 bundles/box.

| Item                 | Description              | Item                 | Description              |
|----------------------|--------------------------|----------------------|--------------------------|
| 87532 PRS2321 B GLO  | 2" x 3" x 21" Blue glo   | 90455 PRS4530 B GLO  | 4" x 5" x 30" Blue glo   |
| 44635 PRS2321 BLUE   | 2" x 3" x 21" Blue       | 31138 PRS4530 BLACK  | 4" x 5" x 30" Black      |
| 76963 PRS2321 GREEN  | 2" x 3" x 21" Green      | 50070 PRS4530 BLUE   | 4" x 5" x 30" Blue       |
| 27695 PRS2321 L GLO  | 2" x 3" x 21" Lime glo   | 61389 PRS4530 GREEN  | 4" x 5" x 30" Green      |
| 83233 PRS2321 O GLO  | 2" x 3" x 21" Orange glo | 82104 PRS4530 L GLO  | 4" x 5" x 30" Lime glo   |
| 27485 PRS2321 ORANGE | 2" x 3" x 21" Orange     | 18881 PRS4530 O GLO  | 4" x 5" x 30" Orange glo |
| 93362 PRS2321 P GLO  | 2" x 3" x 21" Pink glo   | 80239 PRS4530 ORANGE | 4" x 5" x 30" Orange     |
| 51273 PRS2321 PURPLE | 2" x 3" x 21" Purple     | 14293 PRS4530 P GLO  | 4" x 5" x 30" Pink glo   |
| 19019 PRS2321 Red    | 2" x 3" x 21" Red        | 65021 PRS4530 RED    | 4" x 5" x 30" Red        |
| 54223 PRS2321 White  | 2" x 3" x 21" White      | 54796 PRS4530 White  | 4" x 5" x 30" White      |
| 54278 PRS2321 YELLOW | 2" x 3" x 21" Yellow     | 58670 PRS4530 Yellow | 4" x 5" x 30" Yellow     |



| 21" STAKE FLAGS |           |
|-----------------|-----------|
| Quantity        | FLT Price |
| 1-9 bundle      | \$5.95    |
| 10+ bundles     | \$5.45    |

| 30" STAKE FLAGS |           |
|-----------------|-----------|
| Quantity        | FLT Price |
| 1-9 bundle      | \$7.45    |
| 10+ bundles     | \$6.95    |



## AERIAL TARGETS AND PANELING

Presco 48" aerial targets use reinforced grommets allowing you to secure it a point of reference to mark a target position for a fly-over. Presco 24" x 300" aerial paneling has one side black and the other white or each side black and white. These panels are constructed of heavy weight material and can be reused.

| Item               | Description                              | MSRP | FLT PRICE |
|--------------------|--|------|-----------|
| 59215 PRS48 AERIAL | 48" "Iron cross" aerial target           | \$15 | \$10.95   |
| 53294 PRS24 AERIAL | 24" wide white and black aerial paneling | \$54 | \$48.95   |
| 64773 PRS24 BLACK  | 24" wide black aerial paneling           | \$42 | \$39.95   |
| 56600 PRS24 WHITE  | 24" wide white aerial paneling           | \$42 | \$39.95   |

## BARRICADE TAPE

| Item                 | Description         | MSRP | FLT PRICE |
|----------------------|---------------------|------|-----------|
| 41322 PRSCAUTION 300 | 300' Barricade tape | \$13 | \$4.95    |



## FIELD BAGS

Seco and Crain bags & cases are made to exacting standards from heavy-duty, water-repellent, 1000 denier nylon. Prism bags are heavily padded for prisms, tribrachs, and prism/target assemblies. Crain field bags and stake bags are constructed with extremely durable, 600 denier laminated backing, polyester fabric. This material resists sunlight, mildew, abrasion, and moisture. All Crain sewn products are made in the USA.

| Item               | Description                  | MSRP | FLT PRICE |
|--------------------|------------------------------|------|-----------|
| 85905 FLTPRISM BAG | Triple prism bag by Crain    | \$35 | \$20.95   |
| 79098 SEC8130      | Extra tall prism bag by Seco | \$58 | \$46.95   |
| 38885 MND91453     | 19" stake bag                | \$33 | \$25.95   |
| 61218 MND91454     | 23" stake bag                | \$35 | \$27.95   |
| 50492 MND91456     | 34" lath bag                 | \$26 | \$21.95   |
| 80696 MND91457     | 47" lath bag                 | \$30 | \$24.95   |
| 77503 MND91469     | 21" wire stake bag           | \$13 | \$9.95    |
| 90718 MND91470     | 30" wire stake bag           | \$14 | \$10.39   |

# MARKING PAINT



## “ORIGINAL WATER BASE” INVERTED PAINT

Seymour paint colors have been designed with the end user in mind. Improved colors retain their vivid color for a longer period of time, even in direct sunlight. Net wt. 17 oz. of paint in a 20 oz. capacity can. 12 cans/case.

| Item            | Description        | Item            | Description       |
|-----------------|--------------------|-----------------|-------------------|
| 58934 SEY20-679 | Pink fluorescent   | 30767 SEY20-671 | Red               |
| 87059 SEY20-655 | Safety green       | 27919 SEY20-663 | Black             |
| 74741 SEY20-657 | Orange fluorescent | 88143 SEY20-678 | HI-VIZ yellow     |
| 75114 SEY20-653 | Precaution blue    | 88069 SEY20-688 | Green fluorescent |
| 55105 SEY20-631 | Clear              | 24078 SEY20-631 | Red fluorescent   |
| 91051 SEY20-652 | White              | 27350 SEY20-669 | Blue fluorescent  |

| SEYMORE PAINT |            |
|---------------|------------|
| Quantity      | Price/roll |
| 1 can         | \$2.95     |
| 12 cans       | \$2.67     |
| 72 cans       | \$2.53     |
| 144 cans      | \$2.40     |



AS LOW AS  
**\$2.40** per can



## “SOLVENT BASED” INVERTED PAINT

Aervoe's Survey Marking Paint is a superior upside down marking paint that is designed for survey marking. It provides the best quality paint in terms of color visibility and retention, durability, and a lasting mark of up to six months. Net wt. 17 oz. of paint in a 20 oz. capacity can. 12 cans/case.

| Item         | Description | Item         | Description        |
|--------------|-------------|--------------|--------------------|
| 67162 AER200 | Clear       | 24004 AER212 | Purple             |
| 39735 AER201 | Red         | 47303 AER220 | Red fluorescent    |
| 36816 AER202 | Yellow      | 13309 AER222 | Orange fluorescent |
| 19316 AER203 | Blue        | 13047 AER224 | Green fluorescent  |
| 37399 AER204 | Green       | 20934 AER226 | Yellow fluorescent |
| 83955 AER206 | Black       | 87923 AER227 | Blue fluorescent   |
| 47684 AER207 | White       | 79673 AER229 | Pink fluorescent   |

| SEYMORE PAINT |            |
|---------------|------------|
| Quantity      | Price/roll |
| 1 can         | \$3.25     |
| 12 cans       | \$2.98     |
| 72 cans       | \$2.79     |



## INVERTED PAINT MARKING APPLICATORS

| Item         | Description                    | MSRP | FLT PRICE |
|--------------|--------------------------------|------|-----------|
| 23262 AER244 | Hand spot marking applicator   | \$15 | \$11.95   |
| 37618 AER245 | 36" rolling marking applicator | \$24 | \$20.95   |



## SPRAY CAN HOLDER

| Item                 | Description             | MSRP | FLT PRICE |
|----------------------|-------------------------|------|-----------|
| 78243 SEC8098-00-ORG | Canvas spray can holder | \$11 | \$8.95    |



# FIELD SUPPLIES

**CST/berger**

## PLUMB BOB SHEATHS

Heavily stitched and riveted for long life, these sheaths are made of top grain saddle leather.

| Item            | Description                          | MSRP   | FLT PRICE |
|-----------------|--------------------------------------|--------|-----------|
| 80995 CHI11-556 | Leather sheath for 8 to 12 oz. bobs  | \$6.50 | \$4.95    |
| 80492 CHI11-557 | Leather sheath for 14 to 16 oz bobs  | \$5.95 | \$5.75    |
| 37519 CHI11-558 | Leather sheath for 24 to 32 oz. bobs | \$9    | \$6.95    |

## BRASS PLUMB BOBS

Precision machined for perfect balance and lacquered for a lasting finish. Includes a hardened steel point with ASA thread.

| Item                | Description     | MSRP | FLT PRICE |
|---------------------|-----------------|------|-----------|
| 60251 FLT 8 OZ BOB  | 8 oz plumb bob  | \$18 | \$13.49   |
| 46068 FLT 12 OZ BOB | 12 oz plumb bob | \$20 | \$13.95   |
| 27051 FLT 14 OZ BOB | 14 oz plumb bob | \$21 | \$14.95   |
| 52848 FLT 16 OZ BOB | 16 oz plumb bob | \$22 | \$15.49   |
| 53830 FLT 18 OZ BOB | 18 oz plumb bob | \$24 | \$16.95   |
| 42130 FLT 24 OZ BOB | 24 oz plumb bob | \$30 | \$22.95   |
| 96210 FLT 32 OZ BOB | 32 oz plumb bob | \$39 | \$29.95   |
| 31092 FLT 80 OZ BOB | 80 oz plumb bob | \$99 | \$89.95   |



CHI11-556

CHI11-557

CHI11-558



## BRASS PLUMB BOB CAPS & POINTS

Precision machined for perfect balance and lacquered for a lasting finish. Includes a hardened steel point with ASA thread.

| Item                | Description                       | MSRP   | FLT PRICE |
|---------------------|-----------------------------------|--------|-----------|
| 63886 CHI11-55A     | Interchangeable plumb bob cap     | \$1.80 | \$1.49    |
| 37890 FLTP.B. POINT | Interchangeable plumb bob points  | \$1.20 | \$1.09    |
| 22056 CHI65-1507    | Plumb bob hook and point assembly | \$16   | \$14.95   |



CHI11-425

CHI11-431



## PLUMB BOB TARGETS

| Item            | Description                                       | MSRP   | FLT PRICE |
|-----------------|---|--------|-----------|
| 80414 CHI11-425 | 4" x 4" stick-on plumb bob target                 | \$1.30 | \$0.99    |
| 49073 CHI11-431 | 2" x 4" plastic notched target for plumb bob line | \$1.70 | \$1.19    |

## PAPER TARGETS

These org/wht adhesive targets are 2" x 3.5" and are often used as reference points.

| Item             | Description              | MSRP   | FLT PRICE |
|------------------|--------------------------|--------|-----------|
| 64041 SEC9000-02 | Stick-on targets 25/pack | \$5.95 | \$4.95    |



## TOOL POUCHES

Heavily stitched and riveted for long life, these sheaths are made of top grain saddle leather.

| Item            | Description  | MSRP | FLT PRICE |
|-----------------|--|------|-----------|
| 49306 CHI11-740 | 7 pocket surveyor's pouch                                  | \$30 | \$25.95   |
| 75474 CHI11-744 | 8 pocket nail & tool pouch, accommodates large field books | \$32 | \$27.95   |
| 37519 CHI11-743 | Heavy duty web belt  | \$6  | \$5.49    |



CHI11-740

CHI11-744



12' Gammon Reel



6.5' Gammon Reel

## GAMMON REELS

An aid to set up and deploy a clean, accurate plumb. Steel clock spring zips the string back into the case.

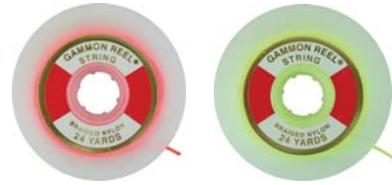
| Item                  | Description            | MSRP    | FLT PRICE |
|-----------------------|------------------------|---------|-----------|
| 36036 GAMREEL         | 6.5' gammon reel       | \$10.75 | \$7.95    |
| 87153 GAMCONSTRUCTION | 12' gammon reel        | \$13.75 | \$9.95    |
| 61688 GAM015          | Magnetic case for reel | \$12.75 | \$10.95   |

# FIELD SUPPLIES

## CST/berger GAMMON CORD

Heavily stitched and riveted for long life, these sheaths are made of top grain saddle leather.

| Item            | Description            | MSRP   | FLT PRICE |
|-----------------|------------------------|--------|-----------|
| 70699 GAMCORD-R | Red glo gammon cord    | \$5.50 | \$4.29    |
| 22680 GAMCORD-Y | Yellow glo gammon cord | \$5.50 | \$4.29    |



## SUUNTO REPLACING LUCK.

| Item                | Description  | MSRP  | FLT PRICE |
|---------------------|--|-------|-----------|
| 49967 SUNKB-20/360R | Precision compass. Durable plastic case with sighting eyepiece. Azimuth 0-360 deg model graduated in 1 degree units. Optical reading of bearing to target (and reverse).           | \$70  | \$62.95   |
| 93746 SUNKB-14/360Q | Precision compass. Machined aluminum housing with sighting eyepiece. Quadrant 0-90-0 deg. graduated in 1 deg. units.   | \$155 | \$116.95  |
| 76842 SUNKB-14/360R | Precision compass. Azimuth 0-360 deg. model graduated in 1/2 deg. units with optical reading of bearing to target (and reverse). Machined aluminum housing with sighting eyepiece. | \$155 | \$116.95  |
| 20391 SUNPM-5/360   | Precision clinometer. Scales: 0 +/- 90 deg. graduated in 1 deg. units. 0 +/- 150% (1% units). Machined aluminum housing with sighting eyepiece.                                    | \$165 | \$157.95  |



CHI17-630



CHI17-631



SEC4200



## CST/berger MAGNIFYING HAND LEVELS

| Item            | Description   | MSRP  | FLT PRICE |
|-----------------|---|-------|-----------|
| 62935 CHI17-630 | 8" 5x level with 1:100 stadia lines, solid brass construction. 2x magnification of level bubble | \$112 | \$89.95   |
| 43129 CHI17-631 | 6" 2x level with internal level bubble. Padded case included.                                   | \$63  | \$48.95   |



## MAGNIFYING HAND LEVEL

| Item          | Description  | MSRP  | FLT PRICE |
|---------------|--|-------|-----------|
| 73040 SEC4200 | The industry standard. Brass 6" 2x level with enclosed vial. Padded case included. | \$104 | \$83.95   |

## DOUBLE RIGHT ANGLE PRISM

Permits stepping off angles of 90 and 180 degrees with a center lens which permits foresight viewing. Slot in handle accommodates plumb bob cord. Leather case included.

| Item             | Description              | MSRP | FLT PRICE |
|------------------|--------------------------|------|-----------|
| 42795 SEC4900-00 | Double right angle prism | \$90 | \$75.95   |

## DIXON

### DIXON PERMANENT MARKERS

| Item          | Description              | MSRP    | FLT PRICE |
|---------------|--------------------------|---------|-----------|
| 89624 DXN8717 | Black redimarkers 12/box | \$23.40 | \$14.95   |
| 60665 DXN8711 | Red redimarkers 12/box   | \$23.40 | \$14.95   |

### DIXON LUMBER CRAYONS

| Item           | Description                   | MSRP   | FLT PRICE |
|----------------|-------------------------------|--------|-----------|
| 63304 DXN49400 | Black lumber crayon 12/box    | \$9.60 | \$6.95    |
| 36060 DXN52112 | Blue lumber crayon 12/box     | \$9.60 | \$6.95    |
| 94820 DXN52600 | Pink glo lumber crayon 12/box | \$9.60 | \$6.95    |
| 54833 DXN52012 | Red lumber crayon 12/box      | \$9.60 | \$6.95    |
| 55358 DXN49600 | Yellow lumber crayon 12/box   | \$9.60 | \$6.95    |
| 75522 DXN00500 | Lumber crayon holder          | \$5.15 | \$4.95    |



# FIELD SUPPLIES

## IDEAL MARKERS

| Item           | Description  | MSRP   | FLT PRICE |
|----------------|--|--------|-----------|
| 29424 FLTIDEAL | Patented valve action indelible black marker w/ replaceable tips | \$2.70 | \$2.39    |
| 29721 FLTTIP   | Replaceable tips for Ideal markers. 12/pkg                       | \$7.05 | \$5.95    |

## SANFORD SHARPIE MARKERS

| Item           | Description                     | MSRP   | FLT PRICE |
|----------------|---------------------------------|--------|-----------|
| 54156 SAN15001 | Sanford Sharpie king size. Each | \$2.29 | \$1.79    |

## SOKKIA™

### CONCRETE SCRIBE

| Item                  | Description                         | MSRP   | FLT PRICE |
|-----------------------|-------------------------------------|--------|-----------|
| 98809 FLTCONCRETE SCR | Premium scribe for etching concrete | \$5.00 | \$4.49    |

## CST/berger

### TALLY COUNTER

Four digit counter registers up to 9999; return numbers to zero with a twist of the reset knob. An audible click signals the count assuring a registered count without having to view the counter.

| Item            | Description           | MSRP    | FLT PRICE |
|-----------------|-----------------------|---------|-----------|
| 10836 CHI30-100 | 4-digit tally counter | \$12.80 | \$10.95   |

### CHAINING PINS

Chaining pins have painted red and white stripes to improve visibility and resist corrosion.

| Item                   | Description                     | MSRP    | FLT PRICE |
|------------------------|---------------------------------|---------|-----------|
| 14598 CHI04-501        | Chaining pins (set of 11)       | \$26.00 | \$19.95   |
| 42329 CHI04-501-SINGLE | Single chaining pin             | \$2.15  | \$1.95    |
| 72651 CHI04-511        | Carrying ring for chaining pins | \$11.00 | \$9.95    |

### FIBERGLASS PROBE

Protection against possible electrical shock when working around buried electrical lines. T-handle has high density nylon cover. Shaft is 48" long, 1/2" dia. Steel tip measures 5/8" x 3/4".

| Item           | Description          | MSRP    | FLT PRICE |
|----------------|----------------------|---------|-----------|
| 22565 PEC77543 | 48" fiberglass probe | \$24.95 | \$21.95   |

### STAKE CHASERS

The original 6" Whisker® Flag Available in red, blue orange glo, pink glo, yellow, green. Specifically designed to resist the abuse of the road grader. Price is per bundle of 25. 40 bundles/box. (1000 chasers/box)

| Item            | Color | Item             | Color      | Stake Chasers       |
|-----------------|-------|------------------|------------|---------------------|
| 89576 SMCBLUE   | Blue  | 21541 SMC PINK   | Pink Glo   | Quantity            |
| 92338 SMCRED    | Red   | 59617 SMC YELLOW | Yellow     | Price/bundle        |
| 18503 SMC GREEN | Green | 89832 SMC ORANGE | Orange Glo | 1-39 bundles \$2.49 |
|                 |       |                  |            | 40+ bundles \$2.29  |



FLTIDEAL



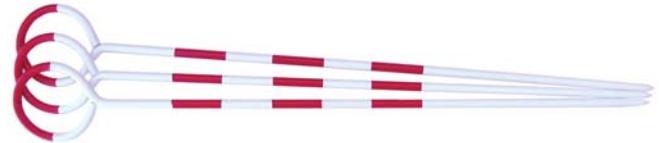
SAN15001



FLTCONCRETE SCR



CHI30-100



### SURVEYORS UMBRELLA

Heavy twill fabric umbrella. Six rib construction with a spread of 64". Pointed three-piece 1 1/4" tubular steel pole measures 98". Steel is finished with a baked epoxy covered with a baked aluminum enamel to resist rust.

| Item                   | Description                           | MSRP | FLT PRICE |
|------------------------|---------------------------------------|------|-----------|
| 98805 FLTUMBRELLA      | Heavy twill surveyors umbrella        | \$99 | \$79.95   |
| 76565 FLTRUR.P. TRIPOD | Heavy-duty umbrella/range pole tripod | \$90 | \$69.95   |

### SLEDGE HAMMER

For heavy pounding jobs. Forged, steel head with chamfered edges for added durability and 36" fiberglass handle for added strength.

| Item               | Description         | MSRP    | FLT PRICE |
|--------------------|---------------------|---------|-----------|
| 92607 FLTSLEDGE-8  | 8 lb sledge hammer  | \$22.00 | \$19.75   |
| 35702 FLTSLEDGE-10 | 10 lb sledge hammer | \$25    | \$22.45   |
| 57940 FLTSLEDGE-16 | 16 lb sledge hammer | \$35    | \$31.45   |



# FIELD SUPPLIES



## SMART LEVELS

Smart Tool levels are an indispensable aid for a wide variety of applications. The level will beep when level or plumb and maintain factory-perfect accuracy. It will read any angle in degrees, % slope, and pitch (in/ft: inches of rise per foot of run). Constructed of heavy duty aluminum and sealed with unbreakable ABS plastic, the Smart Level is guaranteed to last a lifetime.

| Item           | Description               | MSRP  | FLT PRICE |
|----------------|---------------------------|-------|-----------|
| 88503 SMR92288 | 24" Smart Level           | \$154 | \$138.95  |
| 38388 SMR92908 | 24" Smart Level case      | \$24  | \$21.95   |
| 36007 SMR92296 | 48" Smart Level           | \$175 | \$153.95  |
| 53495 JLTLC48  | 48" Smart Level hard case | \$14  | \$12.95   |



## PLUMB ENGINEER'S HAMMER

Double faced engineer's hammer is forged with high-quality steel, hardened and tempered for durability. The driving faces are precision machined and the Hickory hardwood handle will withstand heavy abuse.

| Item            | Description             | MSRP    | FLT PRICE |
|-----------------|-------------------------|---------|-----------|
| 78620 PMB11-527 | 40 oz engineer's hammer | \$19.00 | \$12.95   |
| 57030 PMB11-528 | 48 oz engineer's hammer | \$21.00 | \$13.95   |
| 56581 PMB11-529 | 64 oz engineer's hammer | \$24.00 | \$15.95   |



## ENGINEER'S MACHETE

The Nicholson 24" polished machete features a high carbon steel blade for durability and a lacquer clear-coated blade to resist corrosion. The handle is made out of high-impact plastic with smooth contour and texture to improve grip.

| Item             | Description                            | MSRP    | FLT PRICE |
|------------------|--|---------|-----------|
| 83840 NICMP12724 | 24" Nicholson Collins polished machete | \$10.50 | \$9.95    |
| 30037 PLY460-24  | 24" Express machete                    | \$8.95  | \$7.95    |



## LEATHER MACHETE SHEATH

| Item                 | Description            | MSRP | FLT PRICE |
|----------------------|------------------------|------|-----------|
| 55517 FLTMACH SHEATH | Leather machete sheath | \$20 | \$17.95   |



## ACCUSHARP SHARPENER

| Item               | Description                 | MSRP | FLT PRICE |
|--------------------|-----------------------------|------|-----------|
| 73660 FLTACCUSHARP | Knife and machete sharpener | \$14 | \$11.95   |



## MANHOLE HOOK

| Item                  | Description      | MSRP | FLT PRICE |
|-----------------------|------------------|------|-----------|
| 14058 FLTMANHOLE HOOK | 26" Manhole hook | \$26 | \$21.95   |



## REDTOP GAD

| Item        | Description            | MSRP | FLT PRICE |
|-------------|------------------------|------|-----------|
| 93981 RTGAD | Red top gad or bullpin | \$26 | \$21.95   |



## FLAT BASTARD FILE

Nicholson flat bastard cut file

| Item           | Description        | MSRP | FLT PRICE |
|----------------|--------------------|------|-----------|
| 26757 NIC08737 | 12" Nicholson file | \$13 | \$10.95   |
| 72124 NIC08832 | 14" Nicholson file | \$18 | \$14.95   |



## HANSON STEEL SET

Each stamp is placed in a separate compartment set in a plastic box. Letter Sets - Includes 26 letters (A-Z) plus an ampersand. Number Sets - Includes 9 stamps (0-9), invert the 9 for the 6.

| Item           | Description            | MSRP    | FLT PRICE |
|----------------|------------------------|---------|-----------|
| 62727 HSN20200 | 1/8" steel letter set  | \$45    | \$35.95   |
| 68261 HSN20250 | 3/16" steel letter set | \$55    | \$44.95   |
| 64424 HSN20300 | 1/4" steel letter set  | \$66.50 | \$53.95   |
| 99220 HSN20350 | 3/8" steel letter set  | \$97.60 | \$73.95   |
| 10132 HSN20541 | 1/8" steel number set  | \$15.25 | \$11.95   |
| 39630 HSN20561 | 3/16" steel number set | \$18.50 | \$14.95   |
| 47169 HSN20581 | 1/4" steel number set  | \$23    | \$17.95   |
| 33983 HSN20601 | 3/8" steel number set  | \$33    | \$24.95   |



# FIELD SUPPLIES



## SOKKIA BRASS SURVEY MARKERS

These premium brass markers are made of malleable alloy and accept hand stamping well.

| Item             | Description  | MSRP   | FLT PRICE |
|------------------|--------------|--------|-----------|
| 54747 SOK8134-03 | 2" flat      | \$7.50 | \$6.29    |
| 90591 SOK8134-06 | 2-1/2" flat  | \$8.00 | \$6.89    |
| 60183 SOK8134-08 | 3" flat      | \$8.50 | \$7.39    |
| 57699 SOK8134-13 | 2" domed     | \$7.50 | \$6.19    |
| 54923 SOK8134-16 | 2-1/2" domed | \$8.50 | \$7.29    |
| 67759 SOK8134-18 | 3" domed     | \$9.50 | \$8.09    |

## CST/berger

### BRASS SURVEY MARKERS

These brass markers have a machined finish and are a harder alloy than the Sokkia markers. They are perfect for engraving, less suitable for hand stamping. Sizes of 1 3/8", 2", 2-1/2" available by special order.

| Item            | Description                 |
|-----------------|-----------------------------|
| 39180 CHI20-703 | 3" flat head survey marker  |
| 23085 CHI20-707 | 3" domed head survey marker |

| Flat Survey Markers |        | Domed Survey Markers |        |
|---------------------|--------|----------------------|--------|
| Quantity            | Price  | Quantity             | Price  |
| 1-96                | \$5.95 | 1-96                 | \$6.95 |
| 96+                 | \$4.95 | 96+                  | \$5.95 |



## MARK-IT ALUMINUM REBAR MARKERS & MARKERS

Flat aluminum rebar markers with plastic insulators adhere easily and securely when installed by several strikes of a hammer. Pre-stamping is available at no charge.

| Item                 | Description                    | MSRP   | FLT PRICE |
|----------------------|--------------------------------|--------|-----------|
| 48919 MRK1530        | 2" flat survey marker          | \$3.45 | \$2.29    |
| 38483 MRKRB4-1-1/2PI | 1-1/2" flat top for 1/2" rebar | \$3.95 | \$2.95    |
| 54296 MRKRB4-2PI     | 2" flat top for 1/2" rebar     | \$3.95 | \$3.29    |
| 49189 MRKRB5-1/2PI   | 1-1/2" flat top for 5/8" rebar | \$4.50 | \$2.95    |
| 24199 MRKRB5-2PI     | 2" flat top for 5/8" rebar     | \$4.50 | \$3.29    |

## PLASTIC IMPRINTED REBAR MARKERS

Up to two lines of information can be printed on the cap and allow approx 10 days for manufacturing. Markers are available in red, yellow, orange, and blue with black lettering. The minimum order quantity is 100 and additional caps must be ordered in multiples of 100.

| MODEL | DESCRIPTION                  | PRICE     |
|-------|------------------------------|-----------|
| PLM-3 | Fits 3/8" rebar or 1/2" pipe | \$0.27 ea |
| PLM-4 | Fits 1/2" rebar or 3/4" pipe | \$0.28 ea |
| PLM-5 | Fits 5/8" rebar or 1" pipe   | \$0.30 ea |
| PLM-6 | Fits 3/4" rebar              | \$0.31 ea |



## SURVEY NAIL MARKER

Markers are available in brass, aluminum and colored aluminum (red, gold, green, blue, orange). Numbering and lettering are available in sizes of 1/16", 3/32", 1/8", 3/16", 1/4" and 1/2". Markers can have up to five lines with a center hole size of 1/8", 3/16", or 1/4".

| STYLE | DESCRIPTION   | ALUMINUM                            | COLORED ALUM                        | BRASS                               |
|-------|---------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 90    | 3/4" marker   | \$129.00 qty 500; \$179.00 qty 1000 | \$149.00 qty 500; \$199.00 qty 1000 | \$159.00 qty 500; \$219.00 qty 1000 |
| 85    | 1" marker     | \$129.00 qty 500; \$179.00 qty 1000 | \$149.00 qty 500; \$199.00 qty 1000 | \$159.00 qty 500; \$219.00 qty 1000 |
| 91    | 1 1/8" marker | \$129.00 qty 500; \$179.00 qty 1000 | \$149.00 qty 500; \$199.00 qty 1000 | \$159.00 qty 500; \$219.00 qty 1000 |
| 137   | 1 1/4" marker | \$129.00 qty 500; \$179.00 qty 1000 | \$149.00 qty 500; \$199.00 qty 1000 | \$159.00 qty 500; \$219.00 qty 1000 |
| 81    | 1 1/2" marker | \$149.00 qty 500; \$209.00 qty 1000 | \$169.00 qty 500; \$229.00 qty 1000 | \$179.00 qty 500; \$309.00 qty 1000 |

## NAILS & SPIKES

| Item                | Description                  | MSRP   | FLT PRICE |
|---------------------|------------------------------|--------|-----------|
| 68487 FLT40D        | 40D Bright Common Nail       | \$1.40 | \$0.99/lb |
| 15316 FLT60D        | 60D Bright Common Nail       | \$1.50 | \$1.10/lb |
| 51300 SOK8132-64    | Galvanized 8" monument spike | \$2.09 | \$1.99/ea |
| 63872 FLTRR SPIKE-1 | 6" Railroad spike            | \$1.50 | \$0.86/ea |



## P.K. NAILS

Hardened masonry nails are cadmium plated to resist rust and increase visibility.

| Item           | Description               | MSRP    | FLT PRICE |
|----------------|---------------------------|---------|-----------|
| 78455 PK 3/4   | Box of 100 3/4" x 1/8"    | \$5.45  | \$3.95    |
| 81756 PK 1     | Box of 100 1" x 5/32"     | \$9.00  | \$5.95    |
| 31378 PK 1-1/4 | Box of 100 1-1/4" x 3/16" | \$13.25 | \$8.95    |
| 45948 PK 1-1/2 | Box of 100 1-1/2" x 1/4"  | \$18.00 | \$11.95   |
| 69309 PK 2     | Box of 100 2" x 1/4"      | \$20.50 | \$13.95   |
| 49408 PK 2-1/2 | Box of 100 2-1/2" x 1/4"  | \$25.00 | \$16.95   |



## MAG NAILS

ChrisNik's hardened MAG NAILS are becoming the preferred nail among surveyors. An induced magnetic field has quadrupled the detectability.

| Item            | Description               | MSRP    | FLT PRICE |
|-----------------|---------------------------|---------|-----------|
| 40902 MAG 3/4   | Box of 100 3/4" x 1/8"    | \$5.45  | \$3.95    |
| 80280 MAG 1     | Box of 100 1" x 5/32"     | \$8.50  | \$5.95    |
| 58862 MAG 1-1/4 | Box of 100 1-1/4" x 3/16" | \$11.39 | \$8.95    |
| 59717 MAG 1-1/2 | Box of 100 1-1/2" x 1/4"  | \$15.00 | \$11.95   |
| 41901 MAG 2     | Box of 100 2" x 1/4"      | \$18.50 | \$13.95   |
| 87418 MAG 2-1/2 | Box of 100 2-1/2" x 1/4"  | \$22.75 | \$16.95   |

## SURVEYORS (CUP) TACKS

Steel, 3/4" length, bright finish and zinc plated. Indentation in head to guide plumb bob point. 1 Lb box (approximately 725 tacks).

| Item           | Description          | MSRP   | FLT PRICE |
|----------------|----------------------|--------|-----------|
| 40518 CRSTACK  | Premium tacks        | \$9.00 | \$7.65    |
| 16599 TACKBALL | Tack ball with strap | \$8.95 | \$6.95    |

# STAKES & SUPPLIES



## FREE DELIVERY ON STAKE ORDERS OF \$350 OR MORE

For Monroe, Miami-Dade, Broward, Palm Beach, Martin, St. Lucie, Indian River, Collier, Lee Counties, Charlotte, Collier, Glades, and Hendry Counties

### WOOD STAKES

| Item  | Description | Quantity  | FLT PRICE |
|-------|-------------|-----------|-----------|
| 41054 | 1x2x6"      | 50 pieces | \$9.95    |
| 47678 | 1x2x8"      | 50 pieces | \$10.95   |
| 28339 | 1x2x12"     | 50 pieces | \$12.50   |
| 34544 | 1x2x18"     | 50 pieces | \$15.50   |
| 31832 | 1x2x24"     | 25 pieces | \$10.00   |
| 56248 | 1x2x36"     | 25 pieces | \$14.25   |
| 26002 | 1x2x48"     | 25 pieces | \$19.00   |
| 98260 | 1x2x60"     | 25 pieces | \$26.00   |
| 31099 | 1x2x72"     | 25 pieces | \$32.50   |



### WOOD HUBS

| Item  | Description | Quantity  | FLT PRICE |
|-------|-------------|-----------|-----------|
| 50065 | 2x2x6"      | 50 pieces | \$15.00   |
| 98784 | 2x2x8"      | 50 pieces | \$16.50   |
| 41099 | 2x2x12"     | 25 pieces | \$11.00   |
| 89765 | 2x2x18"     | 25 pieces | \$13.00   |
| 87042 | 2x2x24"     | 25 pieces | \$15.00   |



10% Quantity Discount on 40 or more bundles per order!!

### REBAR

| Item  | Description | Quantity  | FLT PRICE |
|-------|-------------|-----------|-----------|
| 65162 | 1/2 x 12"   | 10 pieces | \$8.40    |
| 27675 | 1/2 x 18"   | 10 pieces | \$12.00   |
| 14289 | 5/8 x 12"   | 10 pieces | \$9.60    |
| 72701 | 5/8 x 18"   | 10 pieces | \$14.40   |



### WOOD LATH

| Item  | Description | Quantity  | FLT PRICE |
|-------|-------------|-----------|-----------|
| 33741 | 7/16x2x24"  | 50 pieces | \$10.00   |
| 56244 | 7/16x2x36"  | 50 pieces | \$18.75   |
| 50414 | 7/16x2x48"  | 50 pieces | \$23.50   |
| 76242 | 1x1x36"     | 50 pieces | \$19.00   |
| 21694 | 1x1x48"     | 50 pieces | \$22.00   |

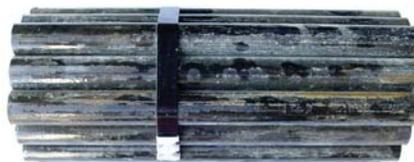


### IRON PIPE

| Item  | Description | Quantity  | FLT PRICE |
|-------|-------------|-----------|-----------|
| 55397 | 1/2x10"     | 25 pieces | \$28.00   |
| 91682 | 1/2x12"     | 25 pieces | \$30.00   |
| 62930 | 1/2x14"     | 25 pieces | \$32.00   |
| 16468 | 1/2x16"     | 25 pieces | \$36.00   |
| 63418 | 1/2x18"     | 25 pieces | \$39.00   |

### IRON PIPE SPECIAL ORDER

| Item  | Description   | Quantity  | FLT PRICE |
|-------|---------------|-----------|-----------|
| 34405 | 3/4" per ft   | 25 pieces | call      |
| 20132 | 1" per ft     | 25 pieces | call      |
| 93395 | 1 1/4 per ft  | 25 pieces | call      |
| 36852 | 1 1/2" per ft | 25 pieces | call      |



### CONCRETE MONUMENTS

| Item  | Description | Quantity | FLT PRICE |
|-------|-------------|----------|-----------|
| 61983 | 4x4x24"     | each     | \$10.00   |



### SLEDGE HAMMERS

For heavy pounding jobs. Forged, steel head with chamfered edges for added durability and 36" fiberglass handle for added strength.

| Item               | Description         | MSRP    | FLT PRICE |
|--------------------|---------------------|---------|-----------|
| 92607 FLTSLEDGE-8  | 8 lb sledge hammer  | \$24.50 | \$23.95   |
| 86427 FLTSLEDGE-10 | 10 lb sledge hammer | \$26    | \$25.95   |
| 57940 FLTSLEDGE-16 | 16 lb sledge hammer | \$35    | \$34.95   |



### NAILS & RAILROAD SPIKES

| Item  | Description | Quantity | FLT PRICE |
|-------|-------------|----------|-----------|
| 74688 | 6" Spike    | each     | \$1.40    |
| 27175 | 6" Spike    | 100 lbs  | \$160.00  |
| 68487 | FLT40D      | lb       | \$0.99    |
| 15316 | FLT60D      | lb       | \$1.09    |
| 92020 | FLT80D      | lb       | \$1.39    |



Coast to coast...  
Your new source for  
wood and rebar

fast delivery and superior service

# SAFETY EQUIPMENT



## CLASS 3 SURVEYOR'S SAFETY VEST

ANSI compliant class 3 vest made of 100% polyester with a cool, breathable, mesh back. Solid fabric front. Vest has pockets on inside and out and comes with highly reflective stripes. Pictured in orange color.

| Item               | Description                             | MSRP    | FLT PRICE |
|--------------------|---|---------|-----------|
| 88176 MUT88100-103 | Class 3 mesh back with sleeves, size L  | \$36.50 | \$31.95   |
| 42102 MUT88100-104 | Class 3 mesh back with sleeves, size XL | \$36.50 | \$31.95   |



## CLASS 2 SURVEYOR'S SAFETY VEST

Our most popular vest! ANSI compliant class 2 vest made of 100% polyester with a cool, breathable, mesh back. Solid fabric front. Vest has pockets on inside and out and comes with highly reflective stripes.

| Item             | Description                   | MSRP | FLT PRICE |
|------------------|-------------------------------|------|-----------|
| 15144 MUT163091  | Class 2 mesh back orange, S   | \$30 | \$24.95   |
| 75231 MUT163092  | Class 2 mesh back orange, M   | \$30 | \$24.95   |
| 56460 MUT163093  | Class 2 mesh back orange, L   | \$30 | \$24.95   |
| 21568 MUT163093L | Class 2 mesh back lime, L     | \$30 | \$24.95   |
| 82705 MUT163094  | Class 2 mesh back orange, XL  | \$30 | \$24.95   |
| 62876 MUT163094L | Class 2 mesh back lime, XL    | \$30 | \$24.95   |
| 17205 MUT163095  | Class 2 mesh back orange, XXL | \$30 | \$24.95   |
| 16926 MUT163095L | Class 2 mesh back lime, XXL   | \$30 | \$24.95   |



## LIGHTWEIGHT SAFETY VEST

Breathable, cool, orange mesh. One size fits all. 100% polyester.

| Item             | Description                           | MSRP   | FLT PRICE |
|------------------|---------------------------------------|--------|-----------|
| 20026 STY0104193 | Orange mesh with reflective stripping | \$8.50 | \$7.95    |
| 50237 STY0104143 | Orange mesh                           | \$5.75 | \$4.95    |



## HARD HAT

ANSI compliant type 1 ratchet hard hat. Adjustable size using ratchet clamp. Comfortable nylon strap suspension. Padded sweat band.

| Item             | Description             | MSRP    | FLT PRICE |
|------------------|-------------------------|---------|-----------|
| 32569 STY3013392 | White ratchet hard hat  | \$10.50 | \$7.95    |
| 47094 STY3013398 | Orange ratchet hard hat | \$10.50 | \$7.95    |
| 19917 STY3013400 | Yellow ratchet hard hat | \$10.50 | \$7.95    |

## DELUXE FIRST AID KIT

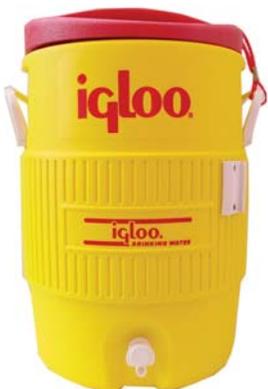
Each kit contains: (100) Plastic strips; 1 1/2" x 5 Yd Tape, (1) 5" x 9" Trauma Pad; (1) 2" Gauze Roll; (1) Triangular bandage; (10) First Aid Cream Foil packs; (1) Cold Pack; (1) Tweezer; (1) Scissor; (1) First Aid Chart; (1) Pair of Gloves; (5) 3" x 3" Gauze Pads; (2) Eye Pads; (6) Antiseptic Wipes; (2) Ammonia Inhalants; (1) pack of rolled cotton.

| Item         | Description   | MSRP    | FLT PRICE |
|--------------|---------------|---------|-----------|
| 32688 ESE532 | First aid kit | \$27.00 | \$18.95   |

## IGLOO WATER COOLERS

Wide mouth pressure fit lid for easy filling. Keeper cord prevents lid loss. Igloo delivers cold, clean water. Rugged, durable Igloo 400 Series Industrial Strength Water Coolers keep water cold, clean and available. Built for the real world® the 400 Series takes the abuse of the toughest job site and the most punishing work crews.

| Item         | Description  | MSRP    | FLT PRICE |
|--------------|--|---------|-----------|
| 22772 IGL451 | Heavy duty industrial grade 5 gallon Igloo® cooler | \$59.95 | \$32.95   |
| 59846 IGL431 | Heavy duty industrial grade 3 gallon Igloo® cooler | \$39.99 | \$27.95   |



# SAFETY EQUIPMENT

## 48" HEAVY-DUTY ROAD SIGNS

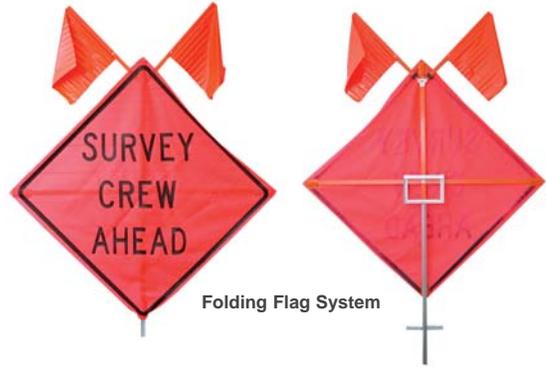
48" fluorescent mesh roll-up signs. Rib pockets are made of 18 oz durable vinyl. Ribs, flags, and "T" stand sold separately.

| Item                   | Description         | MSRP    | FLT PRICE |
|------------------------|---------------------|---------|-----------|
| 91378 STY48 MEN WORK   | "Men Working"       | \$39.50 | \$35.95   |
| 56487 STY48 STAYINLANE | "Stay in Your Lane" | \$39.50 | \$35.95   |
| 71348 STY48 SYMBOL     | Men working symbol  | \$39.50 | \$35.95   |
| 20425 STY48 SURV CREW  | "Survey Crew Ahead" | \$39.50 | \$35.95   |

## FOLDING FLAG SYSTEM

48" sign ribs with two 18" vinyl folding flags. Mounts to "T" stand. Sign and "T" stand sold separately.

| Item             | Description         | MSRP    | FLT PRICE |
|------------------|---------------------|---------|-----------|
| 69742 STY2195342 | Folding flag system | \$40.00 | \$37.95   |



Folding Flag System



Fiberglass sign ribs



T-stand for road signs

## QUADRA FLEX SIGN KIT

Spring loaded sign displays 48" roll-up panels 14" off the ground. Durable, lightweight, and corrosion resistant. for easy handling and long life. Sign not included.

| Item             | Description                               | MSRP  | FLT PRICE |
|------------------|---|-------|-----------|
| 30404 STY2083660 | Quadra flex V sign stand kit for 48" sign | \$215 | \$209.95  |

## TRAFFIC CONES

Tough, weatherproof orange PVC traffic cones have a tip-resistant, weighted base. Maintenance-free, non-fading PVC resists peeling, cracks and moisture. Meets MUTCD standards. 36" cones with reflective collars are DOT approved.

| Item                | Description                              | MSRP | FLT PRICE |
|---------------------|--|------|-----------|
| 96537 STY12 CONE    | 12" traffic cone                         | \$8  | \$5.95    |
| 73856 STY18 CONE    | 18" traffic cone                         | \$12 | \$6.95    |
| 47634 STY28 CONE    | 28" traffic cone                         | \$18 | \$11.95   |
| 38504 STY36 CONE    | 36" traffic cone                         | \$25 | \$17.95   |
| 78148 STY12 CONE-WC | 36" traffic cone with reflective collars | \$38 | \$25.95   |

## WARNING FLAGS

Vinyl coated nylon flag on 7/8" diameter wooden staff with fluorescent red-orange color.

| Item               | Description                          | MSRP   | FLT PRICE |
|--------------------|--------------------------------------|--------|-----------|
| 12333 STYKNIT FLAG | 18" mesh flag, 24" handle            | \$4.50 | \$3.95    |
| 78271 STYFLAG24    | 24" vinyl flag with stay, 36" handle | \$5.75 | \$4.95    |
| 70028 STYFLAG      | 18" vinyl flag with stay, 24" handle | \$3.25 | \$2.95    |

## 48" RIBS FOR ROAD SIGNS

Heavy-duty fiberglass ribs for road signs.

| Item          | Description                        | MSRP    | FLT PRICE |
|---------------|------------------------------------|---------|-----------|
| 32966 STYMB48 | 48" fiberglass ribs for road signs | \$15.50 | \$12.33   |

## GALVANIZED STEEL "T" STAND

T-stand for use with road signs and includes stainless steel clips which lock sign ribs securely into place.

| Item                | Description            | MSRP    | FLT PRICE |
|---------------------|------------------------|---------|-----------|
| 37667 STYTSTR STAND | T stand for road signs | \$36.50 | \$32.95   |



Quadra Flex



## ROTATING STROBE LIGHTS

| Item             | Description  | MSRP  | FLT PRICE |
|------------------|--|-------|-----------|
| 87232 STY2057784 | Heavy-duty high intensity flashing strobe with magnetic/suction pad base. Xenon flash tube with 74,000 candlepower and 60 flashes per minute. 7 1/4" tall and 4 3/4" base. Plugs into car for power. | \$209 | \$189.95  |
| 68253 STY2078829 | Xenon replacement bulb for STY2057784 strobe.  | \$22  | \$19.75   |
| 16965 STY2059419 | Rotating light with magnetic/suction pad base. Quartz-halogen bulb with 12,000 candlepower. 7 1/4" tall and 4 3/4" base. Plugs into car for power.   | \$95  | \$89.95   |
| 21385 STY0101335 | Quartz-halogen replacement bulb for STY2059419 rotating strobe.  | \$25  | \$19.75   |
| 74714 STY2212279 | Micro burst mini strobe with magnetic mount. 60 flashes per minute. 3 yr warranty including bulb. Plugs into car for power. 3 1/2" tall and 4" diameter base.  | \$127 | \$119.95  |



STY2059419

STY2057784

STY2212279

# FIELD BOOKS



## FLT CUSTOM BOOKS

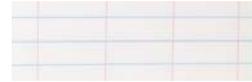
FLT field books are custom made for us by Elan Publishing. They are identical to Elan's books in every respect except for the yellow binding, FLT logo, and the outstanding price! Made with 50% cotton-content ledger paper, specially treated for maximal archival service, and protected by a water resistant surface sizing. 80 leaves, 160 pages. Yellow waterproof cover.

AS LOW AS  
**\$5.95**



| Item          | Style            | Page Size       | Description                               | MSRP    | FLT PRICE |
|---------------|------------------|-----------------|---|---------|-----------|
| 57095 FLT8416 | Field/Transit; A | 4 5/8" x 7 1/2" | Standard Field Book (Elan E64-8x4)        | \$7.35  | \$5.95    |
| 23118 FLT8418 | Field/Transit; A | 6" x 9"         | Large Field Book (Elan 64-8x4K)           | \$11.75 | \$7.95    |
| 85136 FLT8411 | Cross-section; B | 6 1/2" x 8 1/2" | Large Cross Section Book (Elan E10x10k)   | \$11.75 | \$7.95    |
| 93917 FLT8400 | Level Book; C    | 4 1/8" x 6 1/2" | Pocket-Size Level Book (Elan E64-64M)     | \$7.35  | \$5.95    |
| 36253 FLT8414 | Level Book; C    | 4 5/8" x 7 1/4" | Standard Level Book (Elan E64-64)         | \$7.35  | \$5.95    |
| 63267 FLT8410 | Engineer's; D    | 4 5/8" x 7 1/4" | Standard Eng. Field Book (Elan E64-10x10) | \$7.35  | \$5.95    |

A



six vertical columns



8x4 to the inch

B

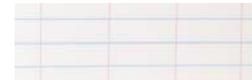


10 x 10 to the inch

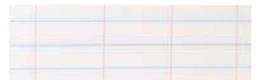


10 x 10 to the inch

C

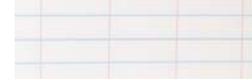


six vertical columns



six vertical columns

D



six vertical columns



10 x 10 to the inch



## NATIONAL PRINTFAST

National Printfast field books are printed in waterproof ink on heavy, water resistant rag stock. 80 leaves, 160 pages. Yellow vinyl cover.

| Item         | Style            | Page Size       | Description              | MSRP    | FLT PRICE |
|--------------|------------------|-----------------|--------------------------|---------|-----------|
| 38117 NTL416 | Field/Transit; A | 4 1/2" x 7 1/4" | Standard Field Book      | \$10.88 | \$8.49    |
| 76268 NTL418 | Field/Transit; A | 5 3/4" x 9"     | Large Field Book         | \$17.35 | \$12.95   |
| 49342 NTL411 | Cross-section; B | 6 1/2" x 8 3/8" | Large Cross Section Book | \$17.35 | \$12.95   |

A



six vertical columns



8x4 to the inch

B



10 x 10 to the inch



10 x 10 to the inch



## ELAN PUBLISHING CO.

### ELAN PUBLISHING CO.

Elan field books are published on a fine 50% cotton-content ledger paper, specially treated for maximum archival service, and protected by a water resistant surface sizing. 80 leaves, 160 pages. Orange waterproof cover.

| Item              | Style            | Page Size       | Description              | MSRP | FLT PRICE |
|-------------------|------------------|-----------------|--------------------------|------|-----------|
| 69648 ELNE10X10K  | Cross-section; A | 6 1/2" x 8 1/2" | Large Cross Section Book | \$11 | \$8.95    |
| 92600 ELNE64-8X4  | Field/Transit; B | 4 5/8" x 7 1/4" | Standard Field Book      | \$8  | \$6.95    |
| 69171 ELNE64-8X4K | Field/Transit; B | 6" x 9"         | Large Field Book         | \$11 | \$8.95    |

A



10 x 10 to the inch



10 x 10 to the inch

B



six vertical columns



8x4 to the inch

# FIELD BOOKS



## “Rite in the Rain”

“Rite in the Rain” field books are published with all-weather writing paper. This premium book is used around the world for recording critical data in all kinds of weather. 80 leaves, 160 pages. Yellow waterproof Fabrikoid cover.

| Item            | Style         | Page Size       | Description              | MSRP    | FLT PRICE |
|-----------------|---------------|-----------------|--------------------------|---------|-----------|
| 57505 RIR350F   | Field/Transit | 4 5/8" x 7 1/4" | Field Book               | \$16.95 | \$14.95   |
| 23546 RIR300F   | Field/Transit | 4 5/8" x 7 1/4" | Transit Book             | \$16.95 | \$14.95   |
| 91254 RIR310F   | Level Book    | 4 5/8" x 7 1/4" | Level Book               | \$16.95 | \$14.95   |
| 82582 RIR370-6F | Cross-section | 6 1/2" x 8 1/2" | Large Cross Section Book | \$19.95 | \$18.95   |



A



six vertical columns

4x4 to the inch

B



six vertical columns

8x4 to the inch

C



six vertical columns

six vertical columns

D



10 x 10 to the inch

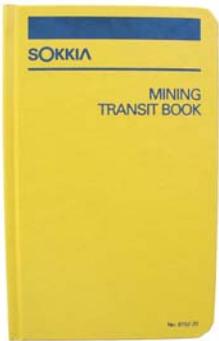
10 x 10 to the inch



## FLT CUSTOM BOOKS

Sokkia field books with rain resistant fine quality ledger paper are hard-bound in high visibility chrome yellow coated fabric. Each book contains 80 leaves printed in water proof ink. Also included is an Appendix of 11 tables of conversions, trigonometric functions, and formulae for solving right angles and curves.

| Item             | Style             | Page Size       | Description              | MSRP    | FLT PRICE |
|------------------|-------------------|-----------------|--------------------------|---------|-----------|
| 39776 SOK8152-30 | Engineer's; A     | 4 1/4" x 7 1/4" | Standard Engineer's Book | \$10.35 | \$7.95    |
| 64474 SOK8152-20 | Mining/Transit; B | 4 1/4" x 7 1/4" | Mining Transit Book      | \$10.35 | \$7.95    |
| 30642 SOK8152-55 | Level; C          | 4 1/4" x 7 1/4" | Level Book               | \$10.35 | \$7.95    |
| 23821 SOK8152-75 | Cross-section; D  | 6 1/4" x 8 1/2" | Large Cross Section Book | \$16.00 | \$12.95   |
| 89578 SOK8152-10 | Economy; E        | 4 1/4" x 7 1/4" | Economy Field Book       | \$5.95  | \$4.95    |
| 83379 SOK8152-05 | Economy; F        | 4 1/4" x 7 1/4" | Economy Field Book       | \$5.95  | \$4.95    |



A



six vertical columns

10 x 10 to the inch

B



six vertical columns

8x8 to the inch

C



six vertical columns

six vertical columns

D



10 x 10 to the inch

10 x 10 to the inch

E



six vertical columns

8x4 to the inch

F



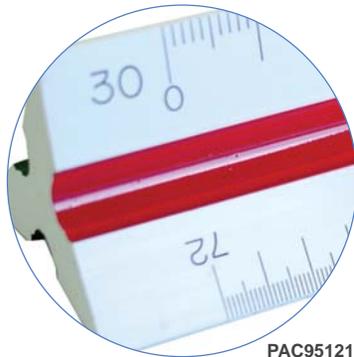
six vertical columns

8x4 to the inch

# DRAFTING SUPPLIES



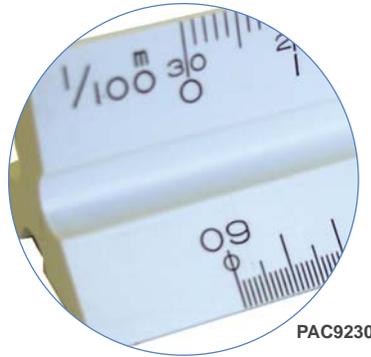
PAC92121



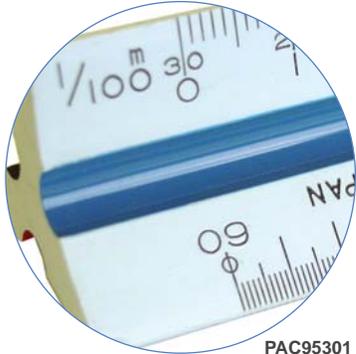
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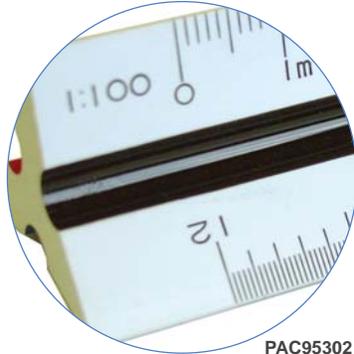
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PAC92301



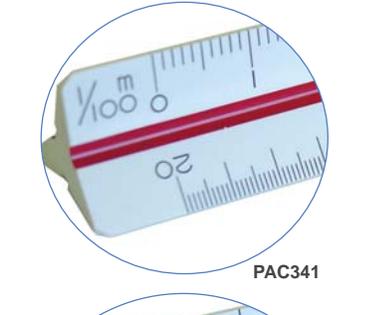
PAC95301



PAC95302



PAC95303



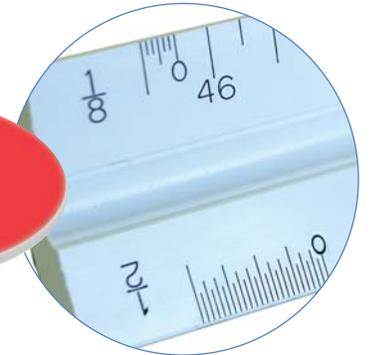
PAC341



PAC340



PAC310



PAC92120



FLT3210

## PACIFIC ARC SCALES

Professional quality scales made from high-impact plastic with white, non-reflecting dull-matte faces and tapered edges. Color-coded furrows are available on some models.

| Item           | Style       | Length | Scale   | MSRP    | FLT PRICE |
|----------------|-------------|--------|---|---------|-----------|
| 80524 PAC92121 | Engineer's  | 12"    | 10, 20, 30, 40, 50, 60 parts to the inch                            | \$4.95  | \$3.95    |
| 81683 PAC95121 | Engineer's  | 12"    | 10, 20, 30, 40, 50, 60 parts to the inch                            | \$9.50  | \$7.95    |
| 43742 PAC96121 | Engineer's  | 12"    | 10, 20, 30, 40, 50, 60 parts to the inch                            | \$24.95 | \$184.95  |
| 17243 PAC341   | Engineer's  | 4"     | 10, 20, 30, 40, 50, 60 parts to the inch                            | \$7.50  | \$5.95    |
| 67530 FLT3210  | Engineer's  | 6"     | 10, 20, 30, 40, 50, 60 parts to the inch                            | \$4.95  | \$3.95    |
| 24076 PAC92301 | Metric      | 12"    | 1:100, 1:200, 1:300, 1:400, 1:500, 1:600                            | \$7.50  | \$4.95    |
| 25955 PAC95301 | Metric      | 12"    | 1:100, 1:200, 1:300, 1:400, 1:500, 1:600                            | \$9.50  | \$7.95    |
| 22148 PAC95302 | Metric      | 12"    | 1:20, 1:33 1/3, 1:40, 1:50, 1:80, 1:100                             | \$9.50  | \$7.95    |
| 46719 PAC95303 | Metric      | 12"    | 1:100, 1:200, 1:250, 1:300, 1:400, 1:500, 1:600                     | \$9.50  | \$7.95    |
| 19299 PAC310   | Metric      | 4"     | 1:100, 1:200, 1:300, 1:400, 1:500, 1:600                            | \$7.50  | \$5.95    |
| 71157 PAC92120 | Architect's | 12"    | 3/32, 3/16, 1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/2, 3 inches to the foot | \$4.95  | \$3.95    |
| 94006 PAC340   | Architect's | 4"     | 3/32, 3/16, 1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/2, 3 inches to the foot | \$7.50  | \$5.95    |

## Yasutomo GRIP500 MECHANICAL PENCIL

The world's only fully retracting tip mechanism to protect the point for longer wear. No more holes in the pocket! This pencil is equipped with a spring cushioned point that reduces lead breakage, therefore making the .5mm lead suitable even for heavy handed writing. Comes in a translucent cylindrical barrel with super strong pocket clip and refillable eraser.

| Item             | Description                               | MSRP   | FLT PRICE |
|------------------|---|--------|-----------|
| 75468 YASGRIP500 | 0.5mm retractable point mechanical pencil | \$6.25 | \$5.49    |



## PENTEL MECHANICAL PENCIL

0.5mm "Quick-Click" slide action pencil button allows you to advance the lead without interrupting your writing. Cushioned grip.

| Item             | Description                           | MSRP   | FLT PRICE |
|------------------|---------------------------------------|--------|-----------|
| 87193 PENPD345TA | 0.5mm "Quick-Click" mechanical pencil | \$4.80 | \$4.29    |



# DRAFTING SUPPLIES

## PENTEL MECHANICAL PENCILS

Pentel P205A 0.5mm "Sharp" black mechanical pencil features a push-button instant point, and a 4mm stainless steel fixed sleeve for template work.

| Item           | Description                           | MSRP   | FLT PRICE |
|----------------|---------------------------------------|--------|-----------|
| 51163 PENP205A | 0.5mm "Sharp" black pencil            | \$6.00 | \$4.69    |
| 73232 PENPDE-1 | Eraser refills for PENPD345TA. Qty. 5 | \$2.15 | \$1.65    |
| 92916 PENZ2-1  | Eraser refills for PENP205A. Qty. 3   | \$1.95 | \$1.40    |



## Koh-i-noor TECHNIGRAPH LEADHOLDER

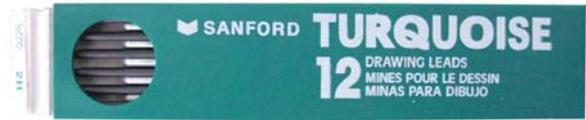
| Item           | Description               | MSRP   | FLT PRICE |
|----------------|---------------------------|--------|-----------|
| 89918 KOH5611C | "Technigraph" lead holder | \$9.40 | \$8.95    |



## SANFORD DRAFTING LEAD

2mm 2H drafting leads for technigraph lead holder. Standard .078" diameter; 5-7/8" long. Smooth, consistent laydown for crisp, clean lines without smearing. 12 leads per tube.

| Item               | Description                            | MSRP    | FLT PRICE |
|--------------------|--|---------|-----------|
| 85454 SAN2375-2H   | 2H, 2mm drafting leads for lead holder | \$10.85 | \$8.95    |
| 22998 SAN2375-H    | H, 2mm drafting leads for lead holder  | \$10.85 | \$8.95    |
| 87734 SAN2375-HB   | HB, 2mm drafting leads for lead holder | \$10.85 | \$8.95    |
| 86259 SAN2376-RED  | 2mm red lead for lead holder           | \$10.85 | \$8.95    |
| 24752 SAN2376-BLUE | 2mm blue lead for lead holder          | \$10.85 | \$8.95    |



## PENTEL REPLACEMENT LEAD

Pentel replacement leads fit all Pentel, Yasutomo, and KOH-I-NOOR pencils.

| Item             | Description                     | MSRP   | FLT PRICE |
|------------------|---------------------------------|--------|-----------|
| 44260 PENC505-2H | 2H, 0.5mm super hi-polymer lead | \$1.00 | \$0.89    |
| 31664 PENC505-H  | H, 0.5mm super hi-polymer lead  | \$1.00 | \$0.89    |
| 53150 PENC505-HB | HB, 0.5mm super hi-polymer lead | \$1.00 | \$0.89    |
| 81009 PENPPB-5   | Blue 0.5mm lead                 | \$1.50 | \$1.39    |
| 24851 PENPPR-5   | Red 0.5mm lead                  | \$1.50 | \$1.39    |



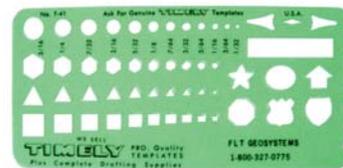
## PENTEL PUSH BUTTON ERASER

Soft, non-abrasive eraser for all pencil lead markings. Versatile pocket clip advances/retracts eraser with a "click". Accepts PENTEL ZER eraser refills.

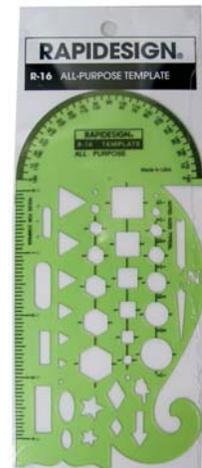
| Item           | Description                    | MSRP   | FLT PRICE |
|----------------|--------------------------------|--------|-----------|
| 65771 PENZE-21 | "Click" eraser                 | \$1.90 | \$1.79    |
| 84731 PENZER   | 2 pack refill for click eraser | \$1.85 | \$1.79    |

## POCKET TEMPLATES

| Item         | Description            | MSRP   | FLT PRICE |
|--------------|------------------------|--------|-----------|
| 13400 ALVT41 | Timely pocket template | \$1.25 | \$0.99    |
| 57535 ALV16R | All purpose template   | \$8.00 | \$5.95    |



ALV41

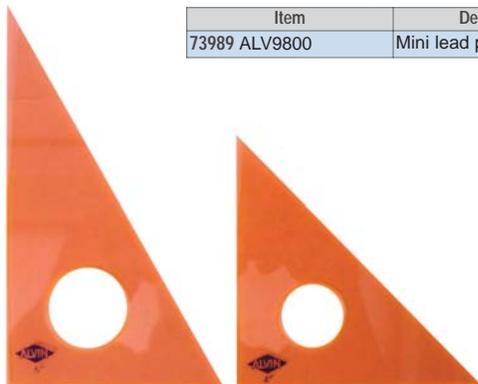


ALV16R

## ALVIN LEAD POINTER

ALVIN 9800 Mini lead pointer will sharpen all Sanford 2mm drafting leads.

| Item          | Description       | MSRP   | FLT PRICE |
|---------------|-------------------|--------|-----------|
| 73989 ALV9800 | Mini lead pointer | \$1.00 | \$0.75    |



ALV130F-6

ALV131F-4

## ALVIN DRAFTING TRIANGLES

Professional grade drafting triangles.

| Item            | Description                           | MSRP   | FLT PRICE |
|-----------------|---------------------------------------|--------|-----------|
| 72044 ALV130F-4 | 4" 30/60 triangle. Fluorescent orange | \$3.30 | \$2.39    |
| 76416 ALV131F-4 | 4" 45 triangle. Fluorescent orange    | \$3.85 | \$2.89    |
| 45488 ALV130F-6 | 6" 30/60 triangle. Fluorescent orange | \$3.90 | \$2.89    |
| 77282 ALV131F-6 | 6" 45 triangle. Fluorescent orange    | \$4.95 | \$3.59    |



Fax 954-462-4121



www.fltgeosystems.com



Orders 800-327-0775

# PIPE LASERS



## DG711 PIPE LASER

The rugged Spectra Precision DG711 pipe laser is built tough for long lasting performance and reliability. The DG711 pipe laser is completely waterproof. Setup is fast with a full range of available mounting accessories and easy to use with straightforward, "no-instructions-required" controls. **Package includes carrying case, alkaline and NiMH battery pack, smart charger, full function remote control, 8" invert plate, and small adjustable targets and 2 yr warranty.**

### APPLICATIONS:

- installation of gravity flow sanitary and storm sewer pipelines
- pipe jacking
- tunnel boring

**Accuracy: 1/16" @ 100 ft.**

| Item           | Description                  | LSR PRICE |
|----------------|------------------------------|-----------|
| 27541 SPYDG711 | DG711 Pipe Laser with remote | \$595.00  |

CALL FOR PACKAGE DISCOUNTS!



SPY1244



SPY936



SPY1017

## WIRELESS REMOTE

The RC501 long range wireless remote allows you to move the beam left and right. The RC502 long range wireless remote allows you to perform all the functions on the pipe laser keyboard except for turning it on or off.

| Item           | Description                                | LSR PRICE |
|----------------|--|-----------|
| 37890 SPYRC501 | RC501 wireless remote for DG711 pipe laser | \$295.00  |
| 77373 SPYRC502 | RC502 wireless remote for DG711 pipe laser | \$425.00  |

## EXTERNAL POWER CABLE

The P21 external power cable attaches to any 12V DC power source to the DG711 pipe laser.

| Item         | Description                               | LSR PRICE |
|--------------|---|-----------|
| 67873 SPYP21 | External power cable for DG711 pipe laser | \$95.00   |

## CIGARETTE LIGHTER CHARGER

Conveniently charge the NiMH rechargeable battery pack in your truck. 14 hr recharge time.

| Item         | Description               | LSR PRICE |
|--------------|---------------------------|-----------|
| 19277 SPYP22 | Cigarette lighter charger | \$175.00  |

## T-BAR

Used in manholes and large pipes with diameters of 42 to 80 inches. Use with the 1239 Universal Vertical pole if height adjustment is desired.

| Item          | Description                | LSR PRICE |
|---------------|----------------------------|-----------|
| 67043 SPY1244 | T-Bar for DG711 pipe laser | \$450.00  |

## ADJUSTABLE LARGE PIPE TARGET

Large easy to read red target with reference scales and adjustable from 15 to 30 inches. Built in frame clamp for use with 2 x 4 when the laser beam is over 30 inches from the invert. Includes level vial.

| Item         | Description            | LSR PRICE |
|--------------|------------------------|-----------|
| 39473 SPY936 | Adjustable pipe target | \$115.00  |

## MANHOLE MOUNT

Attaches to a manhole cone or riser allowing any 5/8 x 11 instrument to be easily plumbed over the pipe laser.

| Item          | Description   | LSR PRICE |
|---------------|---------------|-----------|
| 29344 SPY1017 | Manhole mount | \$475.00  |



SPYRC502



SPYRC501



SPYP21



SPYP22

## PRO ALKALINE BATTERY PACK

This alkaline battery pack allows you to power the DG711 pipe laser with 4 D cell batteries.

| Item          | Description               | LSR PRICE |
|---------------|---------------------------|-----------|
| 39443 SPYP20B | Pro alkaline battery pack | \$85.00   |
| 72256 SPYP23B | Pro NiMH battery pack     | \$200.00  |

## VERTICAL POLE & INVERT PLATE

The unique heavy-duty metal invert plate provides a simple means to self-center the laser in 10-15 inch diameter pipe. Add the 1239 vertical pole kit for standard trivet setups.

| Item          | Description             | LSR PRICE |
|---------------|-------------------------|-----------|
| 66594 SPY1230 | 1230 metal invert plate | \$220.00  |
| 12044 SPY1239 | Vertical pole assembly  | \$245.00  |



SPY1230 & SPY1239



SPYP20

# PIPE LASERS



## PIPE TARGETS

This adjustable pipe target is designed to fit 6" to 21" diameter pipes with two target inserts. The target is optically enhanced to maximize contrast of laser beam and attached to a corrosion resistant aluminum mount.

| Item         | Description                                   | LSR PRICE |
|--------------|---|-----------|
| 66303 SPY956 | Adjustable small pipe target with two inserts | \$95.00   |



## PIPE TARGETS

These targets are designed to snap into the end of pipes with diameters of 4 to 12 inches. Target is optically enhanced to maximize contrast of laser beam and constructed with aluminum components to resist corrosion. These targets are also available for green beam pipe lasers.

| Item         | Description        | LSR PRICE |
|--------------|--------------------|-----------|
| 55095 LTC724 | 4" Snap-in target  | \$42.00   |
| 34225 LTC726 | 6" Snap-in target  | \$44.00   |
| 75736 LTC728 | 8" Snap-in target  | \$46.00   |
| 87998 LTC730 | 10" Snap-in target | \$48.00   |
| 27746 LTC732 | 12" Snap-in target | \$50.00   |



LTC724

## HEAVY-DUTY BLOWER

Variable speed, high capacity output minimizes beam refraction to prevent beam bounce and grade sag. Operates on 12V DC.

| Item         | Description       | LSR PRICE |
|--------------|-------------------|-----------|
| 64921 SPY929 | Heavy-duty blower | \$375.00  |



SPY929

## ALUMINUM TRIPOD

Heavy-duty aluminum tripod. Extends from 3'6" to 6'1".

| Item          | Description                | LSR PRICE |
|---------------|----------------------------|-----------|
| 37519 SPY2161 | Heavy-duty aluminum tripod | \$129.00  |



## OVER-THE-TOP-SYSTEM

All LSR over-the-top-target system components are constructed of 100% aluminum and consists of a story pole, insert pole, 4' ext., 6' ext., and range pole hood. The target hood is constructed of anodized aluminum that will hold up in the harshest work conditions. Each item may also be purchased separately:

| Item                | Description                       | LSR PRICE |
|---------------------|-----------------------------------|-----------|
| 70617 LSRSTORY POLE | Story pole (requires insert pole) | \$125.00  |
| 42414 LSR4' EXT     | 4' extension pole                 | \$25.00   |
| 79891 LSR6' EXT     | 6' extension pole                 | \$35.00   |
| 20221 LSRHOOD       | Anodized target hood              | \$125.00  |
| 96502 LSRFOOT       | Large pipe foot                   | \$65.00   |
| 76386 LSRR POLE     | Range pole                        | \$60.00   |
| 43271 LSRINSERT     | Insert pole                       | \$25.00   |
| 37299 LSRO/T        | Complete over-the-top system      | \$385.00  |



Over-The-Top-System

# GENERAL CONSTRUCTION LASERS



## LL500 GENERAL CONSTRUCTION LASER LEVEL

The world's best selling laser level: the Spectra Precision LL500 LASER is a one-person leveling system designed for the most rugged environment. Accurate, stable and reliable, the LL500 is ideal for longer range measurements across your entire site. It comes complete with a hand held or rod-mounted receiver and is also compatible with machine control receivers. **Package includes carrying case, alkaline batteries, HR550 receiver with rod clamp.**

### APPLICATIONS:

- checking elevations
- setting Concrete forms (small and large jobs)
- digging footings

Accuracy: 1/16" @ 100 ft.  
Working Range: 1,600 ft diameter

| Item           | Description                     | LIST PRICE | LSR PRICE |
|----------------|---------------------------------|------------|-----------|
| 31883 SPYLL500 | LL500 laser with HR550 receiver | \$1495.00  | \$1339.95 |

## LL400 LASER LEVEL

The fully automatic, self-leveling LL400 laser sets a new standard in rugged reliability, handling a wide variety of general and concrete construction applications. Even in tough jobsite conditions, the LL400 consistently delivers reliable and accurate performance. The LL400 Laser Level features easy, one-button operation for basic leveling and provides reliable, highly accurate, long-range measurements, even for machine control applications. The LL400 is designed to be durable and reliable, day in and day out, and can be operated in the rain. The rugged LL400 can withstand drops of up to 1 meter (3 feet) onto concrete and tripod tip-overs up to 1.5 meters (5 feet). **Package includes HR550 receiver, alkaline batteries, carrying case.**

### APPLICATIONS:

- Elevation control across the construction site
- Excavation
- Leveling forms and footers
- Concrete pours

Accuracy: 1/16" @ 100 ft.  
Working Range: 2,600 ft diameter

| Item           | Description                     | LIST PRICE | LSR PRICE |
|----------------|---------------------------------|------------|-----------|
| 62423 SPYLL400 | LL400 laser with HR550 receiver | \$1495.00  | \$1329.95 |

Call for our current laser specials!



optional RC601 remote

## LL300 LASER LEVEL

The LL300 is rugged enough to survive drops of up to 1 meter (3 feet) onto concrete and can be tipped on a tripod up to 1.5 meters (5 feet) and keep working. The LL300's self-leveling capability results in outstanding accuracy and ease of use. Since the LL300 levels itself when turned on, setting up is easy with just one button press. The optional RC601 remote control gives you the option of controlling the unit from the rod position when doing slope matching. It also offers single-axis slope mode with self-leveling in the cross axis, providing more accurate grade measurements. **Package includes HR350 receiver, alkaline batteries, carrying case.**

Accuracy: 3/32" @ 100 ft.  
Working Range: 1000 ft diameter

| Item           | Description                     | LIST PRICE | LSR PRICE |
|----------------|---------------------------------|------------|-----------|
| 28339 SPYLL300 | LL300 laser with HR350 receiver | \$925.00   | \$839.95  |



optional RC601 remote

## LL200 LASER LEVEL

The Spectra Precision LL200 Laser includes everything you need in a single carrying case...the laser, tripod, receiver and rod. Simple to use, the LL200 makes one-person leveling as easy as possible – putting you in control of your elevations. **Package includes HR200 receiver, 9' grade rod (inches or 10ths), tripod, alkaline D battery, carrying case.**

### APPLICATIONS:

- forms, footings and foundations (residential jobs)
- septic tank or swimming pool installations
- decks and terraces

Accuracy: 3/32" @ 100 ft.  
Working Range: 400 ft diameter

| Item             | Description                                  | LIST PRICE | LSR PRICE |
|------------------|--|------------|-----------|
| 65197 SPYLL200   | LL200 laser package with laser rod in 10ths  | \$995.95   | \$865.95  |
| 46617 SPYLL200-1 | LL200 laser package with laser rod in inches | \$995.95   | \$865.95  |



## RUGBY 50 LASER LEVEL

Rugged, reliable, accurate. The Leica Rugby 50 is the affordable "little brother" of the popular Leica Rugby 100. The Rugby 50 provides value where ever it is used. Work gets done faster and more accurately, providing savings in labor, time and materials. As a contractor, you know the values of lasers. Built to Leica Geosystems' tough standards, you can trust the Leica Rugby 50 to provide you with the right tool to get the job done. **Package includes carrying case, rod-eye receiver, and alkaline batteries.**

Accuracy: 3/32" @ 100 ft.  
Working Range: 1000 ft diameter

| Item             | Description   | LSR PRICE |
|------------------|---|-----------|
| 22286 LCA6000733 | Rugby 50 laser package with rod eye classic receiver                    | \$945.00  |
| 14172 LCA6000734 | Rugby 50 laser package with rod eye classic receiver and NiMH batteries | \$1060.00 |



Rod Eye Classic



Rugby 50

# HORIZONTAL & VERTICAL LASERS



## HV401 HORIZONTAL & VERTICAL LASER

The highly visible, multi-purpose HV401 laser is an advanced laser with exceptional accuracy and durability for general construction projects. The HV401 is easy to set up. A simple user interface common on the transmitter and remote control gives you automatic self-leveling and one-button operation. Designed for interior and general construction, the HV401 is your easy-to-use and an economical choice for vertical alignment tasks, especially on larger projects.

Package includes NiCAD batteries, charger, wall mount, carrying case.

### APPLICATIONS:

- Interior leveling and aligning
- Layout of construction control lines
- Interior leveling and aligning

Accuracy: 1/16" @ 100 ft.  
Working Range: 2,000 ft diameter

| Item           | Description                               | LIST PRICE | LSR PRICE |
|----------------|---|------------|-----------|
| 15144 SPYHV401 | HV401 General construction interior laser | \$1925.00  | \$1699.95 |



optional RC601 remote



## HV301 HORIZONTAL & VERTICAL LASER

The automatic, self-leveling HV301 is an economical laser with exceptional versatility and visibility. Whether your job site is indoors or outdoors, the HV301 is capable of handling a wide variety of horizontal, vertical and plumb applications. Its high-visibility beam enables simultaneous rotating and plumb/perpendicular references.

Package includes carrying case, NiCAD rechargeable batteries, charger.

### APPLICATIONS:

- Interior wall layout
- Installation of ceilings and raised floors
- Interior finishing work

Accuracy: 1/8" @ 100 ft.  
Working Range: 1,000 ft diameter

| Item             | Description   | LIST PRICE | LSR PRICE |
|------------------|---|------------|-----------|
| 76842 SPYHV301   | HV301 laser with HR350 receiver                     | \$1335.00  | \$1199.95 |
| 20391 SPYHV301-1 | HV301 laser with remote and wall mount              | \$1395.00  | \$1249.95 |
| 75231 SPYHV301-2 | HV301 laser with remote, wall mount, HR350 receiver | \$1545.00  | \$1379.95 |



## RUGBY 55 INTERIOR HORIZONTAL & VERTICAL LASER

The Leica Rugby 55 provides the today's contractor with the tools needed for virtually any leveling or alignment job. The Leica Rugby 55 features an easy to use keypad, a watertight seal, variable head speeds, selectable scanning modes, a bright red beam and alkaline or rechargeable battery pack. Package includes interior carrying case, IR remote, wallmount, ceiling target, and alkaline batteries.

Accuracy: 3/32" @ 100 ft.  
Working Range: 1000 ft diameter

| Item             | Description   | LSR PRICE |
|------------------|---|-----------|
| 98166 LCA6000739 | Rugby 55 interior laser package with rod eye classic receiver | \$1325.00 |



Rugby 55



## PLS HVR500 HORIZONTAL & VERTICAL LASER

The PLS HVR 500 is a compact, mid range rotary laser designed for light commercial and residential projects. It can be used in both the horizontal and vertical axis and a slope of +/- 5 degrees can be programmed. The PLS HVR 500 is ideal for short and mid range layout. The HVR500 laser level includes the laser, carrying case, RC500 remote control, ceiling bracket, laser detector, targets, and 1 yr warranty. The HVR500 laser level package includes all laser level accessories as well as a heavy-duty tripod and 8.5' two-section aluminum laser rod (not pictured).

Accuracy: 1/8" @ 100 ft.  
Working Range: 500 ft diameter

| Item            | Description                    | MSRP  | FLT PRICE |
|-----------------|--------------------------------|-------|-----------|
| 61905 PLS60510  | PLS HVR500 laser level         | \$695 | \$579.95  |
| 73617 PLS60510P | PLS HVR500 laser level package | \$835 | \$699.95  |



HVR500

HVR500 PACKAGE

AS LOW AS  
**\$595.95**



NRL800 PACKAGE



## NRL800 HORIZONTAL & VERTICAL LASER

The NRL800 Rotary Laser is self-leveling in both the horizontal and vertical axis and is a one-person leveling system designed for indoor and outdoor projects. A slope of +/- 5 degrees can be programmed. The NRL800 laser includes the laser, detector, carrying case, and 1 yr warranty. The NRL800 Laser Package includes all laser accessories as well as a heavy-duty aluminum tripod and 8.5' aluminum laser rod.

| Item             | Description                          | MSRP   | FLT PRICE |
|------------------|--------------------------------------|--------|-----------|
| 36145 NWTNRL800  | Northwest NRL800 laser with detector | \$699  | \$575.00  |
| 92910 NWTNRL800P | Northwest NRL800 package             | \$1018 | \$659.00  |

# LASER RECEIVERS



## HR550 RECEIVER

The HR550 receiver is designed for use by general, concrete and site preparation contractors. It is an easy-to-use tool that accurately measures elevations across the site, and is ideal for use with any rotating transmitter. The HR550 features a heavy-duty rod clamp, fine and coarse modes, unique anti-strobe sensor that stops construction strobe and flashing lights from setting off the receiver, and makes it easier to identify true laser beam signals. Its rugged, weatherproof housing withstands a drop of up to 3 meters (10 feet) on concrete for reduced downtime. The HR550 can be used as either a hand-held or rod mounted receiver.

| Item           | Description                              | LSR PRICE |
|----------------|--|-----------|
| 60263 SPYHR550 | HR550 receiver with adjustable rod clamp | \$395.00  |

## HR350 RECEIVER

Rugged, fast and easy to use the Spectra Precision™ Laser HR350 is a receiver for basic leveling and alignment tasks. Applications include concrete footers and forms, decks, alignment of interior walls and ceilings and placing 1-meter (4 foot) marks.

| Item           | Description                              | LSR PRICE |
|----------------|--|-----------|
| 63872 SPYHR350 | HR350 receiver with adjustable rod clamp | \$225.00  |

## HR250 RECEIVER

The HR250 laser receiver was made for basic leveling and alignment tasks to be used with the LL200 laser. Applications include concrete footers and forms, decks, alignment of interior walls and ceilings and placing 1-meter (4 foot) marks.

| Item           | Description                              | LSR PRICE |
|----------------|--|-----------|
| 49967 SPYHR250 | HR200 receiver with adjustable rod clamp | \$245.00  |

## CR600 RECEIVER

The CR600 Receiver is ideal for contractors doing both site prep and general construction. The CR600 can be either rod or machine mounted, making it ideal for a wide range of applications. Using the magnetic mount, the CR600 receiver is easily moved between backhoes, small excavators, box blades or skid steer loaders. With such a high degree of flexibility, the CR600 is tough enough for any job.

| Item           | Description                                   | LSR PRICE |
|----------------|---|-----------|
| 10479 SPYCR600 | CR600 receiver with heavy-duty magnetic mount | \$695.00  |



HR550



HR350



HR250



CR600



Rod Eye Classic

Rod Eye Pro



## LEICA LASER RECEIVERS

The **ROD-EYE Pro** is the top of the line sensor for general construction applications. It has an LCD display in the front and rear, a working diameter of 2,500 ft., user selectable fine and coarse modes, and works with any rotating laser. It comes with a 36-month warranty. The **ROD-EYE Classic** is a mid-range sensor for general construction applications. It also has an LCD display in the front and rear, a working diameter of 2,500 ft., and comes with a 24-month warranty.

| Item            | Description                               | LSR PRICE |
|-----------------|---|-----------|
| 81195 LCA727163 | Rod Eye Pro with adjustable rod clamp     | \$325.00  |
| 80342 LCA739575 | Rod Eye Classic with adjustable rod clamp | \$250.00  |

## APACHE LASER RECEIVERS

The **Cyclone** receiver provides stable and accurate grade information over the entire jobsite and has dual LCD 9-channel displays with three selectable volume levels with 7 distinct accuracy levels. IP67 100% waterproof rating. The **Lightning** receiver has dual displays with 4 accuracy settings and three volume settings. 100% waterproof. Both receivers come with a 1 yr warranty.

| Item               | Description                              | LSR PRICE |
|--------------------|--|-----------|
| 14523 AT1991550-09 | Apache Cyclone receiver with rod clamp   | \$325.00  |
| 62763 AT1992244-09 | Apache Lightning receiver with rod clamp | \$275.00  |

## LSR400 LASER RECEIVER

The **LSR400** laser receiver is an economical and good all-around laser receiver that provides stable and accurate grade information over the entire jobsite. It has dual LCD 9-channel displays with three selectable volume levels. This receiver works with all rotating lasers sold today. 1 yr warranty

| Item         | Description                                     | LSR PRICE |
|--------------|---|-----------|
| 68862 LSR400 | LSR400 laser receiver with adjustable rod clamp | \$249.00  |

# MACHINE CONTROL & GRADE LASERS



## RUGBY 300 & 400 MACHINE AUTOMATION LASERS

Rugged and accurate, the Rugby 300 SG (Single Grade) and the Rugby 400 DG (Dual Grade) lasers are the optimal solution for precise grade control in level, single or dual slopes. Their operating range of 2500 ft with an accuracy of 1/16" @ 100 ft. make these ideal lasers for machine automation applications.

Accuracy: 1/16" @ 100 ft.  
Working Range: 2,500 ft diameter

| Item            | Description  | LSR PRICE |
|-----------------|--|-----------|
| 14914 LCA741751 | Rugby 300SG laser package with rod eye classic receiver and NiMH batteries | \$2995.00 |
| 19915 LCA741752 | Rugby 400DG laser package with rod eye classic receiver and NiMH batteries | \$3995.00 |



## GL412 & 422 GRADE LASERS

The Spectra Precision® Laser GL412 and GL422 Grade Lasers are cost-effective, automatic self-leveling lasers that do three jobs—level, grade and vertical alignment with plumb. Both lasers feature a 2-way, full-function remote control so you can make grade changes from anywhere on the jobsite for reduced setup time and faster operation. The GL412 (single grade) and GL422 (dual grade) lasers send a continuous, self-leveled 360-degree laser reference over your entire work area, and have a wide grade range so they can be used in a variety of slope applications. Package includes carrying case, NiMH batteries, charger, and radio remote.

### APPLICATIONS:

- Grading and excavating
- Concrete sections with runoff for sports fields, tennis courts and driveways
- Steep slope road embankments and ditch banks
- Parking garages, ramps and drainage

GL412 & 422 accuracy: 1/16" @ 100 ft.  
GL412 range: 2,000 ft.  
GL422 range: 2,600 ft.

| Item           | Description   | LSR PRICE |
|----------------|---|-----------|
| 31883 SPYGL412 | GL412 single slope laser with radio remote and HR550 detector | \$2395.00 |
| 44330 SPYGL412 | GL412 single slope laser with radio remote and CR600 detector | \$2695.00 |
| 99840 SPYGL422 | GL422 dual slope laser with radio remote and HR500 detector   | \$2995.00 |
| 63712 SPYGL422 | GL422 dual slope laser with radio remote and CR600 detector   | \$3295.00 |



radio remote



Call for our current laser specials!

## GL700 GRADE LASER LEVEL

The GL700 Series gives you the right laser for the right job... from an economical single grade transmitter to an advanced, long-range radio remote controlled steep grade transmitter. The GL710 single grade laser is a one-person grade laser. With -0.5 to +25% grade range. The GL720 dual grade laser has +/-10% in the X axis grade range and -0.5 to +25% Y axis grade range with high accuracy. The GL722 has the same range and base capabilities as the GL720 described below but includes a full function Radio Remote with Automatic Axis Alignment capability. Package includes CR600 receiver, external power cord, NiCAD batteries, carrying case.

Accuracy: 1/16" @ 100 ft.  
Working Range: 3,000 ft diameter

| Item           | Description   | LSR PRICE  |
|----------------|---|------------|
| 71338 SPYGL710 | GL710 single slope laser with HR550 receiver                      | \$4,495.00 |
| 28570 SPYGL720 | GL720 dual slope laser with CR600 receiver                        | \$5,295.00 |
| 10206 SPYGL722 | GL722 dual slope laser long range radio remote and CR600 receiver | \$6,995.00 |



Radio Remote

## 5 LIGHT 360 LASER RECEIVER

- Constant Accuracy Band ( CAB-Technology) provides constant accuracy over the entire working area regardless of shape or diameter of the laser beam.
- Shows five levels – to high – near center- center – to low- to high
- Memory function shows the last position where the laser signal has been detected.
- Bright LED displays
- Operates as manual laser system by connecting to a 12 or 24VDC battery

## AUTOMATIC CONTROL PANEL

- Can be used either as remote indicate system or for fully automatic system controlling the height of any leveling device.
- Used mainly on machines for farm drainage, leveling sports fields, agricultural land-leveling, milling machines, etc.

| Item            | Description  | LSR PRICE |
|-----------------|--|-----------|
| 10386 LCA727542 | Leica 5 light 360 degree sensor with carrying case | \$1895.00 |
| 10386 LCA729366 | Automatic Control Panel                            | \$1795.00 |



5 light 360 Receiver



Automatic Control Panel

## LEICA BASIC DIGGING SYSTEM

Leica Basic Digging System is an ideal tool for any kind of height control for excavators. Simply turn the excavator dipper into an integrated measuring stick without having to leave the cabin. It is simple to set-up and can be used with any rotating laser. The sensor mounts to either a standard excavator or backhoe - even levelling work can be done with the same sensor. Different mounting systems (magnet or brackets) allow the Leica Basic Digging System to be mounted on either side of the excavator arm. It is simple to use and achieves best results already on the first day of use.

| Item            | Description   | LSR PRICE |
|-----------------|---|-----------|
| 99286 LCA742440 | Leica Basic Digging System Sensor with magnetic bracket | \$1575.00 |



# LASER ACCESSORIES



## LENKER STYLE DIRECT READING ROD

This Lenker style rod is tough, lightweight, and versatile. It is constructed of high strength anodized aluminum and will not rust, split, or warp in any environment. The tape lock grommets are oversized which minimizes the problem of tape tearing. The tape has a heavy duty matte textured face which protects the numbers from wearing and fading. The GR1000T has a track designed to accommodate a laser receiver and the GR1000 is supplied with a 10' cut/fill tape.

| Item               | Description   | LSR PRICE |
|--------------------|---|-----------|
| 55904 LLMGR1000T   | Laser Lenker style direct elevation rod 10ths                   | \$179.95  |
| 18753 LLM1000-1026 | Replacement tape for GR1000T                                    | \$60.00   |
| 64773 LLMGR10I     | Lenker style direct elevation rod inches                        | \$165.00  |
| 13653 LLMBILA      | Lenker receiver clamp for Leica Laser Alignment Rod Eye family  | \$65.00   |
| 81545 LLMB1        | Lenker receiver clamp for SPY1275, Topcon, CST/Berger, Quagriga | \$65.00   |
| 14609 LLMB2        | Lenker receiver clamp for SPY1175, 1177, 3075                   | \$90.00   |
| 34713 LLM1000-1301 | Canvas carrying case for GR1000T                                | \$35.00   |
| 29974 LLMB1T       | Lenker receiver clamp for HR400, HR500, CR600                   | \$65.00   |
| 89317 LLMB550      | Lenker receiver clamp for HR550                                 | \$95.00   |
| 72943 LLMGR1000    | Laser Lenker rod with cut/fill tape 10ths                       | \$185.00  |



## RECEIVER CLAMPS

| Item            | Description                        | LSR PRICE |
|-----------------|------------------------------------|-----------|
| 76549 SPYC56    | Rod clamp for HR100                | \$20.00   |
| 69127 SPY1271-1 | Rod clamp for HR200                | \$30.00   |
| 88816 SPYC55    | Rod clamp for HR300                | \$20.00   |
| 19499 SPYC50    | Rod clamp for CR600 and HR500      | \$30.00   |
| 11005 SPYC51    | Magnetic mount for HR500 and CR600 | \$30.00   |
| 36731 SPYC57    | Rod clamp for HR550                | \$35.00   |
| 80392 SPYC59    | Rod clamp for HR350                | \$25.00   |

LLMGR1000



LLMGR1000T



SPYC57



SPYC59

## RECHARGEABLE BATTERIES AND CHARGERS

These two and three section rods are constructed of high quality anodized aluminum and snap together allowing the receiver clamp to slide up and down the rod effortlessly.

| Item                  | Description   | LSR PRICE |
|-----------------------|---|-----------|
| 70277 SPY1041 BATTERY | NiCAD rechargeable batteries for LL500                  | \$50.00   |
| 24465 SPY1041 CHARGER | AC charger for LL500 laser NiCAD batteries              | \$35.00   |
| 49508 SPYQ102734      | AC charger for LL300, LL400, HV301, HV401 lasers        | \$35.00   |
| 17495 SPYQ103311      | NiMH battery pack for LL300, LL400, HV301, HV401 lasers | \$165.00  |
| 13160 SPYQ100227      | AC charger for 1452 laser NiCAD batteries               | \$43.00   |



## LASER RODS

These two and three section rods are constructed of high quality anodized aluminum and snap together allowing the receiver clamp to slide up and down the rod effortlessly.

| Item               | Description   | LSR PRICE |
|--------------------|---|-----------|
| 66391 NWT8.5E      | Two section 2 m (8 ft) rod graduated in inches, case included | \$79.00   |
| 88088 NWT8.5T      | Two section 2 m (8 ft) rod graduated in tenths, case included | \$79.00   |
| 83625 SPY0205-2510 | Three section rod for LL200 graduated in inches               | \$65.00   |
| 95256 SPY0205-2520 | Three section rod for LL200 graduated in tenths               | \$65.00   |



NWT8.5T



SPY0205-2510

# Level Best

## On grade...automatically

### Concept

A Level Best System consists of three main components: the grading box for a skid steer or tractor, the hydraulics package and the laser controls. Add a rotating laser and tripod and your operator will reach fine grade faster, easier and more accurately than ever.

### How it works

The laser controls take the guesswork out of fine grading. The rotating laser sends a signal to the laser receiver. The laser receiver sends information to the control panel that tells the hydraulics to automatically raise or lower the blade to grade. Precise finish grade is fast and accurate. The operator has the ability to manually override the automatic controls whenever necessary. Fine grade in automatic will deliver accuracies from 1/8" to 1/4" depending upon requirements and settings. sensitivity setting of the receiver.

Grade up to 50,000 square ft in a day:

Easy to operate  
Saves labor  
Consistent level grading



### Features

Level Best boxes are built to the highest standards in the industry. 3/8" steel plate construction with a high quality powder coat finish allow Level Best boxes to stand up to the daily abuse on a construction site.

-The cutting edge is made of high-carbon steel which can be easily reversed for twice the wear life and can be changed in minutes.

-Field tested and proven by contractors in construction, athletic field, golf course & turf and agricultural applications.

-A Level Best system eliminates material overage and increases yield giving contractor greater accuracy and better estimating.

-3 year warranty on Level Best boxes

-Highest accuracy and reliability in the industry

**Field tested and proven by contractors in construction, recreation, turf and agricultural markets**

-A Level Best system eliminates material overages, giving contractors greater accuracy in estimating.

-3 year warranty on box construction

-More rugged and reliable than competitive systems

-Finish grade elevation up to .12 inches



Ask about our monthly specials and low interest financing plans

# Leica GradeSmart 3D

3D Machine Automation Systems increase productivity and improve the quality of finish grading. Two basic types are available: **Indicate Systems** and **Automatic Systems**.

The **Indicate System** provides the operator with visual grade information. The operator monitors the blade and the display and manually controls the elevation of the blade to very accurate finish grade.

The **Automatic System** provides the operator with the same information as the Indicate System but automatically controls the elevation of the blade allowing the operator to run the machine at faster speeds safely and get to finish grade accurately and quickly with the ability to manually override the system whenever necessary.



LSR and Leica Geosystems offer Machine Automation for every budget. The Leica concept allows contractors to start out with a low cost system that is **easily upgradeable**. At LSR, we give you the options allowing you to achieve the highest level of productivity for your investment.

## Indicate Systems

An Indicate System is an economical way to get started. The onboard computer calculates the GPS information in conjunction with the site plans. Position and Cut and Fill values are clearly displayed on the onboard computer screen allowing the operator greater accuracy in controlling the blade on the jobsite.

Leica GradeSmart 3D is compatible with both dozers and graders and the Indicate System can easily be upgraded to Automatic.



GradeSmart 3D



# Leica GradeSmart 3D

## Automatic Systems

Precise results at cm level can be achieved by putting the digital design in the cab, creating a stakeless jobsite.

A fully automatic system consists of a GPS receiver on the machine that will calculate multiple times per second the actual position of the blade which is then compared to the digital design (DTM) loaded into the onboard computer. GPS corrections are sent continuously to the hydraulics of the machine to automatically position the blade to the required elevation and slope.

The job design is loaded into the control box mounted in front of the operator which gives the operator an overview of design surfaces, grades, and alignments. During operation, the system will continuously display the position of the machine compared to the actual design.



### Control Box

The Leica GradeSmart 3D control panel and onboard computer are the brains of the system. They give the operator an overview of all the pertinent positional information on the jobsite. The high resolution, high brightness screen is adaptable to a variety of applications. In addition to GPS, the system is compatible with laser and sonic sensors. Changing from one to the other is achieved by exchanging the sensors on the machine and the touch of a button on the panel.

### Easy to learn, easy to use

Complete Installation and Training are included with every system along with follow up support. Additional training is available for new employees.





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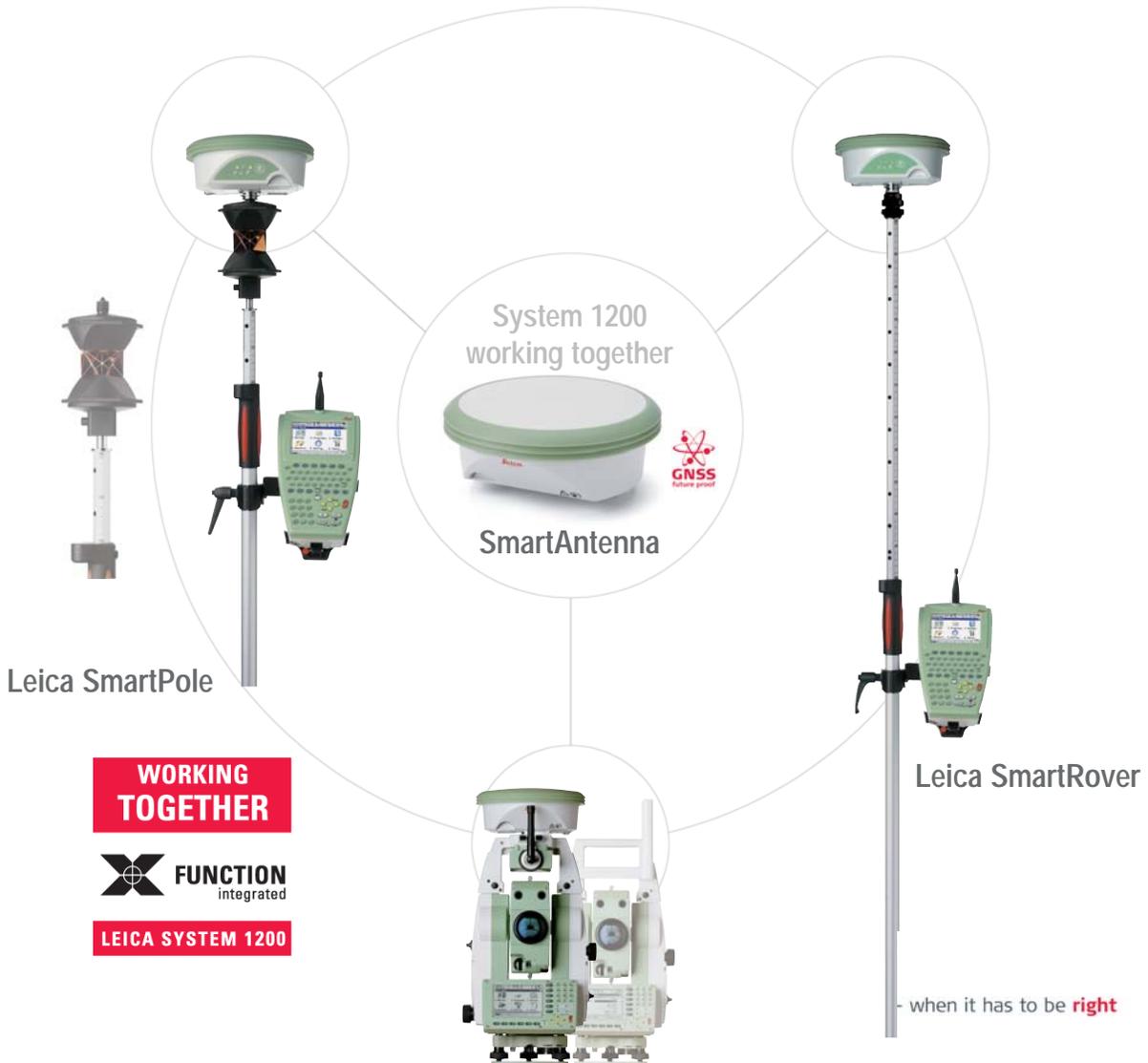
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|--------------------------------------|----------|-------------------------------|-------------|--------------------------------|----------|-------------------------------------|--------------|
| <b>A</b>                             |          | <b>E</b>                      |             | <b>M</b>                       |          | <b>S</b>                            |              |
| Adapter, Prism.....                  | 29,30    | Environmental Case, HP48..... | 28          | Machete.....                   | 50       | Safety Equipment.....               | 54-53        |
| Adapter, Tribach.....                | 29,30    | Eraser, Drafting.....         | 58          | Machine Control.....           | 64,66-68 | Safety Hat.....                     | 53           |
| Adapter, Tripod.....                 | 22,32,44 |                               |             | Mag Nail.....                  | 51       | Safety Vest.....                    | 53           |
| Aerial Flagging.....                 | 45       | <b>F</b>                      |             | Magnetic Locator.....          | 40       | Scale Master.....                   | 26           |
| Aluminum survey markers.....         | 51       | Felt Tip Markers.....         | 48-49       | Manhole Hook.....              | 50       | Scale, Drafting.....                | 57           |
| Automatic Level.....                 | 21       | Fiberglass Tapes.....         | 41          | Markers, Brass Survey.....     | 51       | Scanner, Laser.....                 | 11           |
| <b>B</b>                             |          | Field Books.....              | 55-56       | Markers, Inverted Paint.....   | 46       | Scribe, Concrete.....               | 49           |
| Bag, Field.....                      | 45       | Field Supplies.....           | 45-52       | Markers, Felt Tip.....         | 48-49    | Set, Steel Letter.....              | 50           |
| Bag, Lath.....                       | 45       | File.....                     | 50          | Marking Paint.....             | 46       | Set, Steel Number.....              | 50           |
| Bag, Prism.....                      | 45       | First Aid Kit.....            | 53          | Measuring Tapes.....           | 41-42    | Sharpener, Machete.....             | 50           |
| Bag, Stake.....                      | 45       | Flag, Road.....               | 54          | Measuring Wheel.....           | 39       | Sheath, Machete.....                | 50           |
| Bag, Wire Stake.....                 | 45       | Flagging, Roll.....           | 45          | Mechanical Pencil.....         | 57-58    | Sheath, Plumb Bob.....              | 47           |
| Ball, Tack.....                      | 51       | Flagging, Stake.....          | 45          | Monument, Concrete.....        | 52       | Sign, Safety Road.....              | 54           |
| Barricade Tape.....                  | 45       | Flagging, Wire.....           | 45          | Monument, Brass Marker.....    | 51       | Sledge Hammer.....                  | 49           |
| Battery, Data Collector.....         | 24-26    | Floor Tree, Tripod.....       | 32          | Mount, GPS Antenna.....        | 37       | Smart Level.....                    | 50           |
| Battery, GPS.....                    | 38       | Folding Rules.....            | 42          |                                |          | Software.....                       | 17-18, 27-28 |
| Battery, Total Station.....          | 38       | <b>G</b>                      |             | Nail.....                      | 51-52    | Spike, RR.....                      | 51-52        |
| Belt, Tool.....                      | 47       | Gad, Redtop.....              | 50          | Nail, Magnetic.....            | 51       | Staff, Leveling.....                | 34-36, 65    |
| Bipod.....                           | 30       | Gammon Reel.....              | 47-48       | Nail markers.....              | 51       | Stakes, Wood.....                   | 52           |
| Bob, Plumb.....                      | 47       | Gauge, Stream.....            | 36          | Nail, P-K.....                 | 51       | Stake Chasers.....                  | 49           |
| Book, Field.....                     | 55-56    | GIS.....                      | 10          |                                |          | Stake Tacks.....                    | 51           |
| Bracket, Data Collector.....         | 24-26,37 | GPS.....                      | 3-10        | <b>O</b>                       |          | Stamp sets (letters & numbers)..... | 50           |
| Bracket, GPS Pole.....               | 37       | GPS accessories.....          | 37          | Over-the-top-system.....       | 60       | Stand, "T".....                     | 54           |
| Brass Marker.....                    | 51       |                               |             | <b>P</b>                       |          | Stand, Sign.....                    | 54           |
| Builders Rod.....                    | 34-36,65 | <b>H</b>                      |             | P-K Nail.....                  | 51       | Stand, Tripod.....                  | 32           |
| Bullpin.....                         | 50       | Hammer, Engineers.....        | 50          | Paint, Inverted Marking.....   | 46       | Steel Stamp(Letters, Numbers).....  | 50           |
| <b>C</b>                             |          | Hammer,Sledge.....            | 49,52       | Paneling, Aerial.....          | 45       | Stream Gauge.....                   | 36           |
| Cable, Data Collector.....           | 24-25    | Hand Levels.....              | 48          | Paper Target.....              | 47       | Strobe Light.....                   | 54           |
| Cable, Data Transfer.....            | 38       | Hard Hat.....                 | 53          | Pencil, Mechanical.....        | 57-58    | Surveyors Umbrella.....             | 49           |
| Cable, GPS.....                      | 38       | Holder, Lumber Crayon.....    | 48          | Pin, Chaining.....             | 49       |                                     |              |
| Cable, Power.....                    | 38       | Holder, Spray Can.....        | 46          | Pipe, Iron.....                | 52       | <b>T</b>                            |              |
| Calculator.....                      | 26       | Hook, Manhole.....            | 50          | Pipe Laser.....                | 59       | Tack Ball.....                      | 51           |
| Cap, Plumb Bob.....                  | 47       | Hook, Plumb Bob.....          | 47          | Pipe Mic II.....               | 36       | Tack, Surveyors (Cup).....          | 51           |
| Case, Smart Level.....               | 50       | Hubs, Wood.....               | 52          | PLS Laser.....                 | 44       | Tally counter.....                  | 49           |
| Caution Tape.....                    | 45       | <b>K</b>                      |             | Plumb Bobs & Accessories.....  | 47       | Tape, Barricade.....                | 45           |
| Charger, Data Collector.....         | 24-25    | Keel.....                     | 48          | Pocket Rod.....                | 36       | Tape, Fiberglass.....               | 41           |
| Charger, GPS Battery.....            | 38       | <b>L</b>                      |             | Point, Plumb Bob.....          | 47       | Tape, Nyclad Steel.....             | 41-42        |
| Charger, Total Station Battery.....  | 38       | Lasers.....                   | 43-44,59-65 | Pointer, Lead.....             | 58       | Tape, Pocket.....                   | 38           |
| Chaser, Stake.....                   | 49       | Laser Alignment Tools.....    | 44          | Pole, GPS Rover.....           | 37       | Tape, Steel.....                    | 41-42        |
| Chaining pin.....                    | 49       | Laser rangefinder.....        | 43,44       | Pole, Range.....               | 34       | Target, Aerial.....                 | 45           |
| Clamp, Receiver.....                 | 45       | Laser receiver.....           | 61-64       | Pole, Mini Prism.....          | 29,30    | Target, Plumb Bob.....              | 47           |
| Clinometer.....                      | 48       | Laser scanner HDS.....        | 11          | Pole, prism.....               | 29,30    | Telescoping Level Rod.....          | 34-36        |
| Compass.....                         | 48       | Laser, accessories.....       | 59-60,65    | Pouch, Tool.....               | 47       | Template, Pocket.....               | 58           |
| Concrete monuments.....              | 52       | Lath bag.....                 | 45          | Prisms.....                    | 29       | Theodolite, Digital.....            | 20           |
| Concrete Scribe.....                 | 49       | Lath, Wood.....               | 52          | Prism adapters.....            | 35       | Total Stations.....                 | 13-19        |
| Cone, Traffic.....                   | 54       | Lead, Drafting.....           | 58          | Prism bag.....                 | 45       | Traffic Cone.....                   | 54           |
| Cooler, Water.....                   | 53       | Leadholder.....               | 58          | Prism, Double Right Angle..... | 48       | Transit, Level.....                 | 22           |
| Cord, Plumb Bob.....                 | 48       | Leather pouches.....          | 47          | Prism, Mini.....               | 29       | Tree, Floor.....                    | 32           |
| Counter, Tally.....                  | 49       | Lenker Rod.....               | 34          | Prism pole.....                | 29,30    | Triangles, Drafting.....            | 58           |
| Cradle Assembly, Data Collector..... | 37       | Level, Automatic.....         | 21          | Probe, Fiberglass.....         | 49       | Tribrach.....                       | 33           |
| Crayon, Lumber.....                  | 48       | Level Best graders.....       | 66          | <b>R</b>                       |          | Tribrach Adapter.....               | 29           |
| Credit application.....              | 69       | Level, Digital.....           | 23          | Radios, Handheld.....          | 33       | Tripod.....                         | 30-32        |
| Cylinder, Tribach Adjusting.....     | 33       | Level, Hand.....              | 48          | Range Pole.....                | 34       | Tripod, GPS.....                    | 37           |
| <b>D</b>                             |          | Level Rod.....                | 34-36,65    | Rebar.....                     | 52       | Tripod, Range Pole.....             | 30,34        |
| Data Cable.....                      | 38       | Level, Smart.....             | 50          | Rebar markers.....             | 51       |                                     |              |
| Data Collection Software.....        | 18,24-28 | Level Transit.....            | 22          | Receiver, Laser.....           | 61-63    | <b>U</b>                            |              |
| Data Collector.....                  | 18,24-26 | Leveling Rod.....             | 34-36,65    | Reel, Gammon.....              | 47-48    | Umbrella, Survey.....               | 49           |
| Digital level.....                   | 23       | Line generator.....           | 44          | Reference Stations, GPS.....   | 6        | <b>V</b>                            |              |
| Die Set.....                         | 50       | Line Transfer Unit.....       | 22          | Ribs, Road Sign.....           | 54       | Vest, Safety.....                   | 53           |
| Distancemeter, Laser.....            | 44       | Locator, Magnetic.....        | 40          | Right Angle Prism.....         | 48       | <b>W</b>                            |              |
| Disto.....                           | 43       | Lumber Crayons.....           | 48          | Road signs.....                | 54       | Water Cooler.....                   | 53           |
| Drafting Supplies.....               | 26,57-58 |                               |             | Rod Level.....                 | 36       | Wheel, Measuring.....               | 39           |
|                                      |          |                               |             | Rod, Laser Lenker.....         | 65       | Whiskers.....                       | 49           |
|                                      |          |                               |             | Rod, Lenker Style.....         | 34       | Wire flags.....                     | 45           |
|                                      |          |                               |             | Rod, Leveling.....             | 34-36,65 |                                     |              |
|                                      |          |                               |             | Rod, Pocket.....               | 36       |                                     |              |
|                                      |          |                               |             | Rule, Wood.....                | 42       |                                     |              |

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