AllTerra Gulf Nikon & Spectra Precision Solutions

DELIVERING THE SUPPORT TO KEEP YOU PRODUCTIVE





AllTerra Gulf



UAE, Oman, Qatar, Kuwait, Bahrain



DELIVERING THE RIGHT SUPPORT TO KEEP YOU PRODUCTIVE











Laser Level Systems



Spectra Precision® LL500 Medium Range, Highly Accurate

- Temperature compensation provides highly stable, repeatable accuracy even under large temperature changes
- · Working range- 500m
- · Accuracy-1.5mm@30m
- Self-leveling with built-in shut off for increased accuracy over the entire work area and reduced errors
- · Choice of the HL700 or CR600 receiver

Spectra Precision® LL400HV Long Range Horiz/Vertical

- · Fast setups with horizontal & vertical auto self-leveling
- · Ideal for general construction & alignment applications
- Working range-800m
- · Accuracy-1.5mm @ 30m
- · IP66 environmental rating withstands 1.5m tripod tipovers
- · Increases flexibility with optional long range radio control allowing auto Grade Matching & PlaneLok in horiz/vert. planes
- Choice of the CR600 or HL760 receiver

Spectra Precision® LL300N Medium-Range

- Fast setups increases productivity, horiz. & vert. auto self-leveling
- Working range- 500m
- Accuracy-2.2mm@30m
- IP66 environmental rating
- Durable design reduces downtime due to drops and tripod tipovers
- · Increases flexibility with optional long range radio remote control
- Choice of the HL450 or HL760 receiver





Designed to fit around tighter inverts, the Spectra Precision DG813 and DG613

deliver the most

productive pipe laying experience in the market. They are extremely rugged and thrive in demanding underground conditions. Benefitting from the latest technology developed by Spectra Precision, the beams move quickly and accurately for alignment and grade.

The top of the range model, the DG813 comes with a smart Spot Finder, which the laser can align to automatically and can also calculate the gradegreat for checking previous work on a second day set-up.

- · Shorter length
- Grade range: -12% to +40%
- Self-leveling over the entire grade range and full cross axis compensation
- Ultra-fast beam movement
- Operating range- 150m with radio/IR remote
- Large, intuitive graphic display on both the laser and remote (similar to UL633)
- IP68 protection (dust and waterproof)
- Flexible power options (NiMH / Alkaline)
- Advanced functions that increase productivity: Line Set/Check (first day setup), Line Scan (second day setup) and Line Alert
- Automatic functions for beam alignment, beam detection, and grade calculation (DG813 only)

Horizontal & Vertical Laser Systems



Spectra Precision® HV302

General Purpose Construction Laser for Interior/Exterior

Single-axis manual slope mode with 'cross-axis' selfleveling allows grade matching

for basic slope work, while maintaining accuracy in the cross-axis. Automatic Grade Match and PlaneLok using optional RC402N and HL760.



- Fully automatic self-leveling in both horizontal and vertical for fast, accurate setup
- Line scan & beam plunge for drywalls
- Working range- up to 800m
- · Accuracy-1.5mm@30m
- Preset adjustable rotation speed & scan line sizes for all interior application needs
- · IP66 environmental rating
- · Choice of HR150, HL450 or HL760 receivers

Spectra Precision® HV101

Leveling, Aligning, and Plumb Applications

Fully automatic self-leveling in both horizontal and vertical provides fast, accurate setup. Robust design withstands a 3



ft (1m) drop on concrete and still remains functional, reducing costs for downtime or repair .

- · Fast setups increase productivity with auto self-leveling
- · Beam is easily visible in brightly lit conditions
- Working range- 350m
- · Accuracy-3mm@30m
- Durable construction can withstand tough jobsites
- Split beam enables plumb point transfer and 90° layout
- Remote control offers scanning, speed control, slope setting, and alignment control for fast one person setups

Spectra Precision® QML 800

Quick Mark Layout System

The first tap 'n go interior layout system. Complicated shapes, arcs and curves are now easy to layout with no calculations required. Days of layout now become hours. Accuracy is improved and errors are not compounded from point to point.

- Visible X marks the spot
- Intuitive tablet interface with wireless communications between tablet and lasers
- Accuracy of ±3 mm
- Working range of 30m x 30m, visible distance up to 22m
- Locates points in 5 seconds with multiple point entry methods
- Labor reduction up to 50%
- Fast setup with minimal training- reduces trade conflicts on the job site
- Complex shapes and dense areas are easy to layout



New BuildView Field and Office Software

With the QML800, architectural files can now be loaded directly onto the tablet. The floor plan can be viewed in the BuildView field software.

Locating a point on the floor is as simple as tapping on the desired intersection or point on the drawing. BuildView is powerful, fast and simple to use.





Grade Laser Systems



The Most Comprehensive Range of Grade Laser You Will Find Today

All Spectra Precision® grade lasers are fully self-leveling and provide both single and dual grade lasers to meet all jobsite grade requirements.

Spectra Precision grade lasers automatically self-level to the desired grade elevation providing full control whilst working on sports pitches, car parks, roads, rail or other surfaces requiring grade.

Spectra Precision® GL700 Series High Precision, Extra Long Range Grade Lasers

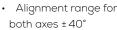
- Extremely rugged laser designed for machine central.
- Temperature compensation that provides accurate stable results regardless of temperature changes
- Long range- 900m diameter
- High accuracy- 4.6 arc seconds, 1.5 mm @ 60 m
- Dual grade (GL722, GL720) range: +/-10% X axis,
 -0.5% to +25% Y axis
- Single grade (GL710) range:
 -0.5% to +25% Y axis
- Full function long range wireless remote control
- *PlaneLok (GL722 a only) capable



Versatile, ±25% Dual Grade

 Ability to control level, alignment, single/dual grade and set 90°

 *PlaneLok capable and auto-axis alignment feature



- Full function remote control does everything you can do at the laser
- · Working range: 800m
- Accuracy: 10 arc seconds,
 1.5mm @ 30m

 Automatic temperature and grade compensation for high accuracy in any weather

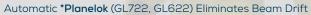




Spectra Precision® GL422N / GL412N Dual & Single Grade, Vertical Alignment

- Menu driven user interface reduces learning time & simplifies time to activate advance features
- Working range-800m
- Accuracy- 10 arc seconds, 1.5mm @ 30m
- Grade (single GL412N, dual GL422N) range:
 -10 to +15%
- RC402N radio remote allows control of all laser functions up to 100m
- IP66 environmental rating withstands 1.5m tripod tipovers
- Automatic Grade Match eliminates time consuming and error prone calculation
- Mask mode eliminates interference with other crews on jobsite Choice of the CR600 or HL760 receiver





Throughout the day beam drift occurs with all lasers as the temperature changes. The beam is locked on to the receiver and stays at the desired elevation all day long eliminating costly errors.

Focus® Total Stations



Powerful, Tough and Reliable

The Focus Series total stations offer versatility with the choice of onboard software: Spectra Precision Survey Pro™, Layout Pro field software or Survey Basic with roads software.

Designed to meet the needs in construction and surveying, the Focus Series delivers maximum precision, reliability and affordability.

Focus® 8 Series

Compact, Affordable Total Station

The FOCUS 8 instruments are compact, lightweight and built tough to use on any work site in all dust, dirt and weather conditions. The fast, long range EDM measures in both prism and reflectorless modes with both being available at the same time and initiated with a single key press.

- 2" and 5" angle accuracy
- Affordable Total Station
- Windows CE
- Accurate distances and stable angles
- Up to 500m reflectorless measurement
- · Tough and reliable
- Spectra Precision Survey Pro onboard
- All-weather construction
- Long battery life

 Long battery life 	е			
	FOCUS 8			
	2″	5″		
Accuracy (ISO 17123-3)	2" (0.6mgon)	5" (1.5mgon)		
Distance Measure	Good Condition			
Reflectorless (KGC 90%)	up to 500m			
w/ Single Prism	3,000m	5,000m		
Distance Accuracy	±(3+3 ppm × D) mm			

Focus® 35 Series

Fully Robotic Total Station

The powerful Spectra Precision FOCUS®

35 Total Station is a fully robotic motorized solution provides improved speed, accuracy and precision in measurement.



- LockNGo[™] tracking technology
- Spectra Precision Survey
 Pro[™] software on-board
- Available in 1", 2", 3" and 5" angle accuracies
- Long-range, reflectorless distance measurement
- Available RX models with extended operation dual battery system.
- High-precision prism measurements
- GeoLock™ GPS-assist technology
- · PIN code securiy locking system

	FOCUS 35			
	1" 2" 3" 5"			5″
Accuracy	1" (0.3 mgon)	2" (0.6 mgon)	3" (10 mgon)	5" (1.5 mgon)
Distance Measure	Good Condition			
Reflectorless (KGC 90%)	up to 400m			
w/ Single Prism	4,000m			
Distance Accuracy	with Prism (ISO 17123-4)			
Standard	2 mm + 2 ppm			
For 1 Sec Focus	1 mm + 2ppm			
Tracking Mode		5 mm	+2 ppm	
Max. Robotic Range	300m to 800m			



Nikon Total Stations



Next Generation of Measurement Tools

Nikon's next generation total station is the Nivo™ Total Station, available in two exciting lines: the Nivo C Series and Nivo M Series. Both of the Nivo series are the absolute leaders for go anywhere measurement tools.

Compact in size and lightweight, they are convenient to carry over long distances. All Nivo models are supported with legendary Nikon high clarity optics, allowing clearer images in bright and low light conditions, making measurements easy and reducing eye stress.

Nikon™ Nivo C Series **High Productivity Total Stations**

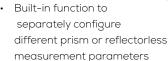
The Nivo C Series is designed with a feature-packed Windows® CE touchscreen interface. Three powerful field software applications cater for all levels of your surveying and construction measurement needs.

- Spectra Precision® Survey Pro™ software
- Survey Basic with Roads software
- · Layout Pro software
- · Communication: 1 x serial (RS-232C), 2 x USB (host and client); Integrated Bluetooth®





and quality together in perfect harmony to produce the Nikon M+ Series. These compact and efficient products use a field-proven Nikon interface and field software that is quick to learn and easy-to-use.





- Simple data management of
- Quick-coding for convenient one-button data collection of point features and your raw target data
- Communication: 1 x serial (RS-232C), 1 x USB (host); Integrated Bluetooth®

Continue Your Work with No Interruptions.

There is no need to worry about interrupting your workflow when power gets low, thanks to long-lasting, hot swappable batteries.

	NIVO M+ SERIES		
	2.M+ 3.M+ 5.M+		
Accuracy ISO 17123-3	2" (0.5mgon)	3" (1.0mgon)	5" (1.5mgon)
Distance Measure	Good/Normal Condition		
Reflectorless (KGC 90%)	500m/400m 500m/500m		
w/ Single Prism	3,000m 5,000m		00m
Accuracy (Prism; Reflectorless)	(2+2 ppm × D) mm; (3+2 ppm x D) mm		





Nikon™ NPL322+ Series

Verstatile Reflectorless Total Stations

The NPL-322+ Total Station is an economic, versatile, and easy-to-use platform that ensures you get the job done right. Legendary Nikon optics effectively allow in more light to give you brighter, clearer images.



- 50,000 point onboard storage
- Dual face (2"), and Single face (5") model
- Dual axis compensation
- Convenient and long-lasting Li-ion battery
- Communications: 1 x serial (RS-232C), Integrated Bluetooth®

NIKON NPL322+		
NPL-322+ 2" NPL-322+ 5"		
2" (0.6mgon)	5" (1.5mgon)	
Good Condition		
1.5 m to 400 m		
1.5m to 3,000 m		
(2+2 ppm × D) mm; (3+3 ppm x D) mm		
	NPL-322+ 2" 2" (0.6mgon) Good C 1.5 m to 3	

Nikon™ DTM322+ Series

Economical, Verstatile Total Stations

The DTM-322+ Total Station is an economic, versatile, and easy-to-use platform that ensures you get the job done right. Among the fastest total stations in its class, so you can move quickly through your routines and spend less time in the field. The DTM-322+ is rugged and lightweight.



- 50,000 point onboard storage
- Dual face (2"), and Single face (5") model
- Dual axis compensation
- · Convenient and long-lasting Li-ion battery
- Communications: 1 x serial (RS-232C), Integrated Bluetooth®

	NIKON DTM322+		
	DTM-322+ 2" DTM-322+ 5"		
Accuracy ISO 17123-3	2" (0.6mgon) 5" (1.5mgon)		
Distance Measure	Good Condition		
w/Reflector Sheet	5 m to 100 m		
w/ Single Prism	2,300 m		
Accuracy (Prism/Precise Mode)	±(3+2 ppm × D) mm		





Theodolites



Spectra Precision® DET-2

Full Featured Digital Electronic Theodolite

The DET-2 is a rugged, cost- effective theodolite designed to give accurate angle measurements.

- Dual, large liquid crystal display
- · Optical plummet
- Built-in reticle illuminator and LCD back-lighting
- · Vertical axis compensation



Nikon™ NE100 Series

Accurate, Affordable Theodolites

Designed for general construction and survey applications, Nikon NE-100 Series electronic digital theodolites give you accurate measurements in an affordable, easy-to-use platform.

- · Ergonomic keypad with one-touch functions
- · Large, backlit LCD display
- Built-in reticle illuminator and backlit LCD
- Water-resistant

	NIKON NE100 SERIES			
	NE-100 NE-101 NE-103			
Accuracy DIN 18723	10" (3.0mgon)	7" (2.0mgon)	5" (1.0mgon)	
Reading System	Photoelec	tric Incrementa	l Encoder	
Min. Digital Reading	10/20"(2/5 mgon)	5/10" (1/2 mgon)	1"	
Magnification	30x			
Field of View	1° 20′ (2.3 m @ 100 m)			

	SPECTRA THEODOLITE	
	DET-2	
Accuracy DIN 18723	2"	
Tilt Sensor	Automatic Compensation, ±3' Range	
Min. Digital Reading	1" or 5"	
Magnification	30x	
Field of View	1° 30′	

Software

Survey Pro

- Complete Mechanical Instrument Support
- All data collection features
- Basic point stakeout
- · Basic COGO including Inverses, Intersections, Manual Traverse, Area and much more
- Basic Curve Solutions
- · All the fundamental features required to properly manage a survey job



Survey Office

- Complete Mechanical InstruEasy data management
- Fast and powerful processing
- Quality assurance
- Complete survey project control



Autolevels



Brighter, Sharper Image

Nikon automatic levels are designed for a variety of elevation control and alignment tasks including general building construction, cut and fill measurements, area leveling, and landscaping.

- Choice of magnetic or air-dampened automatic compensators
- Double-sided, continuous horizontal tangent drives
- · Stadia lines for simple distance measurement
- · Convenient horizontal angle measurement
- Built in bubble mirror and optical sighting alignment
- · Metal housing increases durability
- Choice of water resistant or waterproof construction

	AIR DAMPENED				
	AE-7 AE-7C AS-2 AS-2				
Magnification	30x	30x	34x	34x	
Accuracy (1km double run leveling)	± 1.0 mm	± 1.0 mm	± 0.8 mm	± 0.8 mm	
Stadia Ratio	1:100	1:100	1:100	1:100	
Minimum Focusing Distance	0.3 m	0.3 m	1.0 m	1.0 m	

	MAGNETIC-DAMPENED		
	AX-2S	AC-2S	AP-8
Magnification	20x	24x	28x
Accuracy (1km double run leveling)	± 2.5 mm	± 2.0 mm	± 1.5 mm
Stadia Ratio	1:100	1:100	1:100
Minimum Focusing Distance	0.75 m	0.75 m	0.75 m

Nikon™ AE/AS Series

Nikon AS/AE Series auto levels feature waterproof, nitrogen-filled, high-power telescopes that help you make precise measurements even in the

wettest conditions.

The AE/AS series feature a unique automatic air-dampened compensator to prevent magnetic interference, and an endless horizontal fine drive to ensure smooth, precise pointing and angular measurement.



- · Compact and lightweight
- Waterproof construction
- · Automatic air-dampened compensator
- · Standard optical sight lens
- Powerful telescopes with improved minimum focusing

Nikon™ AX/AC/AP Series

Easy to set up and use. Horizontal tangent knobs with an unlimited range ensure smooth, precise pointing and angular measurement, and you can operate them with either hand.

Compact and lightweight

- Water-resistant construction
- Magnetic-dampened automatic compensator
- Horizontal tangent knobs with unlimited range
- Smooth, precise pointing and angular measurement
- · Detachable eyepiece lens



Digital Levels



Affordable Technology with Powerful **Functionality**

The Spectra Precision® FOCUS DL-15 digital level is a new, very affordable, digital level delivering simplicity, ease-ofuse and versatile onboard software to provide consistent precision, performance and productivity.

Easy to learn and use, instantly productive, the FOCUS DL-15 provides consistent measurement precision. It eliminates reading and recording errors and reduces operator eye fatigue.



Focus® DL 15

Instantly Productive Digital Level

The FOCUS DL-15 digital level provides consistent height measurement precision through electronic reading of a bar code staff to an accuracy of 1.5mm per 1 km double leveling run. Featuring internal data storage and a distance measurement range of 100m, the Spectra Precision digital level is affordable, versatile, and easy to use, an ideal choice for value.

· Electronic reading provides consistent measurement precision

Measure and record quickly with a single key press

Onboard measurement software for common leveling tasks including height determination, calculation of elevations, height differences and Cut and Fill Stakeout

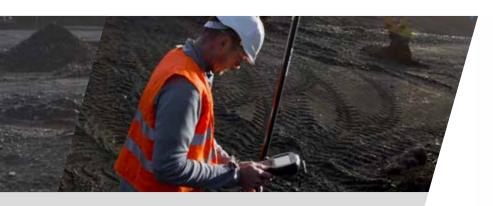
• 16 MB of internal data storage and easy transfer mini-USB



- Easy to learn and use, instantly productive, the FOCUS DL-15 provides consistent measurement precision. It eliminates reading and recording errors and reduces operator eye fatigue.
- Use on a wide range and variety of tasks requiring precise height determination. It enables the user to initiate a measurement and record the data at the push of a button.
- The FOCUS DL-15 contains measurement routines for common leveling tasks including height determination, calculation of elevations, height differences and Cut and
- Simple data transfer from the FOCUS DL-15 via USB cable.

	DIGITAL LEVEL		
	DL-15		
Accuracy, DIN 18723	1.5 mm (electronic); 2.0m (optical)		
Measurement Range	100m		
Resolution	Height Measurement: 1mm / 0.1mm Distance Measurement: 0.01m / 0.001m		
Magnification	32x		

GNSS

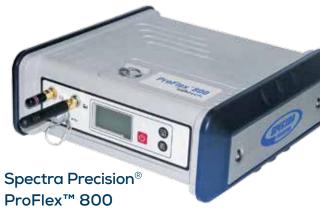




Powerful GNSS Solutions

Spectra Precision GNSS receivers offer fast and reliable positioning solutions that meet a wide range capabilities. Maximize value with the technology that enables surveyors to increase accuracy, efficiency and productivity.

The SP80, SP60, and ProFlex 800 use the unique Z-Blade technology to track and process all available GNSS signals, to provide the most reliable measurements and the highest possible accuracies in challenging environments.



Ultra-Rugged, Highly Integrated Receiver System

The ProFlex[™] 800 GNSS system is a powerful GNSS positioning solution offering outstanding RTK performance. ProFlex 800 with Z-Blade technology is a perfect back-pack rover or reference station solution for precise land surveying. Its innovative design makes it ideal for onboard system integration it can be mounted easily on a machine or vehicle for land or sea operations.

- Z-Blade GNSS-centric technology
- · Fast and reliable RTK fix
- Ultra rugged weatherproof design
- · Built-in communication features
- Embedded Web server
- Flexible GNSS receiver for multiple applications

Spectra Precision® SP60

Extremely Scalable & Versatile **GNSS Receiver**

The Spectra Precision SP60 offers a high level of flexibility to cover any demand from GIS all the way up to sophisticated RTK and Trimble RTX[™] capable solutions.

Combining the unique all-signals tracking and processing Z-Blade GNSS-centric technology and L-band capability for satellite-delivered Trimble RTX correction services, the SP60 receiver provides the most reliable measurements and the highest possible accuracy.

- · Extended survey scalability
- 240-channel 6G ASIC
- Z-Blade GNSS-centric technology
- 240-channel 6G ASI
- Long Range Bluetooth
- Anti-theft protection

Spectra Precision® SP80

Powerful, Rugged and Easy-to-Use Receiver

The SP80 offers the best communications and connectivity capabilities available today including SMS and email alerts and anti-theft protection. The ergonomic design and unlimited operating time make the SP80 an extremely versatile and complete solution.

- Patented Z-Blade technology
- 240-channel 6G ASIC
- Built-in WiFi communication
- Hot-swappable batteries
- Internal TRx UHF radio
- 3.5G cellular modem · SMS and e-mail alerts
- · Anti-theft technology
- Backup RTK
- · RTK Bridge





GIS Mobile Mapping & Data Collectors



Spectra Precision® MM300 **High-Accuracy Mobile Mapper**

- Accuracy on many mobile devices
- · Compatible with Android
- · Straight forward integration with any GIS application
- · Scalable from mapping grade to full RTK accuracy
- · Compact, light weight and configuration-free GNSS receiver
- · Space control application for all required GNSS settings

Spectra Precision® MM120

High-Accuracy Mobile Mapper

- Sub-meter real time accuracy
- · Integrated communications
- · Flexible and powerful platform
- · Ruggedized for professional use
- · Very lightweight and compact design



Spectra Precision® T41 **Compact Data Collector**

- · Rugged design with 4.3" display protected by Gorilla® Glass
- Windows Embedded Handheld
- 8 megapixel camera with dual LED flash
- · Bluetooth, WiFi and 3.75G cellular connectivity
- 1 GHz CPU with 512MB RAM, 16GB Flash storage
- · Full-Day battery life

Spectra Precision® Ranger™

Large Screen Data Collector

- · Large, bright, sunlight- readable color VGA screen
- Meets MIL-STD-810G standards
- IP67 rating
- SDHC card slot and USB connections
- 30+ hour rechargeable battery
- Windows Mobile 65
- · Integrated Bluetooth, Wi-Fi, Compass and GPS



Spectra Precision® MM50

New Generation GIS Data Collector

The MM50 is a complete Field and Office mapping solution, running on Android which offers state of the art smartphone capabilities combined with rugged professional quality and improved GNSS performance.

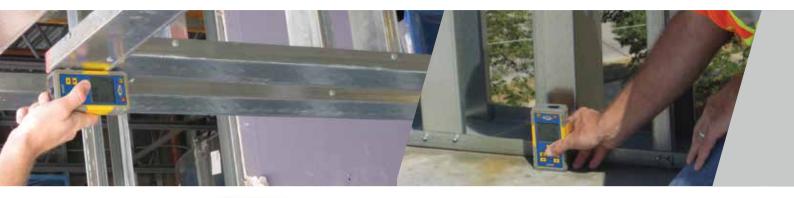


The Mobile Mapper MM50 receiver is slim, highly rugged and very powerful (1.2 GHz quad core processor, 16GB memory and 5.3" display) and also offers GNSS accurate positioning (GPS + GLO or GPS + Beidou) as well as post processing.

- · Compact and lightweight
- Wi-Fi only and 4G versions
- Enhanced GNSS with postprocessing
- Strong, waterproof casing IP67
- Google Mobile Services



Measuring Tools



Spectra Precision® **QM55**

- · Rugged, designed to withstand drops up to 1.5m - reduces downtime
- 50m measuring rangemeasure in difficult to reach areas
- Accuracy of ±1.5 mm over the entire range - reduces errors
- Simple area and volume functions
- Pythagoras functions provides indirect height or width for inaccessible areas
- · Long battery life over 5000 measurements

ST-312M

1M Measuring Wheel

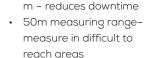
Lightweight, compact plastic wheel is perfect for estimates. Comfortable rubber grip handle.

- · Counter with reset switch reads up to 9.999 m
- · Aluminum 3-section telescoping handle with clamps for quick release and collapse of handle for easy storage



- withstand drops up to 1.5 m - reduces downtime
- 70m measuring rangemeasure in difficult to reach areas
- Accuracy of ±1.5 mm over the entire range-reduces errors
- Simple one button operation
- Versatile use both indoor and outdoor
- Long battery life 8000 measurements





- Accuracy of ±1.5 mm over the entire range-reduces errors
- Simple area and volume functions
- Pythagoras functions provides indirect height or width for inaccessible areas
- Long battery life over 5000 measurements



Length

Scale UOM

10cm Dual Measuring Wheel

Lightweight materials and quality construction makes the ST-204M the perfect choice for the construction

- Counter with reset switch measures m/cm
- Three-section aluminum telescopic handle with quick clamps for easy storage
- Two wide, precision molded tires provide accurate measurements on any smooth surface



Fiberglass Tapes • Durable with non-woven

pvc-coated fiberglass

- · Waterproof
- Easy to rewind with fast I design (3:1 gear ratio), wi crank handle
- Tape width is 12.7mm



FIBERGLASS TAPES			
ST-Y30M	ST-Y100M		
30 m	50 m	100 m	
m, cm, mm	m, cm, mm	m, cm, mm	
Dual-sided	Dual-sided	Dual-sided	





Precise Single Tilting Prisms

- Precision glass up to 2 arc seconds with 0/-30mm offset tilting prism assembly
- Prism canister molded from durable lightweight polycarbonate, ST-2010M has a metal yoke with polycarbonate target. ST-1010 has an aluminum target and metal yoke.

	TILTING PRISMS		
	ST-1010 ST-2010M		
Offset	0/-30 mm	0/-30 mm	
Holder	Metal	Metal	
Target	Metal, Tilting	Polycarbonate, 360° rotation	
Mounting Type	5/8-11 Bayonet	5/8-11 Bayonet	

ST-CLS22

Range/Prism Pole Bipod

- Side entry head with clamp for quick and easy pole setup
- Unique locking system provides non-slip quick clamping
- Thumb release style allows easy adjustments
- Fits 25mm-38mm diameter poles
- Opens to 182cm, Closes to 108cm

58128001-HH Precise 360° Prism

- Constant ±2 mm
- 360° robotic
- · Includes height adapter



GNSS Poles, Carbon Fiber

- Lightweight telescoping carbon fiber pole
- Snap-loc for pole with compression lock
- On-board 40-minute, adjustable circular vial

	GNSS POLES		
	ST-GLS22	ST-GLS25	ST-GLS26
Length	2.0 m Fixed	2.5 m, Adj.	1.8 m, 2.0 m
Material	Carbon Fiber	Carbon Fiber / Aluminum	Carbon Fiber
Locking Type	5/8-11 Screw	5/8-11 Screw	Compression
Wgt	1.5kg	1.5kg	1.5kg
Sections	2	2	2

Prism Poles, Aluminum

- Adjustable tip with 5/8-11 adapter for prism mounting
- Lightweight aluminum prism pole
- Easily visible precise 40-minute level vial
- · Anodized dual-graduation marks

PRISM POLES			
ST-4208-TMA	ST-4215-TMA	ST-4708-TMA	ST-4715-TMA
2.5 m	4.6 m	2.5 m	4.6 m
Aluminum	Aluminum	Aluminum	Aluminum
Compression	Compression	Twist-Lock	Twist-Lock
0.95 kg	1.72 kg	0.95 kg	1.72 kg
2	4	2	4

Accessories

Quick Release Pole Clamps

Easily clamps to pole with special design to prevent overtightening the pole clamp screw. Compatible with many popular quick-release cradles to hold data controllers.

- · Clamping feature is limited to prevent overtightening on pole
- Ideal for RTK and GNSS surveys requiring a pole and a data collector.
- · Made of anodized aluminum for durability and performance.

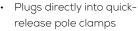


QUICK RELEASE POLE CLAMPS

	ST-TC-3	ST-TC-5
Cradle Connection	Quick-Release	Quick-Release
Fits Pole Size	32mm	32mm
Pole Locking	Quick clamp	Quick clamp
Features	Vial and Compass	

Quick Release Cradles

· Easily secures data collector/controller with anti-crush quick release design that locks cradle when tightened



Durable anodized aluminum design



	QUICK RELEASE CRADLES		
	ST-TC-8-5	ST-TC-8-6	
Designed For Model	Recon	TSC3	
Plug Type	Quick-Release	Quick-Release	
Cradle Lock	Anti-Crush Twist Lock	Anti-Crush Twist Lock	

Tribrach, with Optical Plummet

- · Smooth locking mechanism with secure motion foot screws
- Precise alignment of support cavity to the base plate assures accurate centering of instrument
- Durable to endure most weather conditions



	TRIBRACH	
	ST-AJ12-D	2152-05
Plummet Type	Optical	Optical, Trimble
Focus	0.3 -15m	0.3 -15m

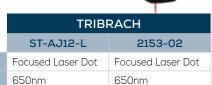
Tribrach, Laser Plummet

· Bright 650-nm focused laser dot

Circular vial w/8-minute sensitivity

· Standard three-prong forced centering with center lines

 Included is a standard 3 volt CR2 lithium battery



Tribrach Adapters

- Anodized aluminum studs
- Fits all tribrachs

Plummet Type

Laser Type









	TRIBRACH ADAPTER		
	ST-AL2	ST-AL3	ST-AL4
Adapter Type	Fixed	Friction, Rotating	Zeiss/Wild, Adjustable
Rotating		Yes	Yes
Mounting Studs	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum
Mounting	5/8-11	5/8-11	5/8-11



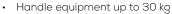
Accessories



Trimble Tri-Max

Heavy-Duty Fiberglass Tripod

The Tri-Max features a 168mm head with large center hole (67mm) to facilitate an easy set-up over a point. A retaining system—which prevents leg kick out and accidental falls on slick surfaces—is stored on the inside of the leg and can be left in place when the tripod is not in use.



- Foot is equipped with a replaceable point and a retention loop for use with a safety strap
- · Extended height: 1.8m

Heavy-Duty Stability

Dual clamp including wing screws and screw clamp lock.



ST-FG20-MAX

Heavy-Duty Fiberglass Tripod

The ST-FG20 provides stability and weather resistance with large round aluminum head and leg hinges. Double banded extension legs and large positive locking quick clamp with wing screw for extra stability. Powder coated wear-resistant metal hardware.

- Special engineered plastic shoe with hardened steel replaceable shoe points
- Heavy-duty poly-webbing shoulder strap for ease of carrying to the job site
- Extended height: 183cm; collapsed height: 107cm

ST-FGHD20

Fiberglass Heavy Duty Tripod

The ST-FGHD20 is the best value heavy duty fiberglass tripod on the market. Double banded extension legs and large positive locking quick clamp add extra stability. Large aluminum head and leg hinges provide stable mounting base. Powder coated wear-resistant metal hardware.

- Fiberglass shoe with hardened steel replaceable shoe points
- Heavy-duty poly-webbing shoulder strap for ease of carrying to the job site
- Extended height: 183cm; collapsed height: 107cm

ST-WDF20

Wood/Fiberglass Heavy Duty Tripod

Combination of hardwood legs with fiberglass dowels the ST-WDF20 provides stability and weather resistance. Double banded extension legs and large positive locking quick clamp add extra stability. Powder coated wear-resistant metal hardware.

- Aluminum shoe with hardened steel replaceable shoe points
- Heavy-duty poly-webbing shoulder strap for ease of carrying to the job site
- Extended height: 183cm; collapsed height: 107cm

ST-WDW20

Wood Heavy Duty Tripod

The ST-WDW20 is made of high quality hardwood with wide-frame extension legs and 1" diameter dowels. Large aluminum head and leg hinges provide stable mounting base. Wing screw style clamp with die cast aluminum hardware for maximum stability.

- Wear-resistant with treated finish and powder coated metal hardware
- Aluminum shoe with hardened steel replaceable shoe points
- Plastic head cap for protection, heavy-duty poly-webbing shoulder strap
- Extended height: 183cm; collapsed height: 107cm





Accessories

ST-ALQC20

Aluminum Tripod

The ST-ALQC20 is a lightweight, aluminum tripod with positive locking quick clamp style clamps and individually tightened hinge screws. Designed with aluminum head, hinges, clamps and shoe castings with replaceable shoe points.

- Powder coated castings for durability and wear-resistance
- Heavy-duty poly-webbing shoulder strap
- · Extended height: 165cm; collapsed height: 99cm

ST-ALQR20

Heavy Duty Aluminum Tripod

The ST-ALOR20 is made with heavy gauge aluminum with added stability of double banded legs. Large aluminum head and leg hinges provide stable mounting base. Positive locking quick clamps with individually tightened hinge screws.

- Powder coated wear-resistant metal hardware
- Aluminum shoe with hardened steel replaceable shoe points
- Heavy-duty poly-webbing shoulder strap
- Extended height: 163cm; collapsed height: 102cm

ST-MCT

Machine Control Tripod

The ST-MCT provides stability on any terrain. Heavy duty, aluminum tripod built specifically for machine control applications. Adjustable center column with height adjustment range of 43cm and metal gear & rack system for smooth continuous motion.

Pointed feet and locking knobs stabilize tripod on any terrain.

- 5/8-11 mounting thread adapter on top of column can be easily removed to attach to base of your instrument
- Extended height: 3.4m; collapsed height: 1.8m

ST-ALQR20ELAZ

Heavy Duty Elevator Tripod

This heavy duty, aluminum tripod features positive locking quick clamp style clamps.

- Adjustable center column with height adjustment range of 31cm and metal gear & rack system for smooth continuous motion
- Special inner column provides additional 31cm height adjustment.
- Extended: 296cm; collapsed: 121cm

ST-FGC20ELAZ

Composite Elevator Tripod

This fiberglass tripod features positive locking quick clamp and double banded extension legs.

- Adjustable center column with height adjustment range of 51cm and metal gear & rack system with inner adjustment column for additional 66cm
- Extended: 303cm; collapsed: 125cm

Fiberglass Leveling Staffs/Rods

- · Non-conductive lightweight telescoping fiberglass
- Easy-to-read graduations and measuring scale on the backside
- Includes carrying case

	FIBERGLASS STAFFS	
	ST-905-M	ST-907-M
Length	5m	7m
Graduations	"E", mm (black)	"E", mm (black)
Sections	4	5

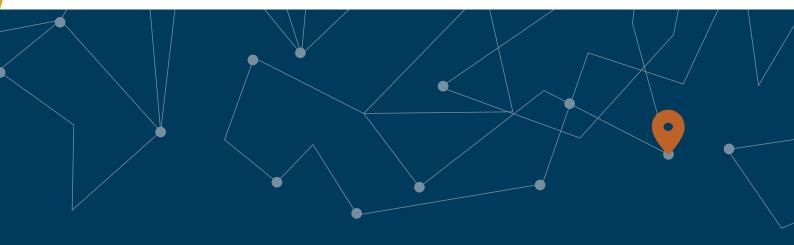
Aluminum Leveling Staffs/Rods

- Lightweight and durable telescoping aluminum leveling rods with carrying case
- Easy-to-read graduations and measuring scale on the backside

*		ALUMINUM STAFFS		
		ST-804-M	ST-805-M	
	Length	4m	5m	
	Graduations	"E", mm	"E", mm	
	Sections	4	5	







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