



# TRIMBLE FIELD POSITIONING SOLUTIONS





# Robotic Total Stations

## Trimble RPT 600



<b>GOOD</b>	Measuring Range (Prism)
<b>GOOD</b>	Measuring Range (Prismless)
<b>BETTER</b>	Laser Spot Visibility
<b>GOOD</b>	Accuracy Level
<b>YES</b>	Trimble VISION Compatible

## Trimble RTS 655



<b>BEST</b>	Measuring Range (Prism)
<b>BEST</b>	Measuring Range (Prismless)
<b>GOOD</b>	Laser Spot Visibility
<b>GOOD</b>	Accuracy Level
<b>NO</b>	Trimble VISION Compatible

## Trimble RTS 773



<b>BEST</b>	Measuring Range (Prism)
<b>GOOD</b>	Measuring Range (Prismless)
<b>GOOD</b>	Laser Spot Visibility
<b>BETTER</b>	Accuracy Level
<b>YES</b>	Trimble VISION Compatible

## Trimble RTS 771



<b>BEST</b>	Measuring Range (Prism)
<b>GOOD</b>	Measuring Range (Prismless)
<b>GOOD</b>	Laser Spot Visibility
<b>BEST</b>	Accuracy Level
<b>YES</b>	Trimble VISION Compatible

## Trimble RTS 873



<b>BEST</b>	Measuring Range (Prism)
<b>GOOD</b>	Measuring Range (Prismless)
<b>BEST</b>	Laser Spot Visibility
<b>BETTER</b>	Accuracy Level
<b>YES</b>	Trimble VISION Compatible



# Specifications

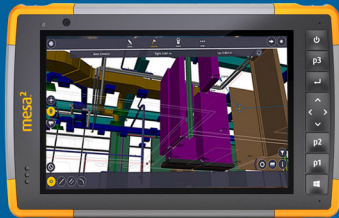


Performance	Trimble RPT 600	Trimble RTS 655	Trimble RTS 773	Trimble RTS 771	Trimble RTS 873
Angle measurement accuracy (Standard deviation based on DIN 18723)		5" (1.5 mgon)	3" (1.0 mgon)	1" (0.3 mgon)	3" (1.0 mgon)
Angle display		0.1" (0.01 mgon)	0.1" (0.01 mgon)	0.1" (0.01 mgon)	0.1" (0.01 mgon)
Field of view	H: 360° V: 225°				
Distance Measurement					
Prism Mode	3 mm @ 50 m, ISO 17123-5				
Standard		50m: 2mm (5/64"), 300m: 8mm (6/16")	50m: 2mm (5/64"), 300m: 6mm (5/64")	50m: 2mm (5/64"), 300m: 6mm (5/64")	50m: 2mm (5/64"), 300m: 6mm (5/64")
Tracking		50m: 5mm (13/64"), 300m: 10mm (25/64")	50m: 5mm (13/64"), 300m: 8mm (5/16")	50m: 5mm (13/64"), 300m: 8mm (5/16")	50m: 5mm (13/64"), 300m: 8mm (5/16")
DR Mode					
Standard		50m: 3mm (1/8"), 300m: 9mm (23/64")	50m: 3 mm (1/8"), 300m: 6 mm (15/64")	50m: 3 mm (1/8"), 300m: 6 mm (15/64")	50m: 3 mm (1/8"), 300m: 6 mm (15/64")
Tracking		50m: 10mm (25/64"), 300m: 13mm (33/64")	50m: 10 mm (25/64"), 300m: 12 mm (15/32")	50m: 10 mm (25/64"), 300m: 12 mm (15/32")	50m: 10 mm (25/64"), 300m: 12 mm (15/32")
Measuring time					
Prism mode					
Standard	2.5s	2.5s	2.5s	2.5s	2.5s
Tracking	0.4s	0.4s	0.4s	0.4s	0.4s
Averaged observations	2.5s per measurement	2.5s per measurement	2.5s per measurement	2.5s per measurement	2.5s per measurement
DR mode					
Standard	3-15s	3-15s	3-15s	3-15s	3-15s
Tracking	0.4s	0.4s	0.4s	0.4s	0.4s
Range (under standard clear conditions)					
Prism mode					
1 Prism	100 m (328 ft)	2,500m (8,202 ft)	3,000m (9,800 ft)	3,000m (9,800 ft)	3,000m (9,800 ft)
Shortest Range		1.5m (4.9 ft)	1.5m (4.9ft)	1.5m (4.9ft)	1.5m (4.9ft)
DR Mode	100 m (328 ft)				
Good Visibility					
White card (90% reflective)		400 m (1312 ft)	>150 m (492 ft)	>150 m (492 ft)	>150 m (492 ft)
Gray card (18% reflective)		250 m (820 ft)	>120 m (394 ft)	>120 m (394 ft)	>120 m (394 ft)
Normal Visibility					
White card (90% reflective)		400 m (1312 ft)	150 m (492 ft)	150 m (492 ft)	150 m (492 ft)
Gray card (18% reflective)		250 m (820 ft)	120 m (394 ft)	120 m (394 ft)	120 m (394 ft)
Difficult Visibility					
White card (90% reflective)		186 m (610 ft)	70 m (229 ft)	70 m (229 ft)	70 m (229 ft)
Gray card (18% reflective)		116 m (381 ft)	50 m (164 ft)	50 m (164 ft)	50 m (164 ft)
Laser pointer coaxial (standard)	Green laser class 2	Laser class 2	Laser class 2	Laser class 2	Autofocusing green laser class 2
General Specifications					
Leveling					
Circular level in tribrach		8/2 mm (8/0.007 ft)	8/2 mm (8/0.007 ft)	8/2 mm (8/0.007 ft)	8/2 mm (8/0.007 ft)
Automatic level compensator					
Type		Centered dual-axis	Centered dual-axis	Centered dual-axis	Centered dual-axis
Accuracy		0.5" (0.15mgon)	0.5" (0.15mgon)	0.5" (0.15mgon)	0.5" (0.15mgon)
Range	±10'	±5.4' (±100mgon)	±5.4' (±100mgon)	±5.4' (±100mgon)	±5.4' (±100mgon)
Servo system		MagDrive servo technology, integrated servo/angle sensor; electromagnetic direct drive	MagDrive servo technology, integrated servo/angle sensor; electromagnetic direct drive	MagDrive servo technology, integrated servo/angle sensor; electromagnetic direct drive	MagDrive servo technology, integrated servo/angle sensor; electromagnetic direct drive
Telescope					
Magnification	N/A	30x	30x	30x	N/A
Aperture	N/A	40 mm (1.57 in)	40 mm (1.57 in)	40 mm (1.57 in)	N/A
Field of view at 100m (328 ft)	N/A	2.6m at 100m (8.5 ft at 328 ft)	2.6m at 100m (8.5 ft at 328 ft)	2.6m at 100m (8.5 ft at 328 ft)	N/A
Shortest focusing distance	N/A	1.5 m (4.92 ft) to infinity	1.5 m (4.92 ft) to infinity	1.5 m (4.92 ft) to infinity	N/A
Illuminated crosshair	N/A	Variable (10 steps)	Variable (10 steps)	Variable (10 steps)	N/A
Autofocus	Standard	Standard	Standard	Standard	Standard
Tracklight build in	VISION	Yes	VISION	VISION	VISION
Operating temperature	-20C to +50C (-4F to +122F)	-20C to +50C (-4F to +122F)	-20C to +50C (-4F to +122F)	-20C to +50C (-4F to +122F)	-20C to +50C (-4F to +122F)
Dust and water proofing	IP55	IP55	IP55	IP55	IP55
Humidity	100% condensing	100% condensing	100% condensing	100% condensing	100% condensing
Power supply					
Internal battery	Rechargeable Li-Ion battery 11.1V, 5.0Ah	Rechargeable Li-Ion battery 11.1V, 5.0Ah	Rechargeable Li-Ion battery 11.1V, 5.0Ah	Rechargeable Li-Ion battery 11.1V, 5.0Ah	Rechargeable Li-Ion battery 11.1V, 5.0Ah
Operating time					
One internal battery	Approx. 6.5 hours	Approx. 6.5 hours	Approx. 6.5 hours	Approx. 6.5 hours	Approx. 6.5 hours
Three internal batteries in multi-battery adapter	Approx. 18 hours	Approx. 18 hours	Approx. 18 hours	Approx. 18 hours	Approx. 18 hours
Robotic holder with one internal battery	13.5hours	13.5hours	13.5hours	13.5hours	13.5hours
Operating time with video robotic					
One battery	5.5 hours	5.5 hours	5.5 hours	5.5 hours	5.5 hours
Three batteries in multi-battery adapter		17 hours	17 hours	17 hours	17 hours
Communication	Self-contained WiFi communication	USB, Serial, Bluetooth, 2.4 GHz radio	USB, Serial, Bluetooth, 2.4 GHz radio	USB, Serial, Bluetooth, 2.4 GHz radio	USB, Serial, Bluetooth, 2.4 GHz radio
Security		Dual-layer password protection	Dual-layer password protection	Dual-layer password protection	Dual-layer password protection
Robotic Range					
Autolock and Robotic range					
Passive prisms	100 m (328 ft)	500-700 m (1,640-2,297 ft)	500-700 m (1,640-2,297 ft)	500-700 m (1,640-2,297 ft)	500-700 m (1,640-2,297 ft)
Trimble MultiTrack Target	N/A	800m (2,625ft)	800m (2,625ft)	800m (2,625ft)	800m (2,625ft)
Autolock positioning precision at 200m (standard deviation)					
Passive prism	<2 mm (0.007 ft)	<2 mm (0.007 ft)	<2 mm (0.007 ft)	<2 mm (0.007 ft)	<2 mm (0.007 ft)
Trimble MultiTrack Target	N/A	<2mm(0.007ft)	<2mm(0.007ft)	<2mm(0.007ft)	<2mm(0.007ft)
Shortest reach distance	0.2 m (.65 ft)	0.2 m (.65 ft)	0.2 m (.65 ft)	0.2 m (.65 ft)	0.2 m (.65 ft)
Search time (typical)	2-10s	2-10s	2-10s	2-10s	2-10s



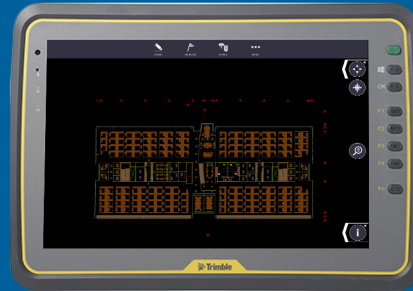
# Robotic Total Station & GPS Controllers

## Trimble Field Link Juniper Mesa 2 Tablet



- Ultra-portable & rugged design
- Weight: 1.5-2 lbs
- Durable, chemical- and shock-resistant design
- Easy-to-grip, impact-absorbing, overmolded bumpers
- Lightweight and ergonomic design
- Removable Li-Ion battery, 39 Whr
- Operates 8–10 hours on one charge
- Optimized for strong performance in cold temperatures
- High-visibility backlit 7" LCD display
- Capacitive multi-touch interface
- IP68 waterproof and dustproof
- Operating Temperature: -4 F to 122 F
- Quad-core Intel® Atom Processor

## Trimble Field Link Trimble Kenai Tablet



- Rugged waterproof design
- 10-point multi-touch touchscreen
- Military grade MIL-STD-810G
- Fast solid state drive
- Integrated 2.4 Ghz radio
- Billionton Bluetooth v. 2.1 + EDR Compliant
- IntelWiFiLink5100(CCX)
- Integrated GPS
- Outward and user-facing video and photo cameras
- Supports Trimble VISION
- 2D and 3D layout
- 3D Model viewer
- Daily field reports
- Store staked locations
- Export RFIs as PDFs with locations
- Lay out points, lines, arcs
- Surface module / floor flatness reports





# R8s GNSS Receiver



## Built for Building Construction

GPS and other Global Navigation Satellite System (GNSS) technologies have played a role in construction for years. Originally developed for land surveyors, workflows were often complex and overwhelming for non-specialists in the building industry. So when Trimble set out to design a GNSS system specifically for general contractors, it had to be simple. The system is controlled by the same software that controls our total stations, Trimble Field Link. So even novice users can be up and running in minutes with guided-workflows designed for building construction.

- Advanced Trimble Maxwell™ 6 Custom Survey GNSS chips with 440 channels
- Future-proof your investment with Trimble 360 tracking
- High precision multiple correlator for GNSS pseudorange measurements
- Very low noise GNSS carrier phase measurements with <1 mm precision in a 1 Hz bandwidth
- Signal-to-Noise ratios reported in dB-Hz
- Proven Trimble low elevation tracking technology

### • Single Baseline <30 km

Horizontal: 8mm+1ppmRMS  
Vertical: 15mm+1ppmRMS

### • Network RTK3

Horizontal: 8mm+0.5ppmRMS  
Vertical: 15 mm + 0.5 ppm RMS  
Initializationtime: typically<8seconds  
Initializationreliability: typically>99.9%

### Satellite signals tracked simultaneously:

- GPS: L1C/A, L1C, L2C, L2E
- GLONASS: L1C/A, L1P, L2C/A, L2P, L3
- Galileo: E1, E5A, E5B
- BeiDou (COMPASS): B1, B2



# QML800G QuickMark Layout

## Built for Building Construction

The Spectra Precision® QML800G QuickMark Layout system is composed of two bright, green beam lasers that mark a visible "X" at the desired point location. The system communicates via Wi-Fi with an Android tablet controller. Architectural files can be loaded directly onto the tablet and 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. The point is located on the floor with a laser X with a few seconds.

- Accuracy: 3 mm (1/8") typical
- Self-leveling range: 4σ ±1σ from true level
- Working range  
Typical work area: 30m x 30m (100ftx100ft)  
Visible distance: 22m (70ft)
- Battery Operating time: 16 hrs red laser, 10 hrs green laser
- Laser Class: Class II, less than 1 mW -Laser Type: 522 - 635 nm, IP: IP54 rating
- Operating temperature: -10C - 45C (14F - 113F)

### • Controller

Model: Google Nexus 7  
Manufacturer: Asus  
Size Screen: 7 inch (178mm) diagonal

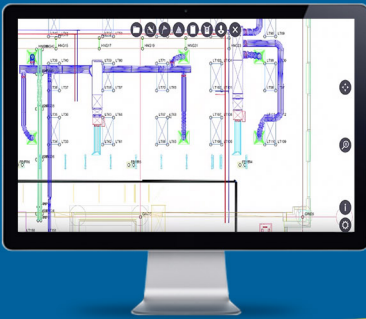
### Wireless

Protocol: IEEE 802.11b/g/n  
Frequency: 2.4 - 2.497 GHz  
Range (typical): 35m (120 ft)



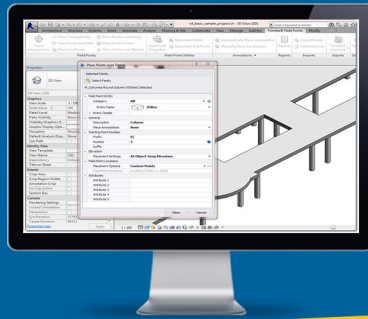
# Trimble Office Software

## Trimble Field Link Office



Trimble Field Link Office offers you a simple alternative to prepare data for the field layout work without need for a complicated CAD software. You can enter and create lines and points from a plan to prepare your data for the field layout. Import 2D or 3D CAD files to create layout points directly from the model line work. Simple export of data to your field tablet for use on the job site.

## Trimble Field Points



- Works as a plugin within CAD and Revit
- Flexible point creation: manual or automatic points
- Direct integration: Trimble Field Link
- Custom reports: document all points within a drawing
- Easy field point data import while staying within their preferred design platform, to assist with their QA/QC

## Trimble SketchUp



SketchUp is hands-down the most intuitive, not to mention powerful, easy-to-learn 3D drawing tool on the planet. If you want to be productive within a couple of hours, you've come to the right place. SketchUp isn't just for 3D models. Draw plans, elevations, details, title blocks, point-locations and other graphics with LayOut. When your model changes, so does your document. Simple.

# 3D Scanning

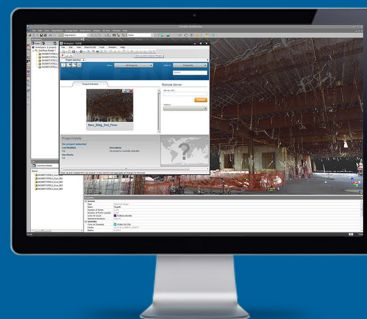
## Trimble TX6 & TX8 3D Laser Scanners



Delivering state-of-the-art speed and high precision, the Trimble TX6 and TX8 produce the high quality results needed for comprehensive worksite data collection. For applications that require the high levels of accuracy and flexibility, the TX6 and TX8 let contractors gather data more quickly from each setup while the long range capacity reduces the number

of setups needed to get the job done. An integrated HDR camera provides fast image capture to colorize scans with minimal impact on field productivity. Integrated WLAN to enable wireless remote operation from Windows, Apple and Android mobile devices.

## Trimble RealWorks and EdgeWise



Trimble RealWorks software allows you to integrate 3D point and survey data to Extract measurements, Generate deliverables and Utilize inside 3D CAD software. The software is specifically designed for point cloud processing and analysis. RealWorks provides a complete solution to

efficiently register, analyze, model and create deliverables using data from virtually any source. To try Trimble RealWorks for yourself, download the Trimble RealWorks Viewer, a complimentary Trimble utility.

Trimble EdgeWise software complements Trimble's 3D scanners and Trimble RealWorks software to provide efficient end-to-end workflows in producing accurate BIM-ready models. Form scanned pointcloud data, the software automatically detects structural elements such as pipes, conduit and beams, then precisely models them using the dimensions and geometries included in a vast library of common elements.

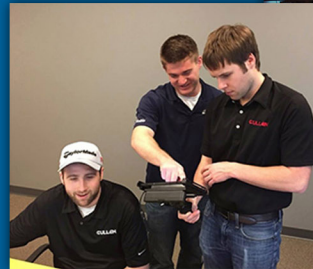


# Field Positioning Services

## Training

Our training can improve the bottom-line by increasing efficiency, confidence, and overall knowledge. Our classes are tailored to specific users and their skill levels. We also boast the ability to bring complex functionality to levels that are easily understood by anyone.

- Classroom
- On-Site
- Field Hardware
- Field & Office Software



## Rentals

Our rental fleet includes the most up-to-date Trimble equipment to meet your design and construction needs. We have a large variety of rental inventory available for fast, overnight delivery. All Trimble rental equipment is available for both long term and short term rentals. We also take time to calibrate, configure and test everything before delivery, giving you more time to work.

Requesting rental gear is easy with our website or Mobile App



## Service Department

We are committed to serving customers to the greatest extent and boasting one of the fastest turnaround times in the country. Therefore BuildingPoint Midwest & Gulf Coast are an authorized tier-3 Preferred Service Provider for all Trimble equipment. Our Client Services include a highly trained and knowledgeable service department, client support and more. With over a decade of providing clients with the highest level of support, BuildingPoint Midwest & Gulf Coast are proud to do everything they can to make sure customers are completely satisfied and set to perform the best work possible.

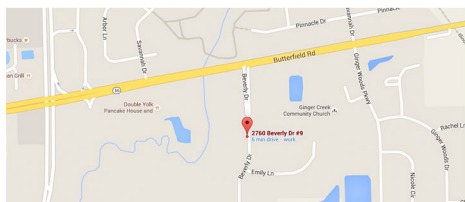


# The Experts In Design-Build-Operate Solutions

BuildingPoint Midwest & Gulf Coast, serving Illinois, Wisconsin, Michigan, Indiana, New Mexico, Colorado, Alabama, Mississippi and Louisiana are dedicated to improving productivity for the construction industry through advanced and intuitive technologies. Our portfolio of Trimble™ solutions streamlines communication and collaboration throughout the Design-Build-Operate (DBO) lifecycle to realize greater efficiency and profitability. Over the past five years, Trimble has acquired more than 30 companies in the construction industry to realize its vision for BuildingPoint. Through the adoption of our advanced software, hardware and service offerings, general contractors and construction managers, architects, structural professionals and building owners realize greater efficiency and profitability.

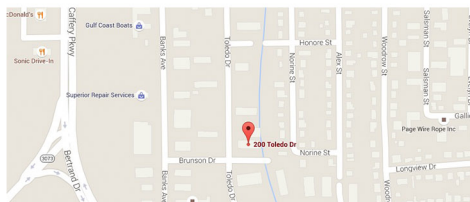
BuildingPoint is a new global network of Trimble distribution partners specialized in supporting customers with the adoption of Trimble Buildings' portfolios. BuildingPoint employs highly trained and knowledgeable specialists who are experienced in working with companies to insure increased productivity, profitability and streamline the DBO process.

## BuildingPoint: Construction Is Our Heritage



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