

Trimble 3600 Total Station Series

Highly productive, innovative 3D measuring system

Key Features and Benefits

- Easy to operate
- Extensive software choice
- Choice of User Interface
- Productive surveying system
- Integrated Surveying
- Reflectorless measurement

Whether you work as a topographic, cadastral, building or construction surveyor, the innovative Trimble 3600 Total Station series is designed to optimize your workflow and field productivity. You can easily upgrade your 3600 series with tailor-made software packages ranging from basic to professional, and covering special applications, thus further enhancing the productivity of the system.

Increased Productivity

For operation in high productivity environments, the QuickDrive, Clamp Free Operation and Endless Slow Motion deliver huge productivity gains over conventional tangent screws. The ergonomically placed Trigger Key close to the QuickDrive screw activates the measurement quickly and conveniently.

DR Measurement Mode

The innovative DR EDM system option is ideal for surveying where the target is difficult, impossible or dangerous to reach. It opens up a world of new applications — building elevation surveys, tunnel profiling, measuring to objects on private land, and safe positioning of points in active traffic. This system enables you to measure to any object within 80 m (262 ft) (standard Kodak Grey 18% reflective) and up to 150 m (492 ft) (Kodak White 90% reflective), with no need for a prism. The Coaxial Visible Spot facilitates aiming in interior applications.

Data Capture

The 3600 series of instruments have two choices of User Interface. One is the programmable DOS Open



The productive Trimble 3600 Total Station series is ideal for all types of survey work.

System Architecture, with 4Mb memory, Custom Applications, possibility to run both 3rd Party Software, e.g. TDS, and the Zeiss Elta Software. Another choice is the detachable Geodimeter® Control Unit with color-coded keys, containing a wide variety of software applications, and up to 8,000 point memory capacity, etc. The existing Geodimeter users can thus move to the new platform with no change to routine operation.

Wireless Communications with the Office

The 3600 series utilizes industry standard infrared (IR) communications in addition to conventional RS-232 communications. Using the IR communication port you can transfer files to and from certain cellular phones without the need for a cable. The cellular phone can transfer your data to or from the office without the need for you to ever leave site — ideal

when you arrive at the job site without all your data!

Integrated Surveying™

The 3600 series is the ideal complement to the Trimble GPS Total Station® 5700, providing a means of filling in detail that cannot be acquired using GPS. The two are seamlessly linked using the Trimble Control Unit, enabling you to easily switch between RTK and total station measurement. All the combined data can be processed and analyzed within the Trimble Geomatics Office™ software.

Providing all the benefits of a conventional total station, with optional DR capability, the Trimble 3600 Total Station series can make you more productive than ever before.

Trimble

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PERFORMANCE SPECIFICATIONS		3602	3603	DR
Distance Measurement				
Range	to 1 prism to 3 prisms	2500 m (1.6 miles) 5000 m (3.1 miles)	2500 m (1.6 miles) 5000 m (3.1 miles)	to Kodak Grey 18% 80 m (262 ft)* to Kodak White 90% 150 m (492 ft)*
Range to foil	(20 mm diameter) (60 mm diameter)	< 100 m (328 ft) < 250 m (820 ft)	< 100 m (328 ft) < 250 m (820 ft)	< 200 m (656 ft) < 800 m (0.5 miles)
Distance Accuracy		2 mm + 2 ppm (0.007 ft + 2 ppm)	2 mm + 2 ppm (0.007 ft + 2 ppm)	3 mm + 2 ppm (0.01 ft + 2 ppm)
Single Measurement (time)		2.0s	2.0s	3s (up to 30 m (98 ft)) + 1s/10 m (38 ft)*
Tracking (time)		0.5s	0.5s	1s (up to 30 m (98 ft)) + 1s/10 m (38 ft)*
Angle Measurement				
Angle Accuracy		2" (0.7 mgon)	3" (1.0 mgon)	
Smallest Least Unit		0.1" (0.01 mgon)	0.1" (0.01 mgon)	

* depending on the light conditions at the target

GENERAL SPECIFICATIONS			
Leveling		Dimensions	
Compensator	Dual-axis compensator	Instrument	220 x 370 x 185 mm (8.66 x 14.6 x 7.3 inch)
Working Range	± 5' (±90 mgon)	Trunnion Axis height (Trimble 3-pin or DIN)	175 mm / 196 mm (6.9 inch / 7.7 inch)
Level System	Electronic graphical display	Weight	
Centering and Positioning		without case, bat., tribrach	< 6.7 kg (14.8 lbs)
Tangents	Coaxial friction with endless fine motion	Options	
Centering System	Trimble 3-pin or DIN	1. Tracklight®*	
Telescope		2. Optical plummet / 2 x magnification	
Magnification/Aperture	30 x / 1.2°	3. Laser plummet	
Shortest Sighting	1.5 m (5 ft)	(All three are available in various combinations, ask for more information.)	
Power		* Tracklight is not available for Geodimeter Control Unit.	
Internal	NiMH battery, 6V / 3.5Ah, cir. 8h life		
Buffer Battery	Optional		
External	NiCd battery 6V / 7.0Ah, cir. 12h life		
Environmental			
Waterproofing	IPX 4	CLASS II LASER PRODUCT	
Temperature Range	-20°C to +50°C (-5°F to +122°F)	Complies with 21 CFR 1040.10	



USER INTERFACE	
Zeiss Elta Control Panel	
Keyboard	Softkeys and alphanumeric keyboard
Display	8 lines, 40 characters/line CGA graphic display (320x80 pixels). Illuminated
2nd display face	Optional
Internal System	486 DOS computer, programmable (Open System)
Data Recording	Internal, > 4 MB
On-line	IR Interface + RS-232 Slipping
RecLink	Remote Control Unit optional
Geodimeter Control Unit	
Detachable Numeric Keyboard	22 color-coded keys
Detachable Alpha-numeric Keyboard	33 color-coded keys
Display	4 line LCD, 20 characters/line. Illuminated



ORDERING INFORMATION

For further information please contact your nearest Trimble Authorized Distributor or Trimble Office. You may also visit our website at <http://www.trimble.com>



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