

KEY FEATURES

The 1 mm + 1 ppm high-precision DR EDM system offers high accuracy and reflectorless measurement capability

Flexible Trimble controller choices provide the latest in data collection technology

Trimble's Integrated Surveying solution increases flexibility on the job

Rugged housing ensures long-lasting performance in the field

Whether you work as a topographic, cadastral, building or construction surveyor, the flexible and hard-working Trimble 3600 Total Station is built to optimize your field productivity.

ACCURATE, HARD-WORKING AND RELIABLE

The Trimble® 3600 Total Station provides excellent accuracy at 1 mm + 1 ppm high-precision. In addition, the instrument offers a number of features that increase productivity over other mechanical total stations. For example, the Trimble QuickDrive function offers clamp-free operation and endless slow motions. The ergonomically placed Trigger Key close to the QuickDrive activates measurements quickly and conveniently.

The Trimble 3600 is also built rugged for the field: a Trimble 3600 Arctic model works in temperatures as low as -32°C .

DR REFLECTORLESS MEASUREMENT

The flexible DR EDM option of the Trimble 3600 is ideal for surveying where the target is difficult, impossible or dangerous to reach. The option opens up new applications, including 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) (Kodak Grey Card 18% reflective) and up to 120 m (394 ft) (Kodak Grey Card 90% reflective), with no need for a prism. The coaxial visible laser spot facilitates aiming in interior or low light applications.

INTEGRATED SURVEYING

With the latest Trimble controller onboard—for example the Trimble® CU or TSC2®—the Trimble 3600 supports Trimble's Integrated Surveying™ solution. It will seamlessly complement a Trimble GPS system: use the Trimble 3600 to collect data that cannot be measured by GPS, for example, indoor measurements or building facade measurements. The Trimble controller can be quickly switched between sensors, and you only need to be concerned with one interface and one dataset—a dataset that can be processed and analyzed in a Trimble survey office solution.

EASY DATA TRANSFER

The Trimble 3600 provides a number of ways to transfer data easily to the office. With the latest Trimble controller onboard, you can access the Internet via a cellphone modem for fast upload and download. You can even transfer data and updates via e-mail. A surveyor using a Trimble 3600 can spend more time surveying and less time traveling between field and office.



PERFORMANCE SPECIFICATIONS

Angle measurement

Accuracy (Standard deviation based on DIN 18723)	
3601	1.5" (0.46 mgon)
3602	2" (0.6 mgon)
3603 and 3603 Arctic	3" (0.9 mgon)
3605 and 3605 Arctic	5" (1.5 mgon)
Angle reading (least count)	0.1" (0.01 mgon)
Automatic level compensator	Dual-axis compensator ±5' (±90 mgon)

DISTANCE MEASUREMENT

EDM types

3601	High-precision DR Standard EDM
3602, 3603, and 3605	DR Standard EDM
3603 Arctic and 3605 Arctic	DR Standard EDM

Accuracy

Prism, high-precision DR Standard EDM ¹	
Standard measurement	±(1 mm + 1 ppm) (0.0033 ft + 1 ppm)
Fast Standard	±(3 mm + 2 ppm) (0.01 ft + 2 ppm)
Tracking	±(5 mm + 2 ppm) (0.016 ft + 2 ppm)
Prism, DR Standard EDM	
Standard measurement	±(2 mm + 2 ppm) (0.007 ft + 2 ppm)
Fast Standard	±(3 mm + 2 ppm) (0.01 ft + 2 ppm)
Tracking	±(5 mm + 2 ppm) (0.016 ft + 2 ppm)
Reflective foil, high-precision DR Standard EDM and DR Standard EDM	
Standard measurement	±(3 mm + 2 ppm) (0.01 ft + 2 ppm)
Fast Standard	±(3 mm + 2 ppm) (0.01 ft + 2 ppm)
Tracking	±(5 mm + 2 ppm) (0.016 ft + 2 ppm)
Direct Reflex mode, high-precision DR Standard EDM and DR Standard EDM	
Standard measurement	±(3 mm + 2 ppm) (0.01 ft + 2 ppm)
Fast Standard	±(5 mm + 2 ppm) (0.016 ft + 2 ppm)
Tracking	±(10 mm + 2 ppm) (0.032 ft + 2 ppm)
Shortest possible range, high-precision DR Standard EDM and DR Standard EDM	
To prism and Direct Reflex	1.5 m (4.9 ft) in Normal mode
To reflective foil	2.5 m (8.2 ft)

Measuring time

Prism mode, high-precision DR Standard EDM and DR Standard EDM	
Standard measurement	<2 s
Fast Standard	<1.8 s
Tracking	<0.4 s
Direct Reflex mode, high-precision DR Standard EDM and DR Standard EDM	
Standard measurement	3 s up to 30 m + 1 s/10 m
Fast Standard	2 s up to 30 m + 1 s/10 m
Tracking	0.8 s up to 30 m + 1 s/10 m
Range (at standard clear ²), high-precision DR Standard EDM ¹	
1 prism	3000 m (9,840 ft)
1 prism Long Range mode	1000 m–5000 m (3,280 ft–16,400 ft)
3 prisms	5000 m (16,400 ft)
3 prisms Long Range mode	1000 m–7000 m (3,280 ft–22,960 ft)
Range (at standard clear ²), DR Standard EDM	
1 prism	3000 m (9,840 ft)
1 prism Long Range mode	1000 m–5000 m (3,280 ft–16,400 ft)
3 prisms	5000 m (16,400 ft)
3 prisms Long Range mode	1000 m–7500 m (3,280 ft–24,600 ft)
Range (at standard clear ²), high-precision DR Standard EDM and DR Standard EDM	
Reflective foil 20 mm Normal mode	100 m (328 ft)
Reflective foil 20 mm Long Range mode	200 m (656 ft)
Reflective foil 60 mm Normal mode	250 m (820 ft)
Reflective foil 60 mm Long Range mode	800 m (2,620 ft)
Range (at standard clear ²) Direct Reflex measurement on Kodak Gray Card:	
Cat.No. E1527795, high-precision	
DR Standard EDM and DR Standard EDM	
Kodak Gray (18% reflective)	80 m (230 ft)
Kodak Gray (90% reflective)	120 m (328 ft)

GENERAL SPECIFICATIONS

Light source

Laser diode 660 nm	Laser class 1 on prism
	Laser class 2 in Direct Reflex mode
Beam divergence	0.4 mrad x 0.8 mrad
Atmospheric correction	Temperature sensor in instrument
Leveling	Circular level in tribrach and instrument 8/2 mm
Clamps and slow motion drives	Co-axial, friction clamp with endless slow motion
Centering	
Centering system	Trimble 3-pin
Optical plummet	Optional
Magnification	2.4 x
Shortest focusing range	0.5 m–infinity
Laser plummet	Optional
Telescope	
Magnification	30 x
Aperture	40 mm (1.57 in)
Shortest focusing range	1.5 m (4.92 ft)
Field of view at 100 m	1.2°, 2.2 m/100 m (7.21 ft/328 ft)
Illuminated crosshair	Yes
Tracklight®	Standard
Operating temperature	
3600	–20 °C to +50 °C (–5 °F to +122 °F)
3600 Arctic	–32 °C to +50 °C (–26 °F to +122 °F)
Environmental	IP54
Power supply	
Internal battery	NiMH battery pack, 6 V, 3.5 Ah, rechargeable
	Charging time on empty: 1.5 hours
	Operating time: approx. 8.5 hours
External battery	NiCd battery pack, 6 V, 7.0 Ah, rechargeable
	Charging time on empty: 3.5 hours
	Operating time: approx. 12 hours
Weight	<6.7 kg (14.8 lb)
Dimensions	
Instrument	222 mm x 370 mm x 185 mm (8.7 in x 14.6 in x 7.3 in)
Trunnion axis height – 3-pin	196 mm (7.7 in)

CONTROL UNIT FEATURES

Keyboard

Trimble CU	Attachable Trimble CU controller
Geodimeter CU	Attachable Geodimeter Control Unit: alphanumeric, or alphanumeric Arctic

Display screen

Trimble CU	Color, illuminated TFT, daylight readable touch screen displayed at 320 x 240 pixels (QVGA) CCFL
Geodimeter CU	33 keys, 4 line LCD, 20 characters/line, illuminated

Data recording

Trimble CU	64 MB SDRAM, 1 GB internal non-volatile storage memory
Geodimeter CU	Internal memory up to 8,000 points

Data transfer

Trimble CU	Data communication trough docking station USB, RS-232 and Bluetooth®
	External removable memory USB memory device or CompactFlash card reader (optional)
Geodimeter CU	Two-way RS-232

Software

Trimble CU	Trimble Survey Controller™ or Survey Pro ³
Geodimeter CU	Extensive library of powerful programs for data collection and field calculations

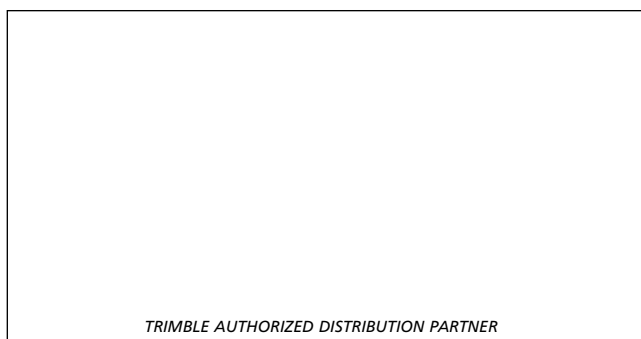


- Temperature range of +5°C to +45°C (41°F to 113°F)
- Standard clear: No haze, overcast or moderate sunlight with very light heat shimmer. Range and accuracy are dependent on atmospheric and ambient light conditions.
- Only available in North America.

Specifications subject to change without notice.



© 2001–2009, Trimble Navigation Limited. All rights reserved. Trimble, the Globe & Triangle logo, and TSC2 are trademarks of Trimble Navigation Limited registered in the United States and in other countries. Integrated Surveying, Tracklight, and Trimble Survey Controller are trademarks of Trimble Navigation Limited. The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Trimble Navigation Limited is under license. All other trademarks are the property of their respective owners. PN 12414E (04/09)



NORTH AMERICA

Trimble Engineering &
Construction Group
5475 Kellenburger Road
Dayton, Ohio 45424-1099 • USA
800-538-7800 (Toll Free)
+1-937-245-5154 Phone
+1-937-233-9441 Fax

EUROPE

Trimble GmbH
Am Prime Parc 11
65479 Raunheim • GERMANY
+49-6142-2100-0 Phone
+49-6142-2100-550 Fax

ASIA-PACIFIC

Trimble Navigation
Singapore Pty Limited
80 Marine Parade Road
#22-06, Parkway Parade
Singapore 449269 • SINGAPORE
+65-6348-2212 Phone
+65-6348-2232 Fax



www.trimble.com