Trimble 5605 DR200+ Total Station

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Precise Reflectorless Site Measurement

The Trimble® 5605 DR200+ Direct Reflex Total Station series gives you access to the best and most productive measuring methods available for every measuring situation. The Direct Reflect (DR) capability opens up a new world of measurement applications. You can now measure objects that were previously difficult or impossible to reach, as easily as those measured with a prism.

The 5605 DR200+ is ideal for measuring stockpiles, excavations, cuttings, mine high walls, in addition to visible but inaccessible property boundaries without gaining land access. You can also measure overhead cables, tunnels, bridges, and elevations quickly, safely and easily even in live traffic situations.

Accurate long-range measurement

The long-range 5605 DR200+ total station allows you to measure up to 600 m (1,968 ft) to a 90% reflective Kodak Gray Card and 200 m (656 ft) to an 18% reflective Kodak Gray Card. That's 3.3 times further than standard reflectorless total stations. And the range using a single prism is 5,500 m (18,040 ft) with an accuracy of \pm (3 mm +2 ppm).

Unique "Time-of-Flight" pulse measurement

The DR200+ uses the "time-of-flight" measurement technique based on the pulse measurement principle. The 5605 instrument measures the time for a very short transmitted pulse to travel to the target and back.

Increase productivity with Servo, Autolock and Robotic options Servo gives you a 30% increase in productivity

The Trimble 5605 DR200+ total station offers four-speed servo operation to provide variable speed, faster, smoother and more accurate aiming. Servo combined with DR gives you automated measurements and additional upgrade opportunities to increase your productivity.



Upgrade to Autolock and increase productivity by 50%

Autolock® technology enables semi-robotic operation, with measuring and recording performed at the total station. The Trimble 5605 DR200+ seeks out the target, locks to it, and tracks it during movement between points. Autolock upgrade features include:

- Eliminates fine adjustment, focusing, and problems working in the dark
- Unique active targets guarantee 100% accuracy in locating the right target. In most cases, you can stake out or gather measurement data as fast as the rod man can move.

Upgrade to Robotic and increase productivity by 80%

Robotic operation offers the same advantages as Autolock. Additional features include:

- Move efficiently during stakeout and/or work with one less person.
- Increases productivity and reduces personnel costs.
- Provides higher quality measurements since all the control initiation and registration take place at the measuring point where you can quickly identify any errors or discrepancies.

Combine Robotic with Direct Reflex for even higher productivity

Combine the two methods for the ultimate oneperson measurement system. This combination will increase your flexibility to tackle any application.



Stockpiles

Cuttings

Excavations

Mine high walls

Overhead cables

and corners

Tunnels

Bridges

Elevations

Visible property boundaries

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Superior accuracy and productivity

PERFORMANCE SPECIFICATIONS	GENERAL SPECIFICATIONS
Angle measurement	Light source
Accuracy (Standard deviation based on DIN 18723) 5" (1.5 mgon)	Laser class 1
Angle reading (least count)	Laser pointer eccentric (optional) Laser class 2
Horizontal & vertical	Beam divergence
Standard measurement	Horizontal
Fast Standard	Vertical
Tracking	General
Automatic level compensatorDual-axis compensator ±6" (±100 mgon)	Atmospheric correction60 to 195 ppm continuously
Distance measurement	Leveling
Accuracy (standard deviation)	Circular level in tribrach
Direct Reflex	Electronic 2-axis level in the
Standard measurement \pm (3 mm + 2 ppm) \pm (0.01 ft + 2 ppm)	LC-display with a resolution of 6" (2 mgon)
Fast Standard±(5 mm + 2 ppm) ±(0.016 ft + 2 ppm)	Clamps and slow motions Servo-drive. Endless fine adjustment
Tracking±(3 mm + 2 ppm) ±(0.032 ft + 2 ppm)	Centering
Shortest possible range	Centering system
Direct Reflex	Optical plummet Optical plummet in tribrach
Reflective foil	Magnification
Measuring time	Shortest focusing distance
Prism mode	Telescope
Standard measurement	Magnification
Fast Standard	Aperture
Tracking	Field of view at 100 m (328 ft) 2.6 m (8.5 ft)
DR mode	Shortest focusing distance 1.7 m (5.58 ft) to infinity
Standard measurement	Illuminated crosshair Variable (15 steps)
Fast Standard	TracklightOptional (Servo only)
Tracking	Standard (Autolock and Robotic)
Range Direct Reflex typical measurement	Operating temperature20 °C to +50 °C (-5 °F to +122 °F)
Kodak Gray Card (18% reflective)*>200 m (656 ft)	Power Supply
Kodak Gray Card (90% reflective)*>600 m (1,968 ft)	Internal battery Rechargeable NiMH battery 12 V, 1.8 Ah
Concrete	Operating time approx. 3 h (Servo only)
Wood construction	External battery External rechargeable NiMH batteries 12 V, 3.8-11.4 Ah
Metal construction	Operating time approx. 11 h Autolock, 9 h Robotic (11.4 Ah)
Light rock	Weight
Dark rock	Instrument with ACU controller
Range using reflective foil in Direct Reflex Mode	Tribrach
Reflective foil 20 mm	Internal battery
Reflective foil 60 mm	Instrument for Robotic measurement
	(incl. Tracker, and built in radio)
* Kodak Gray Card, Catalog number E1527795. Specifications subject to change without notice.	Trunnion axis height
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YOUR LOCAL TRIMBLE OFFICE OR REPRESENTATIVE

NORTH AMERICA

Trimble Construction Division 5475 Kellenburger Road • Dayton, Ohio 45424 • 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 \bullet +49-6142-2100-550 Fax

ASIA-PACIFIC

Trimble Navigation Australia PTY Limited
Level 1/120 Wickham Street • Fortitude Valley, QLD 4006 • AUSTRALIA
+61-7-3216-0044 Phone • +61-7-3216-0088 Fax





