

TS305/TS315



BUILT FOR THE JOB SITE

- Fast
- Flexible
- Easy To Use
- Rugged



Take Control of Your Layout

Fast

Today's competitive construction environment means that you need to meet deadlines and operate under tight cost controls. The Spectra Precision Optical TS305 and TS315 Total Stations from Trimble are designed to put you in control of your construction layout. And when compared to traditional methods, you have the ability to measure and position faster than ever before, allowing you to get the job done faster and under budget!

Flexible

With the ability to do layout from the building axis by using control hubs located anywhere on the job site, you now have the power to get the job done. Our new Direct Reflex (DR) distance measuring capability provides you with one-person operation without a prism.

And with straightforward on-board software, you can use the Construction Total Stations for a wide variety of applications, including layout and as-built checks.

Easy-to-use

The TS305 and TS315 are easy-to-learn and simple-to-use. The Construction Total Stations have software developed to meet your needs on the construction site, so with a little training you will soon realize that you don't need to be a surveyor to use one. And if you want to use the more advanced features, the self-explanatory menu makes operation a snap.

Rugged

The TS305 and TS315 feature a water-resistant and rugged body, and are capable of operating all day on a single internal battery.

The Mini prism and pole are designed for use on the construction site, and fit neatly inside the carry case.



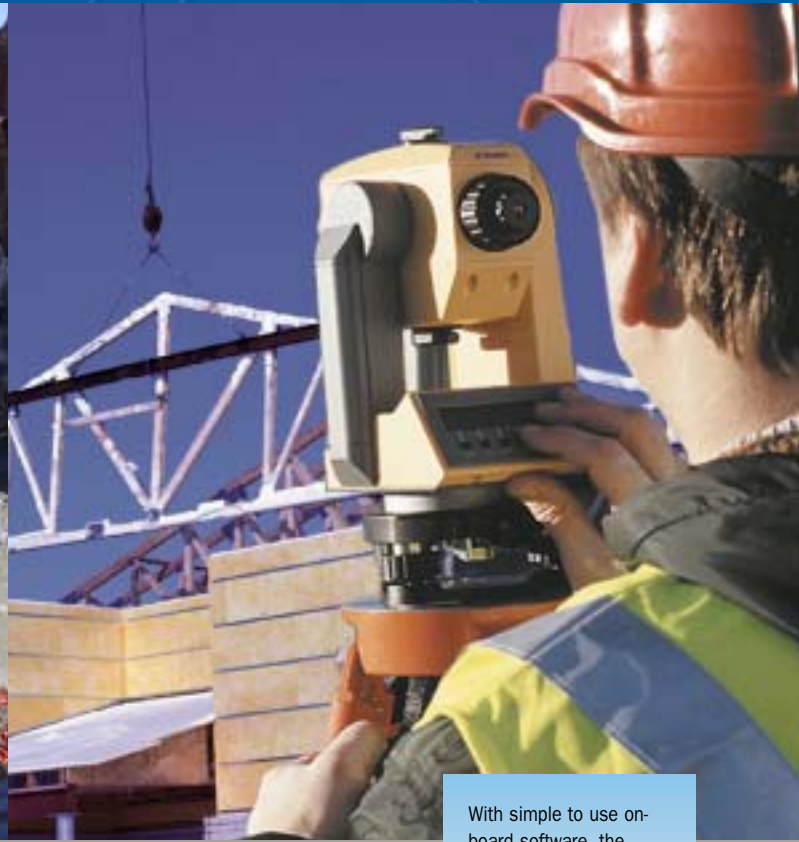
Using the DR distance measurement, you can now position with or without a prism – making easy jobs faster, and making your difficult jobs even easier.



With everything fitting into one neat carry case, you can be sure nothing is accidentally left on site.



Using the TS305 and TS315, you can now do layout from control hubs, align along a building line, and do a 90° layout.



With simple to use on-board software, the TS305 and TS315 make as-built checks easier than ever!

Quick access to DR direct reflex distance measurement, for measurement with or without prisms.

A user friendly Application Menu gives you fast access to the functions you need:

- Stakeout Point to Line
- Station and Offset
- Object Height
- Vertical Plane
- Coordinate Points
- Coordinate Stakeout
- Free Station



One Touch Measure makes measurement faster than ever before!

A visible red dot Laser Pointer ensures that you are measuring to the correct point

Fast measurements

Simple-to-use software functions and advanced distance measurement technology allow you to get the job done faster.

Direct Reflex (DR) EDM

Use DR to measure inaccessible points up to 100 meters.

Low power consumption

All-day operation on a single battery.

Clear and easy

Functions are clearly marked and easy to understand.





TS315 with Internal Memory

The Spectra Precision Optical TS315 Total Station has an internal memory which gives you access to more advanced functionality.

The construction total station comes complete with Trimble's Terramodel® Field Data Module. The software allows you to import your building design data, as well as prepare and transfer the stakeout data directly to the TS315 for use on the construction site.

The TS315 alphanumeric feature coding function allows you to store field-coded coordinate points that can be downloaded and presented as a topographic map — ideal for site preparation and as-built surveys.



PERFORMANCE SPECIFICATIONS – TS305 / TS315

Angle measurement

Accuracy (standard deviation based on DIN 18723)	5" (1.5 mgon)
Angle reading (least count)	0.1" (0.01 mgon)
Automatic level compensator	Single-Axis compensator ±5' (±90 mgon)

Distance Measurement accuracy

Prism	
Standard measurement	2mm + 2ppm (0.007 ft + 2ppm)
Tracking	5mm + 2ppm (0.016 ft + 2ppm)
Direct Reflex (DR) Mode	
Standard measurement	3mm + 2ppm (0.01 ft + 2ppm)
Tracking	10mm + 2ppm (0.032 ft + 2ppm)
Shortest possible range to prism:	1.5m (4.9 ft) [not allowed in high power mode]

Measuring time

Prism	
Standard measurement	<2.0s
Tracking	1.2s
Direct Reflex (DR) Mode	
Standard measurement	3s up to 30m + 1s/10m
Tracking	1.6s

Range (at standard clear*)

<i>Measurement to prism</i>	
1 Prism (50mm dia.)	3000m (1.9 miles)
1 Prism Long Range Mode	1000m - 5000m (0.6 miles - 3.1 miles)
3 Prisms	5000m (3.1 miles)
3 Prisms Long Range Mode	1000m - 7500m (0.6 miles - 4.7 miles)

Range Direct Reflex measurement (typically)

Kodak Gray (18% reflective)	70m (230 ft)
Kodak Gray (90% reflective)	100m (328 ft)

* Standard clear: No haze, overcast or moderate sunlight with very light heat shimmer.
Range and accuracy are dependent on atmospheric conditions and background radiation

GENERAL SPECIFICATIONS

Atmospheric correction	Manual setting pressure and temperature
Plummet	Optional Optical 2x or Laser
Telescope	
Magnification	26x
Aperture	40mm (9.51 inch)
Focusing range	Shortest focussing distance 1.5m (4.92 ft)
Illuminated crosshair	Yes
Display screen	Automatic contrast adjustment, display illumination 4 lines with 21 characters each, graphic capabilities (128 x 32 pixels)
Operating temperature	-20°C to +50°C (-5°F to +122°F)
Internal battery	NiMH battery pack, 6V / 1.3 Ah, rechargeable; 2 hours charging time with LG20. Operating time: Approx 1000 angle and distance measurements
Weight	
Instrument incl battery, charger, mini prism and pole	11.3 kg / 25 lb
Class I and II laser product	

DATA TRANSFER AND RECORDING

Memory capacity (TS315 only)	Recording: internal data memory, storage capacity – 1900 data lines
Data input/output:	External recording and data transfer via RS-232 C / V24 interface Data record formats selectable: For M5, Rec 500, R4 and R5

Spectra Precision Optical from Trimble.

Construction Solutions To Build Your Competitive Advantage.

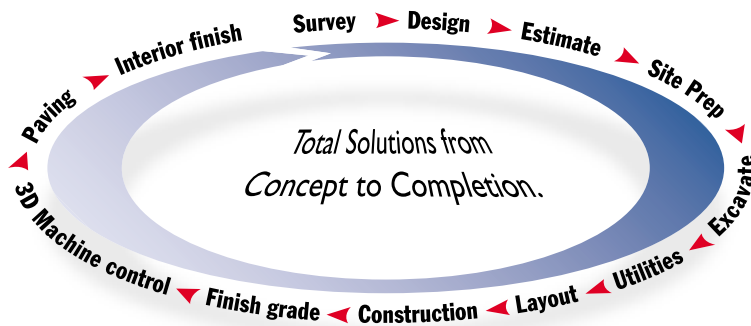
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