

Introducing the DT-300 Digital Theodolite

New Durable, Precise Layout Tool!

Topcon has taken the trusted, dependable DT-200 platform and built the DT-300, which boasts several modern enhancements customers have been waiting for!

The DT-300 is a lightweight compact alignment and angular measurement device which uniquely boasts up to 30 working days of power, the highest waterproof and dust protection, and convenient high precision laser guidance.

Key Features

- High-accuracy (5", 7" and 9" models) measurements
- Ultra-rugged IP66 dust and heavy rain protection
- Compact and light weight
- Long-lasting Li-ion or AA battery life
 - Powered by the Topcon BDC Li-Ion platform!
- Easy-to-use LCD backlit display
 - NEW larger display
- Precise laser pointer guidance
- Embedded tilt sensor for 5" and 7" models



Ordering Information

PART NUMBER	DESC	LIST PRICE
1034419-04	DT-305/PS	\$ 4,400.00
1034419-06	DT-307/PS	\$ 3,670.00
1034419-08	DT-309G/PS	\$ 2,990.00
1034419-05	DT-305L/PS	\$ 5,240.00
1034419-07	DT-307L/PS	\$ 4,400.00
1034419-09	DT-309LG/PS	\$ 3,920.00

Specifications

Telescope	Length	149mm
		152mm (L models)
	Aperture	45mm
	Magnification	30X
	Image	Erect
	Field of view	1° 30' (26m/1,000m)
	Resolving power	2.5"
	Minimum focus	0.9m
1.0m(L)		

	Stadia ratio	100
	Stadia constant	0
Angle measurement	Method	Rotary absolute encoder
	Detecting	Horizontal: 1 sides
		Vertical: 1 sides
	Minimum Reading	5" Model: 1" (0.0002 gon/0.01 mil)/5" (0.001 gon/0.1 mil) (selectable)
		7" Model: 5" (0.002 gon/0.05 mil)/10" (0.005 gon/0.1 mil) (selectable)
9" Model: 10" (0.002 gon/0.05 mil)/20" (0.005 gon/0.1 mil) (selectable)		
Accuracy*1	5", 7", 9"	
Display	Unit	2 sides for 5" and 7" model
		1 side for 9" model
Tilt angle compensation (5" and 7" models)	Type	Automatic vertical compensator
	Range of compensation	$\pm 3'$ (± 0.0555 gon)
	Compensation constant	Can be changed (compensation is done at the same time with vertical angle 0 point)
Optical plummet	Magnification	3X
	Minimum focus	0.5 m
Sensitivity of levels	Circular level	10' /2mm
	Plate level	30" / 2mm
Power Supply	Power source	4 AA dry cells or BDC71 (Optional accessory)
Operating Time (4 AA alkaline batteries)	Theodolite only	about 230 hours
	Laser only	about 80 hours (L Models)
	Theodolite and laser	about 55 hours (L Models)
Operating time (BDC71)	Theodolite only	about 300 hours
	Laser only	about 100 hours (L models)
	Theodolite and laser	about 70 hours (L models)
Laser-pointer (L Models)	Signal source	Red laser diode (633nm)
	Maximum output	0.6mW
	Laser Class	Class 2
	Laser beam range	50m (in daylight)
	Ingress Protection	Dust and water resistance IP66 (JIS C 0920 : 2003)
	Operating temperature range	-20 to 50 °C (-4 to 122 °F)*2
	Storage	

Hardware	temperature range	-30 to 60°C (-22 to 140°F) (no condensation)
	Size (with handle)	5" and 7" Models: 173 (W) X 181 (D) X 318 (H) mm
		9" Models: 173 (W) X 174 (D) X 318 (H) mm
	Weight (with batteries and battery holder)	5" and 7" Models: 4.1 kg (9.04 lb)
9" Models: 4.0 kg (8.82 lb)		

*1: ISO 17123-3: 2001

*2: No Direct sunlight at temperatures of 50°C (122°F)

Please contact your RSM for more details on this product.