

# DT-300 series

**Digital Theodolite** 





## Brand new design with laser pointer for efficient alignment setting work!

Lightweight, compact angular measurement with highprecision laser guidance and up to 30 workdays of power

- Long-lasting Li-ion or AA battery life with up to 30 workdays<sup>12</sup> of power
- Convenient high-precision laser guidance
- Brand new product design utilizing Topcon premium quality total station components
- Embedded tilt sensor in 5" model
- Ultra-rugged IP66 dust and heavy rain protection

<sup>\*1</sup> As of May, 2020 checked with Topcon as theodolite \*2 In case of measuring angle with DT-309G/DT-309GL for 8 hours per day



Model		DT-305	DT-305L	DT-309G	DT-309GL	
Telescope	Length	149 mm	152 mm	149 mm	152 mm	
	Aperture		45 mm		1 112 11111	
	Magnification	30X				
	Image	Frect				
	Field of view	1°30′ (26 m/1,000 m)				
	Resolving power	2.5"				
	Minimum focus	0.9 m	0.9 m 1.0 m 0.9 m 1.0 m			
	Stadia ratio		100			
	Stadia constant	0				
Angle measurement	Method	Rotary absolute encoder				
		Horizontal: 1 sides				
	Detecting	Vertical: 1 sides				
		1" (0.0002 gon/0.01 mil)/ 10" (0.002 gon/0.05 mil)/				
	Minimum display	5" (0.001 gon/0.1 mil) (selectable)		20" (0.005 gon/0.1 mil) (selectable)		
	Accuracy*1	(**** 6* /	5" 9"			
Display	Unit	2 sides		1 sides		
Tilt angle compensation	Туре	Automatic ve	ertical compensator	_		
	Range of compensation		0.0555 gon)	_		
	Compensation constant		ation is done at the same time with angle 0 point)			
Optical plummet	Magnification		3X			
	Minimum focus	0.5 m				
Sensitivity of levels	Circular level	10' /2 mm				
	Plate level	30"/ 2 mm				
Temperature	Operating temperature range	-20 to 50°C (-4 to 122°F)*2				
	Storage temperature range	-30 to 60°C (-22 to 140°F) (no condensation)				
Environmental durability	Dust and water protection	IP66 (IEC 60529: 2001)				
Power Supply (Standard)	Power source	4 AA alkaline batteries				
Working duration at 20°C (Standard)	Theodolite only	about 230 hours about 250 hours				
	Laser only	_	about 80 hours	_	about 80 hours	
	Theodolite and laser	_	about 55 hours	_	about 55 hours	
Power Supply (Option)	Power source	BDC71 (Optional accessory)				
Working duration at 20°C (Option)	Theodolite only	about 300 hours about 350 hours				
	Laser only	_	about 100 hours	-	about 100 hours	
	Theodolite and laser	_	about 70 hours	_	about 70 hours	
Tribrach	Туре	Detachable		Fixing		
Laser-pointer	Signal source	_	Red laser diode (633 nm)	_	Red laser diode (633 nm	
	Maximum output	_	0.6 mW	_	0.6 mW	
	Laser Class	_	Class 2	_	Class 2	
	Laser beam range		50 m (in daylight)		50 m (in daylight)	
Others	Size (with handle)	173 (D) X 181 (W) X 318 (H) mm (Display on both sides)		173 (D) X 174 (W) X 318 (H) mm (Display on one side)		
	Weight	4.1 kg (9.04 lb) (with batteries and battery holder)		4.0 kg (8.82 lb) (with batteries and battery holder)		

#### **Standard components**

- Main unit DB-80 Battery holder Lens cap Tool pouch Precision screwdriver Lens brush Hexagonal wrench (1.3 mm/2 mm/2.5 mm) Adjusting pin Wiping cloth
- Quick start manual Carrying case Carrying strap

#### **Optional accessories**

• Plumb bob • Model 13 Diagonal eyepiece • BDC71 Battery • CDC77 Charger



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