DT-300









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^{*2} 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

*1 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

DT-300 series

SPECIFICATIONS

Model		DT-305	DT-305L	DT-309G	DT-309GL	
Telescope	Length	149 mm	152 mm	149 mm	152 mm	
	Aperture	45 mm				
	Magnification	30X				
	Image	Erect				
	Field of view	1°30′ (26 m/1,000 m)				
	Resolving power	2.5"				
	Minimum focus	0.9 m	1.0 m	0.9 m	1.0 m	
	Stadia ratio		10			
	Stadia constant	0				
Angle measurement	Method	Rotary absolute encoder				
	Method	Horizontal: 1 sides				
	Detecting	Vertical: 1 sides				
					an/0.05 mil)/	
	Minimum display	5" (0.001 gon/0.1 mil) (selectable)		10" (0.002 gon/0.05 mil)/ 20" (0.005 gon/0.1 mil) (selectable)		
	Accuracy ^{*1}	5"		9"		
Display	Unit	2 sides		1 sides		
ызыал	Туре	Automatic vertical compensator				
Tilt angle compensation	Range of compensation	$\pm 3'$ (± 0.0555 gon)				
	Range of compensation	± 3 (± 0.055 g01) Can be changed (compensation is done at the same time with				
	Compensation constant	vertical 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	Deta	chable	Fix		
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)		
	14/ ¹ 1/	4.1 kg (9.04 lb)		4.0 kg (8.82 lb)		
	Weight	(with batteries and battery holder)		(with batteries and battery holder)		

*1: ISO 17123-3: 2001 *2: No direct sunlight for using high temperatures of 50°C (122 °F).

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



TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, Japan www.topcon.co.jp

<Contact to> Topcon Singapore Positioning Pte. Ltd. 1 Jalan Kilang Timor, #09-01 Pacific Tech Centre, Singapore 159303 Phone: (+65)6778-3456 Fax: (+65)6773-6550 Email: topcon.sg@topcon.com Web : www.topcon.com.sg Specifications may vary by region and are subject to change without notice.
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