

# DT-300K



## DT-300K series

Digital Theodolite



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

Lightweight, compact angular measurement with high-precision laser guidance and up to 30 workdays of power

- Long-lasting Li-ion or AA battery life with up to 30 workdays<sup>\*2</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

\*1 As of May, 2020 checked with Topcon as theodolite

\*2 In case of measuring angle with DT-309GK/DT-309GLK for 8 hours per day

## SPECIFICATIONS

Model		DT-305K	DT-305LK	DT-309GK	DT-309GLK
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	100			
	Stadia constant	0			
	Angle measurement	Method	Rotary absolute encoder		
Detecting		Horizontal: 1 sides Vertical: 1 sides			
Minimum display		1" (0.0002 gon/0.01 mil)/ 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	
	Type	Automatic vertical compensator		-	
Tilt angle compensation	Range of compensation	±3' (±0.0555 gon)		-	
	Compensation constant	Can be changed (compensation is done at the same time with vertical angle 0 point)		-	
	Magnification	3X			
Optical plummet	Minimum focus	0.5 m			
	Circular level	10' / 2 mm			
Sensitivity of levels	Plate level	30" / 2 mm			
	Operating temperature range	-20 to 50°C (-4 to 122°F)*2			
Temperature	Storage temperature range	-30 to 60°C (-22 to 140°F) (no condensation)			
	Dust and water protection	IP66 (IEC 60529: 2001)			
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	Type	Detachable		Fixing	
	Signal source	-	Red laser diode (633 nm)	-	Red laser diode (633 nm)
Laser-pointer	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)
	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)	
Others	Weight	4.1 kg (9.04 lb) (with batteries and battery holder)		4.0 kg (8.82 lb) (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



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