

DT50 series

Digital Theodolite

SPECIFICATIONS

Model		DT550	DT550L	DT950G	DT950GL
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	
Tilt angle compensation	Туре	Automatic vertical compensator		_	
	Range of compensation	±3' (±0.0555 gon) —		_	
	Compensation constant	Can be changed (compensation is done at the same time with vertical angle 0 point)		_	
0.15.1.1	Magnification	3X			
Optical plummet	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 3	00 hours	about 3	50 hours
	Laser only	_	about 100 hours	-	about 100 hours
	Theodolite and laser	_	about 70 hours	-	about 70 hours
Tribrach	Туре	Deta	chable	Fix	ing
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)	

^{*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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