



## **DT50** Series

## Digital Theodolite

Model		DT-550	DT550L	DT-950G	DT-950GL		
Telescope	Length	149mm	152mm	149mm	152mm		
	Aperture	45mm					
	Magnification	30X					
	Image	Erect					
	Field of view	1°30′ (26m/1,000m)					
	Resolving power	2.5"					
	Minimum focus	0.9m	1.0m	0.9m	1.0m		
	Stadia ratio		10	100			
	Stadia constant	0					
	Method	Rotary absolute encoder					
	Detecting	Horizontal: 1 sides					
Anala maaaaaaa		Vertical: 1 sides					
Angle measurement	Minimum Reading	1" (0.0002 g 5" (0.001 gon/0.	on/0.01 mil)/ I mil) (selectable)	10" (0.002 gon/0.05 mil)/ 20" (0.005 gon/0.1 mil) (selectable)			
	Accuracy*1	\ 0 /	5"	9"			
Display	Unit	2 sides 1 sides			des		
. ,	Туре	Automatic verti	ic vertical compensator —				
TT: I	Range of compensation	±3' (±0.0555 gon) —			_		
Tilt angle compensation	Compensation constant		n is done at the same time with gle 0 point)	_			
Optical plummet	Magnification	3X					
	Minimum focus	0.5 m					
	Circular level	10' /2mm					
Sensitivity of levels	Plate level	30"/ 2mm					
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 resistance	IP66 (JIS C 0920 : 2003)					
Power Supply (Standard)	Power source	4 AA alkaline batteries					
	Theodolite only	about 2	30 hours	about 250 hours			
Working duration (Standard)	Laser only	_	about 80 hours	_	about 80 hours		
	Theodolite and laser	_	about 55 hours	_	about 55 hours		
Power Supply (Option)	Power source		BDC71 (Optio	onal accessory)			
	Theodolite only	about 3	00 hours	about 3	50 hours		
Working duration (Option)	Laser only	_	about 100 hours	_	about 100 hours		
0 (1 /	Theodolite and laser	_	about 70 hours	_	about 70 hours		
Tribrach	Туре	Deta	chable	Fix	ing		
Laser-pointer	Signal source	_	Red laser diode (633nm)	_	Red laser diode (633nm)		
	Maximum output	_	0.6mW	_	0.6mW		
	Laser Class	_	Class 2	-	Class 2		
	Laser beam range	_	50m (in daylight)	_	50m (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)			

<sup>\*1:</sup> ISO 17123-3: 2001 \*2: No direct sunlight for using high temperatures of 50°C (-22 °F).

## **Standard components**

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

## **Optional accessories**

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



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