

Digital Theodolites DT50 Series



SOKKIΛ

Digital Theodolites DT50 Series



All the Theodolite you'll need

- High-accuracy measurements (5", 7" and 9" models)
- Ultra-rugged IP66 dust and heavy rain protection
- Compact and lightweight
- Long-lasting Li-ion or AA battery life
- Easy-to-use LCD backlit display(s)
- Precise laser pointer guidance
- Embedded tilt sensor for 5" and 7" models

Make your next job a snap

With the DT50 Series, you'll be up and working fast, thanks to its simple interface and large, easy-to-see backlit LCD. There's an optical plummet that makes set up over a control point easy, and a tilt sensor that provides ±3-minute angle correction. The DT50 Series features two magnification choices of 26x and 30x, a super-short 3 ft. minimum focus distance for those tight areas, and angle accuracies of 5, 7, and 9 arc seconds.

Laser pointer

Add a whole new dimension of accuracy and confidence to your alignment jobs with our unique DT50L Series featuring a red Class II laser beam. Use it anywhere on your site and see clearly in direct sunlight up to 165 ft. Now you can quickly and accurately place anchor bolts at regular intervals on a line, set an angle, and use the beam to verify your tape measure is properly aligned for the next stake or "sight in" footers, frames, and tilt-up walls.

The ultimate in continuous operation

The DT50/DT50L Series provides up to 30 workdays of operation in Angle Measurement Mode on 4 AA or optional Li-ion batteries, better than any other model. When it is time to change batteries, it's as easy as snapping out the old ones and snapping in the new ones.

Durability, accuracy, and value

The DT50 Series represents the highest accuracy and value in digital theodolite technology. Our 80 plus years of experience manufacturing the world's most precise optical survey instruments shines through in the precision, durability, and advanced technology found in each DT50.

Water and dustproof

- IP66 rating
- Treated telescope to prevent moisture and eliminate lens fogging
- Rainproof
- Dustproof

Laser accurate (L Series Only)

- Beam is emitted directly from the lens
- Bright red laser
- Pin-point accuracy

Simple Operation

- Large, high-contrast, backlit LCD's
- Simple five-button interface panel
- Horizontal and vertical angles
- Slope by percent on angle

Long-lasting power options

- Up to 30 workdays of operation
- Topcon BDC Li-ion battery
- Or traditional AA batteries







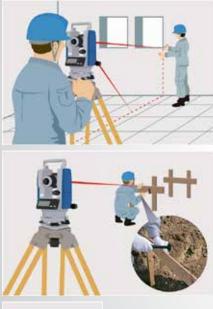


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DT50 Series

Kit Components

- Instrument
- Plumb bob (optional)
- Tool kit
- Lint free lens cloth
- Hard shell carry case





Specifications

MODEL	Digital Theodolites DT50	Laser Digital Theodolites DT50L
Telescope		
Length	149 mm	152 mm
Aperture	45 mm	
Magnification	30x	
Image	Ere	ect
Field of view	1°30' (26 m/1,000 m)	
Resolving power	2.	-
Minimum focus	0.9 m	1.0 m
Stadia ratio	10	
Stadia constant	()
Angle Measurement		
Method		ute encoder
Detecting	Horizontal: 1 side Vertical: 1 side	
Minimum Reading	5" Model: 1" (0.0002 gon/0.01 mil)/5" (0.001 gon/0.1 mil) (selectable) 7" Model: 5" (0.002 gon/0.05 mil)/10" (0.005 gon/0.1 mil) (selectable) 9" Model:	
	10" (0.002 gon/0.05 mil)/20" (0.005 gon/0.1 mil) (selectable)	
Accuracy*1	5", 7	
Display		
Unit	2 sides for 5" and 7" model 1 side for 9" model	
Tilt Angle Compensation (5"	and 7" models)	
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)	
Optical Plummet		
Magnification	3	
Minimum focus	0.5	m
Sensitivity of Levels		
Circular level	10' / 2 mm	
Plate level	30"/2	2 mm
Power Supply		
Mode		1 (Optional accessory)
Operating Time (4 AA Alkalir		
Theodolite only	~ 250	1
Laser only	-	~ 80 hours
Compensation constant	-	~ 55 hours
Operating Time (BDC71)		
Signal source	Red laser diode (633 nm)	
Maximum output	0.6 mW	
Laser class	Class 2	
Laser beam range	50 m (in	daylight)
Hardware		
Ingress protection	Dust and water resistance	
Operating temperature range	-20 to 50°C (-4 to 122°F)*2	
Storage temperature range	-30 to 60°C (-22 to 140	
Size (with handle) W x D x H	5" and 7" Models: 173 x 181 x 318 mm 9" Models: 173 x 174 x 318 mm	
Weight (with batteries and battery holder)	5" and 7" Models 9" Models: 4.	s: 4.1 kg (9.04 lb) 0 kg (8.82 lb)

*1: ISO 17123-3: 2001 *2: No Direct sunlight at temperatures of 50°C (122°F)



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