

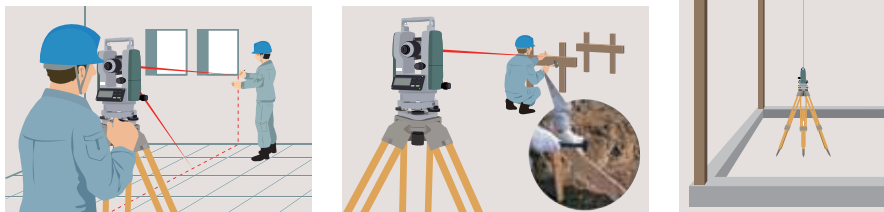
■ Long-Range Laser with Ultra-Small Beam Spot (Laser models)

The laser beam reaches 200m (660ft.) under indoor or underground conditions. Even under daylight conditions, the beam spot can be recognized at up to 50m (164ft.) away from the instrument. Red laser beam emitted from the objective lens is focused simultaneously with the telescope, meaning that the beam spot size becomes the minimum where you focus.

Beam Spot Size (when focused)

Distance	5m (16ft.)	10m (33ft.)	20m (66ft.)	30m (98ft.)	50m (164ft.)	
DT540L/740L	Beam Diameter (mm)	0.1x0.2	0.2x0.4	0.5x0.7	0.7x1.1	1.2x1.9
DT940L	Beam Diameter (mm)	0.1x0.2	0.3x0.4	0.6x0.8	0.8x1.2	1.4x2.0

The laser beam sizes are theoretical values. The visible laser beam size will vary with ambient brightness.



■ SPECIFICATIONS

	Digital Theodolite				Laser Digital Theodolite		
	DT240	DT540	DT740	DT940	DT540L	DT740L	DT940L
Laser pointer							
Type					Coaxial laser pointer with beam focusing capability		
Laser specifications					Class 2, Wavelength: 633nm, Maximum output: 0.6mW		
Laser range	Daylight					50m (164ft.)	
	Indoor (700 lux)					200m (656ft.)	
Telescope							
Length	149mm (5.9in.)				152mm (6.0in.)		
Objective aperture	45mm (1.8in.)		40mm (1.6in.)		45mm (1.8in.)		40mm (1.6in.)
Magnification	30x		26x		30x		26x
Resolving power	2.5"		3"		2.5"		3"
Image / Field of view	Erect / 1°30' (26m/1,000m)						
Minimum focus	0.9m (3.0ft.)				1m (3.3ft.)		
Stadia	Multiplication constant: 100, Additive constant: 0						
Reticle illumination	Y	Y	Y	-	Y	Y	-
Angle measurement							
Method	Absolute rotary encoder scanning						
Detecting	Horizontal	Diametrical		Single		Diametrical	Single
	Vertical	Diametrical		Single		Diametrical	Single
Display resolutions	1" / 5"		5" / 10"		1" / 5"		10" / 20"
	0.2 / 1mgon		1 / 2mgon		0.2 / 1mgon		2 / 5mgon
Accuracy	2"		5"		9"		7"
Circle diameter	7"		7"		7"		9"
Automatic compensation range	±3' (±55mgon)		-		±3' (±55mgon)		-
General							
Control panel layout	On both faces			On single face		On both faces	
Display	LCD, 7 digits x 2 lines, backlight						
Interface	RS-232C			-		RS-232C	
Optical plummet	Magnification: 3x, Field of view: 3°, Minimum focus: 0.5m (1.64ft.)						
Sensitivity of levels	Plate level	30"/2mm	40"/2mm	60"/2mm	40"/2mm	60"/2mm	60"/2mm
	Circle level	Detachable		Fixed		Detachable	Fixed
Tilbrach	Detachable						
Operating temperature	-20 to +50°C (-4 to +122°F)						
Dust and Water Protection	IP66 (IEC 60529:2001)						
Size (w/handle)	W188 x D149 x H313mm (W7.4 x D5.9 x H12.3in.)		W188 x D149 x H315mm (W7.4 x D5.9 x H12.0in.)		W188 x D152 x H313mm (W7.4 x D6.0 x H12.3in.)		W188 x D152 x H305mm (W7.4 x D6.0 x H12.0in.)
Weight (w/batteries)	4.1kg (9.0 lb.)		3.5kg (7.7 lb.)		4.2kg (9.3 lb.)		3.6kg (7.9 lb.)
Power supply							
Battery	LR6/AA batteries x 4						
Operating time w/alkaline batteries at 20°C (68°F)	Theodolite only	Approx.100 hrs	Approx.140 hrs	Approx.150 hrs	Approx.170 hrs	Approx.140 hrs	Approx.150 hrs
	Laser only	-					Approx.80 hrs
	Theodolite and laser	-					Approx.45 hrs

■ Standard accessories

- LR6/AA batteries (x4) • Lens cap • Plumb bob • Tool kit • Operator's manual • Carrying case and shoulder strap

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SOKKIA

DT240
DT540/DT740/DT940
DT540L/DT740L/DT940L
Digital Theodolite

The Richest Lineup Ensuring Maximum Job Efficiency at Unparalleled Performance Levels

■ Common Features for All Models

- 2.5" – unsurpassed telescope resolving power*
 - IP66 – industry's highest dust/water protection
 - Absolute encoders
 - Lightweight
 - Standard LR6/AA batteries
 - Up to 170 hours of operating time
- *Except for DT940(L)

■ Exclusive Features for the Laser Models

- 200m (660ft.) – long-range laser pointer
- 0.4mm@10m – ultra-small beam spot

■ Superior Performance and Durability

The Sokkia DT series theodolites feature superior optics, mechanics, advanced absolute encoder systems, and proven automatic compensators. In addition to these essential technologies for angle measurement instruments, the Sokkia DT series boasts the industry's highest IP66 dust and water protection capability to withstand the harshest worksite environments.



■ Power-Saving Technology to Save Battery Costs

Four LR6/AA alkaline batteries provide extra-long operating time from 100 to 170 hours, saving costs for replacement batteries. The DT instruments operate for two to five weeks, without changing batteries.*

* When used for seven hours a day, five days a week, excluding the use of laser pointers.

■ Laser Pointer to Increase Construction Work Efficiency (Laser models)

The DT laser models feature built-in coaxial laser pointers that maximize construction work efficiency. The applications include:

- Layout/ Setting-Out
- Horizontal/Vertical Alignment
- Leveling
- Grading
- Squaring

