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



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.

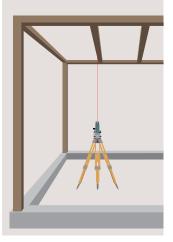
• Beam Spot Size (when focused)

	Distance	5m (16ft.)	10m (33ft.)	20m (66ft.)	30m (98ft.)	50m (164ft.)				
DT540L/740L	Beam Diameter (m	m) 0.1x0.2	0.2x0.4	0.5x0.7	0.7x1.1	1.2x1.9				
DT940L	Beam Diameter (m	m) 0.1x0.2	0.3x0.4	0.6x0.8	0.8x1.2	1.4x2.0				
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The laser beam sizes are theoretical values. The visible laser beam size will vary with ambient brightness.







SPECIFICATIONS

Model			heodolite	Laser Digital Theodolite							
		DT240	DT540	DT740	DT940	DT540L	DT740L	DT940L			
Laser pointer											
Туре				-	Coaxial laser pointer with beam foucsing capability						
Laser specifications				-	Class 2, Wavelength: 633nm, Maximum output: 0.6mW						
Laser range Daylight Indoor (700 lux)		-				50m (164ft.)					
				-	200m (656ft.)						
Telescope											
Length		149mm (5.9in.) 45mm (1.8in.) 40mm (1.6in.)				152mm (6.0in.)					
	Objective aperture		45mm (1.8in.)					40mm (1.6in.)			
Magnification		30x			26x	30x		26x			
Resolving power		2.5" 3				2.5"		3"			
Image / Field of	view				/ 1°30' (26m/1,0	000m)					
Minimum focus				(3.0ft.)	1m (3.3ft.)						
Stadia					litive constant: 0						
Reticle illuminat		Y	Y	Y	-	Y	Y	-			
Angle measure	ement										
Method				scanning							
Detecting	Horizontal	Diametrical			Single Diametrical			Single			
	Vertical	Diametrical			Sin						
Display resolutions		1" /		5" / 10"	10" / 20"	1" / 5"	5" / 10"	10" / 20"			
		0.2/1		1 / 2mgon	2 / 5mgon	0.2 / 1mgon	1 / 2mgon	2 / 5mgon			
Accuracy		2"	5"	7"	9" 71mm (2.8in.)	5"	7"	9"			
Circle diameter				1							
Automatic compensation range		±3'(±55mgon)			- ±3'(±55mgon) -						
General					I			1			
Control panel layout			On both faces		On single face						
Display				LCD, 7	acklight						
Interface		RS-2	232C		RS-232C		-				
Optical plummet						3°, Minimum focus: 0.5m (1.64ft.) 40"/2mm 60"/2mr					
Sensitivity of levels	Plate level	30"/2mm	40"/	2mm	60"/2mm	40"/2	2mm	60"/2mm			
	Circular level		Data da abila		10'/2mm	Datast		Et a sul			
Tribrach			Detachable Fixed				Detachable Fixed				
Operating temperature		-20 to +50°C (-4 to+122°F) IP66 (IEC 60529:2001)									
Dust and Water Protection		14100	D D1 40 UD1				W/100				
Size (w/handle)					W188 x D149 x H305mm			W188 x D152 x H305mm			
		(W7.4 x D5.9 x H12.3in.) 4.1kg (9.0 lb.)			(W7.4 x D5.9 x H12.0in.)			(W7.4 x D6.0 x H12.0in.			
Weight (w/batteries)		4.1Kg (9.0 ID.) 3.5Kg			3.5kg (7.7 lb.)	4.2Kg (9.3 ID.)	3.6kg (7.9 lb.)			
Power supply Battery					R6/AA batteries x						
Operating time	Theodolite only	Approx 100 him	Approx 140 here				Approx.150 hrs	Annual 170 hore			
w/alkaline batteries		Approx.100 hrs	Approx.140 hrs		Approx.170 hrs	Approx.140 hrs Approx.150 hrs Approx.170 hrs Approx.80 hrs					
at 20°C (68°F)	Laser only Theodolite and laser	-				Approx.60 fils					
Ineodolite and lase				-			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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