

Nikon Theodolites: Specifications

	NE-100	NE-101
TELESCOPE		
Effective diameter of objective:	1.77 in (45 mm)	1.77 in (45 mm)
Magnification:	30x	30x
Image:	erect	erect
Field of view:	1°20' (2.3ft @ 100 ft / 2.3m @ 100 m)	1°20' (2.3ft @ 100 ft / 2.3m @ 100 m)
Minimum focusing distance:	2.3 ft (0.7 m)	2.3 ft (0.7 m)
Stadia multiplier constant:	100	100
Stadia additive constant:	0	0
Reticle illuminator:	provided	provided
ANGLE MEASUREMENT		
Reading system:	photoelectric incremental encoder	photoelectric incremental encoder
Circle diameter:	3.1 in (79 mm)	3.1 in (79 mm)
Unit of reading:	degree / gon / mil	degree / gon / mil
Minimum digital reading ¹ :	10/20", 2/5 mgon, 0.05/0.1 mil	5/10", 1/2 mgon, 0.02/0.05 mil
Accuracy (DIN 18723)	10" / 3 mgon	7" / 2 mgon
DISPLAY/KEYPAD		
Front		
Type:	dot-matrix LCD (20 characters x 2 lines)	dot-matrix LCD (20 characters x 2 lines)
Backlight:	1-level illumination	1-level illumination
Keypad:	5 buttons	5 buttons
Rear		
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OPTICAL PLUMMET		
Magnification:	2.2x	2.2x
Field of view:	5°	5°
Focus range:	4.3 ft (1.3 m) fixed	4.3 ft (1.3 m) fixed
LEVEL SENSITIVITY		
Plate level:	60" / 2 mm	40" / 2 mm
Circular level:	10' / 2 mm	10' / 2 mm
LEVELING BASE		
Type:	detachable	detachable
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AMBIENT TEMPERATURE RANGE		
	-4 TO 122 °F (-20 to 50 C)	-4 TO 122 °F (-20 to 50 C)
ENVIRONMENTAL RATING		
	IP54	IP54
DIMENSIONS		
Instrument:	6.0 x 6.8 x 13.1 in (153.5 x 172 x 334 mm)	6.0 x 6.8 x 13.1 in (153.5 x 172 x 334 mm)
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WEIGHT		
Instrument:	9.8 lbs (4.5 kg)	9.8 lbs (4.5 kg)
Carrying case:	5.4 lbs (2.5 kg)	5.4 lbs (2.5 kg)
POWER SUPPLY		
Battery type:	1.5V alkaline AA x 6	1.5V alkaline AA x 6
Continuous operating time (at 68 °F / 20C)	48 hrs	48 hrs