Nikon NE-102 and NE-103 Theodolites

Exceptional Reliability and Ease of Use for Your General Construction Needs

Ease of use, reliability, and durability make the Nikon NE-102 and NE-103 series theodolites a smart choice for your general construction, alignment and layout applications. These affordable instruments, featuring the familiar Nikon quality, are ideal for concrete form alignment, anchor bolt positioning, and steel column erection. The theodolites enable a number of positioning techniques: 90-degree layout, checking angles, alignment and plumb, as well as short range grade work and leveling.

Easy-to-use display and keypad

The ergonomic keypad and display provide easy access to the powerful and accurate measurement capabilities of the Nikon NE-102 and NE-103 theodolites. Large, easy-to-identify buttons provide one-button operation for key functions. A large text display area makes information easy to read and use on the job. This design provides for a very short learning curve and utilization within a matter of minutes.

Maximum operation time

Standard AA alkaline batteries are the convenient power source for the Nikon NE-102 and NE-103 theodolites.

Operation time on a a single set of batteries is up to 22 hours, and a battery life indicator provides a visual reminder of battery status - providing better planning and reduced downtime.

Operation time is also enhanced by display and scope illumination that allows you to keep working outside even in low light conditions. These features can be especially useful near dawn or dusk during the short days of winter.

Tough, reliable and compact

The Nikon NE-102 and NE-103 theodolites are built tough to withstand the harsh environments common to many construction job sites. Resistant to water and dust, these rugged units are designed to reduce downtime for repairs.

The NE-102 and NE-103 are also compact and easy to transport. A small carrying case holds the theodolite, manual, and tools.

Features and Benefits

- Large display and keyboard make it easy to learn and use
- Alkaline (standard AA) batteries with battery life indicator
- Resistant to water and dust to withstand harsh job site conditions
- Small carrying case for easy transport
- Display and scope illumination for longer working hours in low light seasons or conditions
- Superior Nikon optics for exceptional viewing clarity

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Nikon NE-102and NE-103 Theodolites

Exceptional reliability and ease of use for your general construction needs

	NE-103	NE-102
Telescope		
Effective diameter of objective	ø45mm (1.77 in.)	
Magnification	30x	
Image	Erect	
Field of view (at 100m/100 ft.)	1°20' (2.3m/2.3 ft.)	
Shortest focusing distance	0.7m (2.3 ft.)	
Stadia multiplier constant	100	
Stadia additive constant	0	
Reticle illuminator	Provided	
Angle measurement		
Reading system	Photoelectric incremental encoder	
Circle diameter	ø79mm/3.1 in.	
Unit of reading	Degree/gon/mil (selectable)	
Minimum digital reading*	1/5", 0.2/1mgon, 0.005/0.02mil (selectable)	
Accuracy (based on DIN 18723)	5"/1mgon	
Automatic vertical compensator	**(NE-103 only)**	
Type	Liquid-electric detection	-
Working range	±3' (out-of-range warning provided)	-
Display		
Type	Dot-matrix LCD 20 characters x 2 lines	
Illumination	Backlight illumination provided	
Keyboard		
Location	Both sides	
Optical plummet		
Magnification	3x	
Field of view	5°	
Focus range	0.5m (1.6 ft.) to infinity	
Level sensitivity		
Plate level	30"/2mm	
Circular level	10'/2mm	
Leveling base		
Type	Detachable	
Internal power source		
Type of batteries	1.5V manganese R6-type (AA) x 6 or alkaline LR6-type (L40)	
Continuous operating time (at 20°C/68°F)		
With manganese battery (R6)	21 hrs.	22 hrs.
With alkaline battery (LR6)	47 hrs.	48 hrs.
Ambient temperature range		
–20°C to +50°C (–4°F to +122°F)		
Dimensions (W x D x H)		
153.5 x 172 x 334mm (6.0 x 6.8 x 13.1 in.)		
Weight		
Instrument	4.6kg (10.1 lbs.)	4.5kg (9.9 lbs.)
Plastic carrying case	3.9kg (8.6 lbs.)	

**1/5", 0.5/1mgon, 0.005/0.02mil available as option*

STANDARD ACCESSORIES

Carrying case

2x hexagonal keys (1.5mm/2mm)

Adjustment pin

6x AA batteries

Operation manual

Dust cover

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Nikon NE-100 and NE-101 Theodolites

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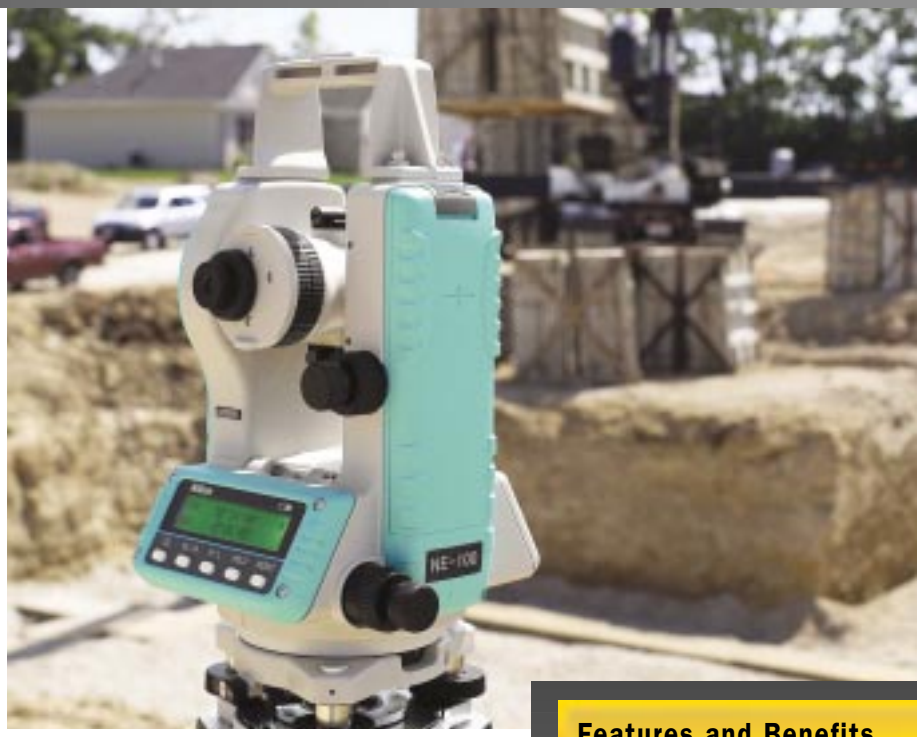

Operation time is also enhanced by display and scope illumination that allows you to keep working outside even in low light conditions. These features can be especially useful near dawn or dusk during the short days of winter.

Tough, reliable and compact

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Exceptional reliability and ease of use for your general construction needs

SPECIFICATIONS	NE-100	NE-101
TELESCOPE		
Magnification	30X	30X
Image	Erect	Erect
Field of view (at 100m/100ft.)	1°20'(2.3 m/2.3 ft)	1°20'(2.3 m/2.3 ft)
Shortest focus range	0.7 m/ 2.3 ft	0.7 m/ 2.3 ft
Stadia multiplier constant	100	100
Stadia additive constant	0	0
Reticule scope illuminator	Yes	Yes
ANGLE DISPLAY	10/20" 2/5 mgon 0.02/0.05 mil	5/10" 1/2 mgon 0.02/0.05 mil
H/V ANGLE ACCURACY	10"/3 mgon	7"/2.2 mgon
LCD DISPLAY	Dot-matrix 20 characters x 2 lines Backlight available	Dot-matrix 20 characters x 2 lines Backlight available
OPTICAL PLUMMET		
Magnification	2.2X	2.2X
Focusing range	Fixed (1.3 m/4.3 ft)	Fixed (1.3 m/4.3 ft)
Field of view	5°	5°
ACCURACY OF PLATE LEVEL VIAL	60"/2 mm	40"/2 mm
ACCURACY OF CIRCULAR LEVEL VIAL	10'/2 mm	10'/2 mm
DIMENSIONS (W X D X H)	153.5 x 172 x 334 mm	153.5 x 172 x 334 mm
POWER SUPPLY	6 x AA	6 x AA
ENVIRONMENTAL	Water and dust resistant	Water and dust resistant

STANDARD ACCESSORIES

Carrying case

2x hexagonal keys (1.5mm/2mm)

Adjustment pin

6x AA batteries

Operation manual

Dust cover

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