

NIKON N AND K TOTAL STATIONS



DATASHEET

2" and 5" angle accuracies

Prism and reflectorless models

Fast, accurate EDM

Phone App for easy data transfer

NFC simplifies bluetooth pairing

Power-up anywhere with the USB battery charger

Nikon N and K

The Nikon N and K total stations offer an advanced EDM in an innovative package, including flexible charging and connectivity options, and are backed by the great service and dealer support you expect from Nikon.

MODEL	Nikon N 2"	Nikon N 5"	Nikon K 2"	Nikon K 5"
EDM MODE(S)	Prism and Reflectorless	Prism and Reflectorless	Prism only	Prism only
DISPLAYS	Dual	Single	Dual	Single
LASER POINTER	✓	✓	-	-
IN-FIELD CHARGING	✓	✓	✓	✓
PHONE APP COMPATIBLE	✓	✓	✓	✓

Both the Nikon N and Nikon K have a new charger, featuring a USB-C on-the-go connection that lets you recharge via a power bank or car plug so you can recharge batteries even in remote areas.

The Total Station File Transfer app and Bluetooth connection let you easily transfer data between the field and office, so your data makes it to the office before you do.

Economical and practical, both include bright Nikon optics and rugged reliability, making each of these powerful total stations the right choice for a full range of projects.

NIKON TOTAL STATIONS, BUILT TOUGH FOR ALL OCCASIONS.

DISTANCE MEASUREMENT

Range with Nikon specified prisms¹

With reflector sheet (5 × 5 cm).....	1.5 m to 300 m (4.9 ft to 984 ft)
With single prism 6.25 cm (2.5 in).....	4,000 m (13,123 ft)

Range reflectorless mode (Nikon N)

KGC (18%)	
Good ¹	400 m (1312 ft)
Normal ²	300 m (984 ft)
Difficult ³	235 m (771 ft)
KGC (90%)	
Good ¹	600 m (1968 ft)
Normal ²	500 m (1640 ft)
Difficult ³	250 m (820 ft)

Accuracy⁴

Prism ⁵	±(2+2 ppm × D) mm
Reflector sheet.....	±(3+2 ppm × D) mm
Reflectorless ⁶	±(3+2 ppm × D) mm

Measuring interval⁷

Prism mode	
Precise mode.....	1.1 sec.
Normal mode.....	0.6 sec.
Fast mode.....	0.4 sec.
Reflectorless mode (Nikon N)	
Precise mode.....	1.1 sec.
Normal mode.....	0.6 sec.
Fast mode.....	0.4 sec.

Least count

Precise mode.....	0.1 mm (0.0002 ft)
Normal mode.....	1 mm (0.002 ft)

ANGLE MEASUREMENT

Accuracy ⁸ (horizontal and vertical).....	2" (0.6 mgon), or 5" (1.5 mgon)
Reading system.....	Photoelectric detection by incremental encoder
Circle diameter.....	88 mm (3.46 in)
Horizontal angle.....	2":Diametrical, 5":Single
Vertical angle.....	Single
Minimum increment.....	1/5/10" (0.2/1/2 mgon)

TELESCOPE

Tube length.....	125 mm (4.9 in)
Image.....	Erect
Magnification.....	30× (18×/36× with optional eyepieces)
Effective diameter of objective.....	45 mm (1.77 in)
Field of view.....	1°20'
Resolving power.....	3"
Minimum focusing distance.....	1.5 m (4.9 ft)
Laser Pointer (Nikon N).....	Coaxial Red Light

TILT SENSOR

Type.....	Dual axis
Method.....	Liquid-electric detection
Compensation range.....	±3'

COMMUNICATIONS

Communication ports.....	1 x serial (RS-232C)
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WIRELESS COMMUNICATIONS

Bluetooth.....	Integrated
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GENERAL SPECIFICATIONS

Level vials	
Sensitivity of Circular level vial.....	10'/2 mm
Optical plummet	
Image.....	Erect
Magnification.....	3X
Field of view.....	5°
Focusing range.....	0.5 m (1.6 ft) to ∞
Display	
2".....	Both sides, backlit, graphic LCD (128 × 64 pixel)
5".....	Single side, backlit, graphic LCD (128 × 64 pixel)
Point memory.....	50,000 records
Dimensions (W × D × H).....	168 mm × 173 mm × 335 mm (6.6 in × 6.8 in × 13.1 in)
Weight (approx.)	
Main unit (without battery).....	4.9 kg (10.8 lb)
Battery.....	0.1 kg (0.2 lb)
Battery charger.....	0.05 kg (0.1 lb)
Carrying case.....	2.5 kg (5.5 lb)
Power	
Clip-on Li-on battery.....	x1 incl.
Operating time ⁹ (per battery)	
Continuous distance/angle measurement.....	approx. 4.5 hours
Distance/angle measurement every 30 seconds.....	approx. 14 hours
Continuous angle measurement.....	approx. 22 hours
Charging time	
Full charge.....	6 hours
External power supply.....	Yes

ENVIRONMENTAL

Ambient temperature range.....	-20 °C to +50 °C (-4 °F to +122 °F)
Atmospheric correction	
Temperature range.....	-40 °C to +60 °C (-40 °F to +140 °F)
Barometric pressure.....	400 to 999 mmHg (533 to 1,332 hPa, or 15.8 to 39.3 inHg)
Dust and water protection.....	IP55

CERTIFICATION

Class B Part 15 FCC certification, CE Mark approval.	
IEC60825-1:2014	
Reflectorless mode.....	Class 1
Laser Pointer.....	Class 2
Prism mode.....	Class 1

1. Good conditions (good visibility, overcast, twilight, low ambient light).
2. Normal conditions (normal visibility, object in the shadow, moderate ambient light).
3. Difficult conditions (haze, object in direct sunlight, high ambient light).
4. Measurement taken using Precise mode, and Standard deviation based on ISO 17123-4
5. Accuracy at close range, 1.5 to 5m, is ±(5 + 2 ppm × D) mm
6. Accuracy at close range, 1.5 to 5m, is ±(10 + 2 ppm × D) mm
7. Measuring time may vary depending on measuring distance and conditions. Specification based on average of repeated measurements.
8. Angular accuracy based on ISO 17123-3
9. Battery life specification at 25 °C (77 °F). Operation times may vary depending on the condition and deterioration of the battery. Operation time may be shorter at low temperatures.

Bluetooth type approvals are country specific.
Specifications subject to change without notice.

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Please visit spectrageospatial.com for the latest product information and to locate your nearest distributor. Specifications and descriptions are subject to change without notice.