

# **Nikon** N SERIES/K SERIES TOTAL STATION QUICK START GUIDE



Face 1



Face 2



Item	Description	Item	Description
1	Carrying handle	14	Horizontal tangent screw
2	Optical sight (Finder)	15	CFR label
3	Telescope focusing ring	16	Laser Safety label
4	Telescope eyepiece	17	Objective lens <b>⚠ CAUTION:</b> Laser light is emitted from this part
5	Diopter ring	18	Face-2 display/keyboard (for N 2"/K 2")
6	Reticle plate cover	19	EAC label
7	Face-1 display/keyboard	20	Data output/Input connector <b>⚠ CAUTION:</b> Input voltage shall be 4.5 to 5.2 V DC
8	FCC label	21	Trunnion axis indication mark Tapping point for NFC
9	Tribrach clamp knob	22	Optical plummet
10	Battery case mounting button	23	Circular level
11	Vertical tangent screw	24	Leveling screw
12	Vertical clamp	25	Tribrach
13	Horizontal clamp		

## Standard components

- Instrument main body
- Battery pack
- Battery charger U-120
- Adjustment pin, Allen wrench
- Objective lens cap
- Vinyl rain/dust cover
- Carrying case
- Shoulder strap

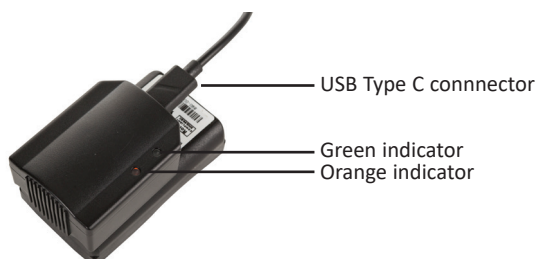
## Charging the battery pack

**⚠ WARNING:** Before charging or connecting the battery pack, please refer to the battery safety information in the Nikon N Series/K Series Total Station Instruction Manual.

The battery pack is supplied partly charged. Before using it for the first time, charge the battery pack completely.

Connect the charger to the USB bus with the supplied USB cable. The power input must be 5 V with at least 1 A of current capability.

**Note** – A USB AC adapter is not included. Please prepare an appropriate one. USB PD (Power Delivery) AC adapters cannot be used.



## Inserting the battery pack

Before inserting the battery pack, clear any dust or other foreign particles from the battery contacts.

1. Hold the instrument steady with one hand.
2. Fit the two projections at the bottom of the battery case into the concave sections at the bottom of the instrument.
3. Press the battery case mounting button.
4. Push the battery pack against the instrument and release the battery case mounting button. Ensure that the battery case mounting button is fully released and the battery pack is securely attached to the instrument.

**⚠ CAUTION:** If the battery box cover is not closed, this could adversely affect the watertightness of the instrument.



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### Safety information

Models N 2" and N 5" are a CLASS 2 LASER PRODUCT and Models K 2" and K 5" are a CLASS 1 LASER PRODUCT in accordance with IEC 60825-1:2014: "Safety of Laser Product".

Precautions: To counteract hazards, it is essential for all users to pay careful attention to the safety precautions and control measures specified in the standard IEC60825-1:2014. For further information, please refer to the Nikon N Series/K Series Total Station Instruction Manual.

**Note** – This product complies with IEC 60825-1:2014 and IEC 60825-1:2007 and 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice no. 50, dated June 24, 2007.

**⚠ WARNING:** Only qualified and trained persons should be assigned to install, adjust and operate the laser equipment.

**⚠ WARNING:** Precautions should be taken to ensure that persons do not look directly, with or without an optical instrument, into the beam.

**⚠ WARNING:** Laser beam path should be located well above or below eye level wherever practicable.

**Table 1.1 Specifications for laser emission**

Laser pointer Class 2 (only applies to Nikon N models)	
Wave length	630-680 nm
Output power	CW Po ≤ 1 mW
Distance meter Class 1	
Wave length	850-890 nm
Output power	Pulse Po ≤ 22 W
Pulse width	< 5 ns

**Table 1.2 Conforming standards**

E.U.	IEC60825-1:2014 Laser pointer: Class 2 (only applies to Nikon N models) Distance meter: Class 1
USA	FDA21CFR Part 1040 Sec.1040.10 and 1040.11 (except for deviations pursuant to Laser Notice No.50, dated June 24, 2007)

For details regarding the features and operations of this instrument, and to access the latest information including instruction manuals and application software, please go to [www.spectrageospatial.com](http://www.spectrageospatial.com).