Total Stations - Nikon Nivo™ C Series



- Survey Pro software on-board
- Windows CE touch-screen
- High quality Nikon optics
- Fast, accurate EDM
- Prism and reflectorless measurements
- Easy-to-use 2nd face keypad
- Hot swappable batteries
- Compact, rugged, and lightweight
- Cable-free Bluetooth®
- Optional laser plummet

The Nivo C Series is designed with a feature-packed Windows® CE touch-screen interface. Field application software functions are supported by the world class Spectra Precision® Survey ProTM field software for all your surveying and construction measurement needs.

All Nivo C Series solutions are designed with high productivity in mind, including a dual face display for efficient high precision angle and distance measurements. Work all day long with endless power using hot swappable batteries, you'll never need to worry about interrupting your workflow to change a battery again.

To assist you with the multitudes of data needs of the 21st century, the Nivo C Series includes:

- Support for USB memory sticks
- Wireless cable-free Bluetooth connections to external data collectors
- A USB High-speed data transfer port

The Nivo C Series is available in 2", 3" and and 5" models to meet your specific accuracy needs.

Total Stations - Nikon Nivo™ C Series

Specifications Sheet

| Note Facility Degree 15710" Degree 15710" Degree 15710" Degree 15710" Gene 2717 region Miller400 00550 (27005 mill 3711 mgon Miller400 00550 (27005 mill 3711 mgon Miller400 00550 (27005 mill 3711 mgon Miller400 00550 (27005 miller4005 miller400 Miller400 00550 (27005 | DIN 18723 accuracy (horizontal and vertical) TELESCOPE Magnification Effective diameter of objective Minimum focusing distance Reticle illumination DISTANCE MEASUREMENT Reflectorless mode (white target)¹ Good conditions With single prism Accuracy (Prism/Precise mode)² Accuracy (Reflectorless/Precise mode)² MEASURING INTERVAL³ Prism mode Precise mode Normal mode Reflectorless mode Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | Degree: 1/5/10" Gon: 0.2/1/2 mgon MIL6400: 0.005/0.02/0.05 mil 2"/0.5 mgon 30× (18x/36x with optional eyepieces) 40 mm (1.6 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 3,000 m (9,843 ft) (2+2 ppm × D) mm (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | Degree: 1/5/10" Gon: 0.2/1/2 mgon MIL6400: 0.005/0.02/0.05 mil 3"/1 mgon 30× (18x/36x with optional eyepieces) 45 mm (1.8 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm×D) mm (3+2 ppm×D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | Degree: 1/5/10" Gon: 0.2/1/2 mgon MIL6400: 0.005/0.02/0.05 mil 5"/1.5 mgon 30× (18x/36x with optional eyepieces) 45 mm (1.8 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
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| Degree 15/10" Degree 15/10 | Minimum increment (Degree, Gon, MIL6400) DIN 18723 accuracy (horizontal and vertical) TELESCOPE Magnification Effective diameter of objective Minimum focusing distance Reticle illumination DISTANCE MEASUREMENT Reflectorless mode (white target)¹ Good conditions With single prism Accuracy (Prism/Precise mode)² Accuracy (Reflectorless/Precise mode)² MEASURING INTERVAL³ Prism mode Precise mode Normal mode Reflectorless mode Normal mode Least count Precise mode Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | Gon. 0.2/1/2 mgon MIL6400: 0.005/0.02/0.05 mil 2"/0.5 mgon 30× (18x/36x with optional eyepieces) 40 mm (1.6 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 3,000 m (9,843 ft) (2+2 ppm×D) mm (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | Gon: 0.2/1/2 mgon MIL6400: 0.005/0.02/0.05 mil 3"/1 mgon 30× (18x/36x with optional eyepieces) 45 mm (1.8 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm×D) mm (3+2 ppm×D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | Gon: 0.2/1/2 mgon MIL6400: 0.005/0.02/0.05 mil 5"/1.5 mgon 30× (18x/36x with optional eyepieces) 45 mm (1.8 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| 27.05 mgon 37/1 mgon 57/15 mgon 57/1 | TELESCOPE Magnification Effective diameter of objective Minimum focusing distance Reticle illumination DISTANCE MEASUREMENT Reflectorless mode (white target)¹ Good conditions With single prism Accuracy (Prism/Precise mode)² Accuracy (Reflectorless/Precise mode)² MEASURING INTERVAL³ Prism mode Precise mode Normal mode Reflectorless mode Normal mode Least count Precise mode Normal mode Least count Precise mode Normal mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 2"/0.5 mgon 30× (18x/36x with optional eyepieces) 40 mm (1.6 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 3,000 m (9,843 ft) (2+2 ppm × D) mm (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | 3"/1 mgon 30× (18x/36x with optional eyepieces) 45 mm (1.8 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm×D) mm (3+2 ppm×D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | 5"/1.5 mgon 30× (18x/36x with optional eyepieces) 45 mm (1.8 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm × D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| Registration 30× (18x/36x with optional experience) 40 mm (1.5 m) 40 mm (1.5 m) 45 mm (| TELESCOPE Magnification Effective diameter of objective Minimum focusing distance Reticle illumination DISTANCE MEASUREMENT Reflectorless mode (white target)¹ Good conditions With single prism Accuracy (Prism/Precise mode)² Accuracy (Reflectorless/Precise mode)² MEASURING INTERVAL³ Prism mode Precise mode Normal mode Reflectorless mode Normal mode Least count Precise mode Normal mode Least count Precise mode Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 30× (18x/36x with optional eyepieces) 40 mm (1.6 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 3,000 m (9,843 ft) (2+2 ppm × D) mm (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | 30× (18x/36x with optional eyepieces) 45 mm (1.8 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm×D) mm (3+2 ppm×D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | 30× (18x/36x with optional eyepieces) 45 mm (1.8 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| Magnification 30× (18x/3 for with optional eyepieces) 30× (18x/3 f | Magnification Effective diameter of objective Minimum focusing distance Reticle illumination DISTANCE MEASUREMENT Reflectorless mode (white target)¹ Good conditions With single prism Accuracy (Prism/Precise mode) ² Accuracy (Reflectorless/Precise mode) ² MEASURING INTERVAL³ Prism mode Precise mode Normal mode Reflectorless mode Precise mode Normal mode Least count Precise mode Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 40 mm (1.6 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 3,000 m (9,843 ft) (2+2 ppm × D) mm (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | 45 mm (1.8 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | 45 mm (1.8 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| Uffering damates of objective | Effective diameter of objective Minimum focusing distance Reticle illumination DISTANCE MEASUREMENT Reflectorless mode (white target)¹ Good conditions With single prism Accuracy (Prism/Precise mode)² Accuracy (Reflectorless/Precise mode)² MEASURING INTERVAL³ Prism mode Precise mode Normal mode Reflectorless mode Normal mode Least count Precise mode Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 40 mm (1.6 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 3,000 m (9,843 ft) (2+2 ppm × D) mm (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | 45 mm (1.8 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | 45 mm (1.8 in) 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| Minimum footaling distance 1.5 m (4.9 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft to 984 ft) 1.5 m to 300 m (4.9 ft t | Minimum focusing distance Reticle illumination DISTANCE MEASUREMENT Reflectorless mode (white target)¹ Good conditions With single prism Accuracy (Prism/Precise mode)² Accuracy (Reflectorless/Precise mode)² MEASURING INTERVAL³ Prism mode Precise mode Normal mode Reflectorless mode Normal mode Least count Precise mode Normal mode Least count Precise mode Normal mode Normal mode Least count Precise mode Normal mode Normal mode | 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 3,000 m (9,843 ft) (2+2 ppm × D) mm (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | 1.5 m (4.9 ft) Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| Redical Hillmatation Yes Yes Yes Yes | Reticle illumination DISTANCE MEASUREMENT Reflectorless mode (white target)¹ Good conditions With single prism Accuracy (Prism/Precise mode)² Accuracy (Reflectorless/Precise mode)² MEASURING INTERVAL³ Prism mode Precise mode Normal mode Reflectorless mode Normal mode Least count Precise mode Normal mode Least count Precise mode Normal mode Normal mode Descriptions Normal mode | Yes 1.5 m to 300 m (4.9 ft to 984 ft) 3,000 m (9,843 ft) (2+2 ppm × D) mm (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | Yes 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| STANCE MEASUREMENT | DISTANCE MEASUREMENT Reflectorless mode (white target)¹ Good conditions With single prism Accuracy (Prism/Precise mode)² Accuracy (Reflectorless/Precise mode)² MEASURING INTERVAL³ Prism mode Precise mode Normal mode Reflectorless mode Precise mode Normal mode Least count Precise mode Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 1.5 m to 300 m (4.9 ft to 984 ft) 3,000 m (9,843 ft) (2+2 ppm × D) mm (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | 1.5 m to 300 m (4.9 ft to 984 ft) 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| 1.5 m to 300 m (4.9 ft to 984 ft) | Reflectorless mode (white target)¹ Good conditions With single prism Accuracy (Prism/Precise mode)² Accuracy (Reflectorless/Precise mode)² MEASURING INTERVAL³ Prism mode Precise mode Normal mode Reflectorless mode Precise mode Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 3,000 m (9,843 ft) (2+2 ppm × D) mm (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| Mith single prism 3,000 m (9,843 ft) 5,000 m (16,404 ft) 5,000 m (16,404 ft) | Good conditions With single prism Accuracy (Prism/Precise mode) 2 Accuracy (Reflectorless/Precise mode) 2 MEASURING INTERVAL3 Prism mode Precise mode Normal mode Reflectorless mode Precise mode Normal mode Least count Precise mode Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 3,000 m (9,843 ft) (2+2 ppm × D) mm (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | 5,000 m (16,404 ft) (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| Accuracy (Reflectorless/Pectice mode) 2 | Accuracy (Prism/Precise mode) ² Accuracy (Reflectorless/Precise mode) ² MEASURING INTERVAL ³ Prism mode Precise mode Normal mode Reflectorless mode Precise mode Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | (2+2 ppm × D) mm (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | (3+2 ppm × D) mm (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| Accuracy (Reflectorless/Precise mode) 2 (3 + 2 ppm x D) mm | Accuracy (Reflectorless/Precise mode) 2 MEASURING INTERVAL3 Prism mode Precise mode Normal mode Reflectorless mode Precise mode Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | (3+2 ppm x D) mm 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | (3+2 ppm x D) mm 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| Pricise mode Precise mode 1.6 sec. 1.5 sec. 1.6 sec. 1.6 sec. 1.6 sec. 1.8 sec. 1.0 sec. 1 | MEASURING INTERVAL ³ Prism mode Precise mode Normal mode Reflectorless mode Precise mode Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 1.6 sec. 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | 1.5 sec. 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
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| Normal mode 0.8 sec. 0.8 sec. 0.8 sec. 0.8 sec. 0.8 sec. 0.8 sec. 1.8 sec 1.8 sec 1.8 sec 1.9 sec. 1. | Reflectorless mode Precise mode Least count Precise mode Normal mode Normal mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 0.8 sec. 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | 0.8 sec. 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| Reflectorless mode Precise mode 2.1 sec. 1.8 sec. 1.8 sec. 1.0 se | Reflectorless mode Precise mode Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 2.1 sec. 1.2 sec. 1 mm (0.002 ft) | 1.8 sec. 1.0 sec. 1 mm (0.002 ft) | 1.8 sec. 1.0 sec. 1 mm (0.002 ft) |
| Normal mode 1.2 sec. 1.0 mm (0.002 ft) 1 mm (0.002 ft) 1 mm (0.002 ft) 1 mm (0.002 ft) 1 mm (0.002 ft) 10 mm (0.02 ft) 10 mm (0. | Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 1.2 sec. 1 mm (0.002 ft) | 1.0 sec. 1 mm (0.002 ft) | 1.0 sec. 1 mm (0.002 ft) |
| Normal mode | Normal mode Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 1 mm (0.002 ft) | 1 mm (0.002 ft) | 1 mm (0.002 ft) |
| Least count Precise mode 1 mm (0.002 ft) 10 mm (0.02 ft) | Least count Precise mode Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | | | |
| Normal mode 10 mm (0.02 ft) 10 mm (0.02 ft) 10 mm (0.02 ft) 10 mm (0.02 ft) NOVIRONMENTAL SPECIFICATIONS PERATING TEMPERATURE RANGE −20 °C to +50 °C (−4 °F to +122 °F) −20 °C to +50 °C (−4 °F to +122 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +122 °F) −40 °C to +60 °C (−40 °F to +122 °F) −40 °C to +60 °C (−40 °F to +122 °F) −40 °C to +60 °C (−40 °F to +122 °F) −40 °C to +60 °C (−40 °F to +122 °F) −40 °C to +60 °C (−40 °F to +122 °F) −40 °C to +60 °C (−40 °F to +122 °F) −40 °C to +60 °C (−40 °F to +122 °F) −40 °C to +60 °C (−40 °F to +122 °F) −40 °C to +60 °C (−40 °F to +122 °F) −40 °C to +60 °C (−40 °F to +120 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F to +140 °F) −40 °C to +60 °C (−40 °F t | Normal mode ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | | | |
| NYIRONMENTAL SPECIFICATIONS PERATING TEMPERATURE RANGE −20 °C to +50 °C (−4 °F to +122 °F) −20 °C to +50 °C (−4 °F to +122 °F) −20 °C to +50 °C (−4 °F to +122 °F) | ENVIRONMENTAL SPECIFICATIONS OPERATING TEMPERATURE RANGE | 10 11111 (0.02 1) | 10 111111 (0.02 11) | |
| PERATING TEMPERATURE RANGE | OPERATING TEMPERATURE RANGE | | | 10 11111 (0:02 1t) |
| TMOSPHERIC CORRECTION Emperature range —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to +60 °C (−40 °F to +140 °F) —40 °C to + | | 20 °C to 1 E0 °C (4 °E to 1 122 °E) | 20 °C to 1 E0 °C (4 °E to 1 122 °E\ | 20 °C to 1 E0 °C (4 °E to 1 122 °E) |
| A00 mmHg to 999 mmHg | | -20 C (0 +30 C (-4 F (0 + 122 F) | -20 Ct0+30 C(-4 Ft0+122 F) | -20 C(0+30 C(-4 F(0+122 F) |
| A00 mmHg to 999 mmHg | Temperature range | -40 °C to +60 °C (−40 °F to +140 °F) | -40 °C to +60 °C (-40 °F to +140 °F) | -40 °C to +60 °C (-40 °F to +140 °F) |
| S33 hPa to 1,332 hPa S33 hPa to 1,332 hP | balometric piessule | | | |
| S33 hPa to 1,332 hPa S33 hPa to 1,332 hP | | 400 mmHa to 999 mmHa | 400 mmHa to 999 mmHa | 400 mmHa to 999 mmHa |
| 15.8 inHg to 39.3 inHg | | | | |
| Till TSENSOR Dual axis Dual axis Dual axis Dual axis | | • | , | |
| 10 2 mm 3 3 3 3 3 3 3 3 3 | TILT SENSOR | Dual axis | | |
| DEFICAL PLUMMET Magnification 3× 3× 3× 3× 3× 3× 3× 3 | LEVEL VIALS | | | |
| Face 1 QVGA,16 bit color, TFT LCD, backlit (320x240 pixel) Backlit, graphic LCD (128x64 pixel) Backlit, grap | | 10'/2 mm | | |
| Face 1 QVGA,16 bit color, TFT LCD, backlit (320x240 pixel) Backlit, graphic LCD (128x64 pix | OPTICAL PLUMMET Magnification | 3× | 3× | 3× |
| Face 2 Backlit, graphic LCD (128x64 pixel) Backlit, graphic LCD (128x64 pixel) Backlit, graphic LCD (128x64 pixel) AEMORY 128 MB RAM, 128 MB Flash memory 128 MB RAM, 128 MB Flash memory 128 MB RAM, 128 MB Flash memory DIMENSIONS (W X D X H) 149 mm x 145 mm x 306 mm 149 mm x 145 mm x 306 mm 149 mm x 145 mm x 306 mm (5.8 in x 5.7 in x 12.0 in) (5.8 in x 5.7 in x 12.0 in) (5.8 in x 5.7 in x 12.0 in) | DISPLAY | | | |
| AEMORY 128 MB RAM, 128 MB Flash memory 128 MB RAM, 128 MB Flash memory 128 MB RAM, 128 MB Flash memory DIMENSIONS (W X D X H) 149 mm x 145 mm x 306 mm 149 mm x 145 mm x 306 mm 149 mm x 145 mm x 306 mm (5.8 in x 5.7 in x 12.0 in) (5.8 in x 5.7 in x 12.0 in) (5.8 in x 5.7 in x 12.0 in) VEIGHT (APPROX) (5.8 in x 5.7 in x 12.0 in) (5.8 in x 5.7 in x 12.0 in) | | | | |
| PIMENSIONS (W X D X H) 149 mm x 145 mm x 306 mm 149 mm x 145 mm x 306 mm 149 mm x 145 mm x 306 mm (5.8 in x 5.7 in x 12.0 in) (5.8 in x 5.7 in x 12.0 in) (5.8 in x 5.7 in x 12.0 in) | | | | |
| (5.8 in x 5.7 in x 12.0 in) | | | | |
| VEIGHT (APPROX) | DIMENSIONS (W A D A M) | | | |
| | WEIGHT (APPROX) | (5.0 III A 5.7 III A 12.0 III) | (3.0 111 / 5.7 111 / 12.0 111) | را ۱۱۱۸ ۱۸ ۱۱۱۸ م.د. ا |
| | Main unit (without battery) | 3.9 kg (8.6 lb) | 3.8 kg (8.4 lb) | 3.8 kg (8.4 lb) |
| Battery 0.1 kg (0.02 lb) 0.1 kg (0.02 lb) 0.1 kg (0.02 lb) | • | 3 · · · · | | |
| Carrying case 2.3 kg (5.1 lb) 2.3 kg (5.1 lb) 2.3 kg (5.1 lb) | , | | 3 | |
| | INTERNAL LI ION BATTERY (x2) | | | |
| | Operating time ⁴ | approx. 12 hours (continuous distance/angle measurement) | approx. 7.5 hours (continuous distance/angle measurement)) | approx. 7.5 hours (continuous distance/angle measurement) |
| approx. 26 hours approx. 16 hours approx. 16 hours | | | | - |
| (distance/angle measurement every 30 seconds) (distance/angle measurement every 30 seconds) (distance/angle measurement every 30 seconds) | | | | |
| approx. 28 hours (continuous angle measurement) approx. 20 hours (continuous angle measurement) approx. 20 hours (continuous angle measurement) | | | | |
| Output voltage 3.8 V DC 3.8 V DC 3.8 V DC 3.8 V DC | Output voltage | | | |
| output votage. | | | | |
| recturging time | Kecnarging time COMMUNICATION PORTS | 1 x serial (RS-232C), 2 x USB (host and client) | 1 x serial (RS–232C), 2 x USB (host and client) | 1 x serial (RS-232C), 2 x USB (host and client) |
| Ty corial (IV 12)(1) Ty corial | | Integrated Bluetooth | Integrated Bluetooth | I x seriai (KS-232C), 2 x OSB (NOSt and Client) Integrated Bluetooth |

¹ White objects with high reflectivity (KGC 90%). Measuring distance may vary depending on targets and measuring conditions.

^{2 (3+3} ppm × D) mm -20 °C to -10 °C, +40 °C to +50 °C (-4 °F to +14 °F, +104 °F to +122 °F).

³ Measuring time may vary depending on measuring distance and conditions. For the initial measurement, it may take a few more seconds.

⁴ Battery life specification at 25 °C (77 °F). Operation time may be shorter in low temperatures and if the battery is not new.

Total Stations - Nikon NivoTM M Series



- High quality Nikon optics
- Intuitive powerful software
- Fast, accurate EDM
- Prism and reflectorless measurements
- Easy-to-use keypad
- Hot swappable batteries
- Compact, rugged, and lightweight
- Optional cable-free Bluetooth
- Optional laser plummet

Nikon has combined simplicity and quality together in perfect harmony to produce the Nikon M Series.

These compact and efficient products use a field-proven Nikon interface and field software that is quick to learn and easy-to-use.

Supporting both prism-based and reflectorless technologies, you can be assured of accurate repeatable measurements all day long to any point.

The distance measurements are fast and flexible with the Nivo M Series. Use the MSR1 & MSR2 keys to separately configure different prism or reflectorless measurement parameters, eliminating time switching between measurement modes.

Nivo M Series fi eld software highlights include:

- A complete set of CoGo functions
- Simple data management of fi les
- Quick-coding for convenient one-button data collection of point features and your raw target data

The ultimate in quality for hardworking conditions all day, every day.

The Nivo M Series is available in 2", 3" and 5" models to meet your specific accuracy needs.

Total Stations - Nikon NivoTM M Series

Specifications Sheet

| SPECIFICATIONS | NIVO 2.M | NIVO 3.M | NIVO 5.M |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| ANGLE MEASUREMENT | | | |
| Minimum increment (Degree, Gon, MIL6400) | Degree: 1/5/10" | Degree: 1/5/10" | Degree: 1/5/10" |
| | Gon: 0.2/1/2 mgon | Gon: 0.2/1/2 mgon | Gon: 0.2/1/2 mgon |
| | MIL6400: 0.005/0.02/0.05 mil | MIL6400: 0.005/0.02/0.05 mil | MIL6400: 0.005/0.02/0.05 mil |
| DIN 18723 accuracy (horizontal and vertical) | 2"/0.5 mgon | 3"/1 mgon | 5"/1.5 mgon |
| ELESCOPE | | | |
| Magnification | $30 \times (18x/36x \text{ with optional eyepieces})$ | $30 \times (18x/36x \text{ with optional eyepieces})$ | $30 \times (18x/36x \text{ with optional eyepieces})$ |
| Effective diameter of objective | 40 mm (1.6 in) | 45 mm (1.8 in) | 45 mm (1.8 in) |
| Minimum focusing distance | 1.5 m (4.9 ft) | 1.5 m (4.9 ft) | 1.5 m (4.9 ft) |
| Reticle illumination | No | No | No |
| DISTANCE MEASUREMENT | | | |
| Reflectorless mode (white target) ¹ | 1.5 m to 300 m (4.9 ft to 984 ft) | 1.5 m to 300 m (4.9 ft to 984 ft) | 1.5 m to 300 m (4.9 ft to 984 ft) |
| Good conditions | | | |
| With single prism | 3,000 m (9,843 ft) | 5,000 m (16,404 ft) | 5,000 m (16,404 ft) |
| Accuracy (Prism/Precise mode) 2 | $(2+2 \text{ ppm} \times D) \text{ mm}$ | $(3+2 \text{ ppm} \times D) \text{ mm}$ | $(3+2 \text{ ppm} \times D) \text{ mm}$ |
| Accuracy (Reflectorless/Precise mode) 2 | (3+2 ppm x D) mm | (3+2 ppm x D) mm | (3+2 ppm x D) mm |
| IEASURING INTERVAL ³ | | | |
| Prism mode Precise mode | 1.6 sec. | 1.5 sec. | 1.5 sec. |
| Normal mode | 0.8 sec. | 0.8 sec. | 0.8 sec. |
| | 2.1 sec. | 1.8 sec. | 1.8 sec. |
| Reflectorless mode Precise mode | | | |
| Normal mode | 1.2 sec. | 1.0 sec. | 1.0 sec. |
| Least count Precise mode | 1 mm (0.002 ft) | 1 mm (0.002 ft) | 1 mm (0.002 ft) |
| Normal mode | 10 mm (0.02 ft) | 10 mm (0.02 ft) | 10 mm (0.02 ft) |
| NVIRONMENTAL SPECIFICATIONS | | | |
| PERATING TEMPERATURE RANGE | -20 °C to +50 °C (-4 °F to +122 °F) | -20 °C to +50 °C (-4 °F to +122 °F) | -20 °C to +50 °C (-4 °F to +122 °F) |
| MOSPHERIC CORRECTION | | | |
| Temperature range | $-40 ^{\circ}\text{C}$ to $+60 ^{\circ}\text{C}$ ($-40 ^{\circ}\text{F}$ to $+140 ^{\circ}\text{F}$) | $-40 ^{\circ}\text{C}$ to $+60 ^{\circ}\text{C}$ ($-40 ^{\circ}\text{F}$ to $+140 ^{\circ}\text{F}$) | $-40 ^{\circ}\text{C}$ to $+60 ^{\circ}\text{C}$ ($-40 ^{\circ}\text{F}$ to $+140 ^{\circ}\text{F}$) |
| | | | |
| | 400 11 . 000 11 | 400 H + 000 H | 400 |
| Barometric pressure | 400 mmHg to 999 mmHg | 400 mmHg to 999 mmHg | 400 mmHg to 999 mmHg |
| | 533 hPa to 1,332 hPa | 533 hPa to 1,332 hPa | 533 hPa to 1,332 hPa |
| UT CENCOD | 15.8 inHg to 39.3 inHg | 15.8 inHg to 39.3 inHg | 15.8 inHg to 39.3 inHg |
| LT SENSOR | Dual axis | Dual axis | Dual axis |
| EVEL VIALS Specification of Circular level vial | 101/2 | 101/2 | 101/3 |
| Sensitivity of Circular level vial | 10'/2 mm | 10'/2 mm | 10'/2 mm |
| PTICAL PLUMMET Magnification | Single side backlit graphic ICD | 3× Single side, backlit, graphic LCD | 3× Single side, backlit, graphic LCD |
| ISPLAY | Single side, backlit, graphic LCD (128x64 pixel) | (128x64 pixel) | (128x64 pixel) |
| DINT MEMORY | 10,000 records | 10,000 records | 10,000 records |
| IMENSIONS (W X D X H) | 149 mm x 145 mm x 306 mm (5.8 in x 5.7 in x 12.0 in) | 149 mm x 145 mm x 306 mm (5.8 in x 5.7 in x 12.0 in) | 149 mm x 145 mm x 306 mm (5.8 in x 5.7 in x 12.0 in) |
| EIGHT (APPROX) | V | | (|
| Main unit (without battery) | 3.8 kg (8.4 lb) | 3.6 kg (8.0 lb) | 3.6 kg (8.0 lb) |
| Battery | 0.1 kg (0.2 lb) | 0.1 kg (0.2 lb) | 0.1 kg (0.2 lb) |
| Carrying case | 2.3 kg (5.1 lb) | 2.3 kg (5.1 lb) | 2.3 kg (5.1 lb) |
| ITERNAL LI ION BATTERY (x2) | approx. 19 hours (continuous distance/angle measurement) | approx. 10 hours (continuous distance/angle measurement)) | approx. 10 hours (continuous distance/angle measurement) |
| Operating time ⁴ | | · · | |
| | approx. 57 hours | approx. 26 hours | approx. 26 hours |
| | (distance/angle measurement every 30 seconds) | (distance/angle measurement every 30 seconds) | (distance/angle measurement every 30 seconds) |
| | approx. 62 hours (continuous angle measurement) | approx. 31 hours (continuous angle measurement) | approx. 31 hours (continuous angle measurement) |
| Output voltage | 3.8 V DC | 3.8 V DC | 3.8 V DC |
| Recharging time | 4 hours | 4 hours | 4 hours |
| OMMUNICATION PORTS | 1 x serial (RS-232C) | 1 x serial (RS-232C) | 1 x serial (RS-232C) |
| /IRELESS COMMUNICATIONS | Optional integrated Bluetooth | Optional integrated Bluetooth | Optional integrated Bluetooth |
| | | | |

¹ White objects with high reflectivity (KGC 90%). Measuring distance may vary depending on targets and measuring conditions.

^{2 (3+3} ppm × D) mm -20 °C to -10 °C, +40 °C to +50 °C (-4 °F to +14 °F, +104 °F to +122 °F).

³ Measuring time may vary depending on measuring distance and conditions. For the initial measurement, it may take a few more seconds.

 $^{4 \}quad \text{Battery life specification at 25 °C (77 °F)}. Operation time may be shorter in low temperatures and if the battery is not new.} \\$