SPECTRA PRECISION®

FOCUS® 4 TOTAL STATION

SPECSHEET

PERFORMANCE SPECIFICATIONS

Telescope
- Magnification . . . . . 26× (16×/32× with optional eyepieces)
- Effective diameter of objective . . . . . 40 mm (1.57 in)
- EDM . . . . . 50 mm (1.97 in)
- Field of view . . . . . 1°30'
- Resolving power . . . . . 3"
- Minimum focusing distance . . . . . 1.6 m (5.3 ft)

Distance measurement
- Reflectorless mode (white target)[1] . . . . . 1.6 m to 210 m (5.3 ft to 689 ft)
- Range with Nikon specified prisms
  - Normal conditions[2]
    - With reflector sheet (5 × 5 cm) . . . . 1.6 m to 300 m (5.3 ft to 980 ft)
    - With single prism . . . . . 1.6 m to 5,000 m (5.3 ft to 16,400 ft)
  - Good conditions[3]
    - With reflector sheet (5 × 5 cm) . . . . 1.6 m to 300 m (5.3 ft to 980 ft)
    - With single prism . . . . . 1.6 m to 5,000 m (5.3 ft to 16,400 ft)

Accuracy (Prism/Precise mode) . . . . . ±(3+2 ppm × D) mm
±(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)
±5 mm: 1.6 m to 5/10 m
(5.3 ft to 17.4/32.8 ft) for reflector sheets/prisms

Accuracy (Reflectorless/Precise mode) . . . . . ±(5+2 ppm × D) mm
±(5+3 ppm × D) mm
(–20 °C to –10 °C, +40 °C to +50 °C)
(–4 °F to +14 °F, +104 °F to +122 °F)

Measuring interval[4]
- Prism mode
  - Precise mode . . . . . 1.3 sec. (initial 2.0 sec.)
  - Normal mode . . . . . 0.5 sec. (initial 1.6 sec.)
- Reflectorless mode
  - Precise mode . . . . . 1.6 sec. (initial 2.6 sec.)
  - Normal mode . . . . . 0.8 sec. (initial 2.0 sec.)

Least count
- Precise mode . . . . . 1 mm (0.002 ft)
- Normal mode . . . . . 10 mm (0.02 ft)

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 mmHg to 999 mmHg
  533 hPa to 1,332 hPa
  15.8 inHg to 39.3 inHg

Angle measurement
- Horizontal angle . . . . . Single
- Vertical angle . . . . . Single
- Minimum increment (Degree, Gon, MIL6400) . . . . . Degree: 1/5/10"
  Gon: 0.2/1/2 mgon
  MIL6400: 0.005/0.02/0.05 mil

DIN 18723 accuracy (horizontal and vertical) . . . . . 5"/1.5 mgon

Water protection IPX4

Tilt sensor
- Type . . . . . Single-axis
- Compensation range . . . . . ±3'
- Setting accuracy . . . . . 1"

Level vial
- Plate level vial . . . . . 30"/2 mm
- Circular level vial . . . . . 10'/2 mm

Optical plummet
- Magnification . . . . . 4×

Display . . . . . Graphic LCD (128 × 64 dot); Single side

Point memory . . . . . 10,000 records

Dimensions (W × D × H) . . . . . Approx. 168 mm × 173 mm × 347 mm
(6.6 in × 6.8 in × 13.7 in)

Weight (approx.)
- Main unit (with battery) . . . . . 4.96 kg (10.9 lb)
- Tribrach . . . . . 0.76 kg (1.7 lb)

On-board Ni-MH battery BC-65
- Operation time[5]
  - Continuous distance/angle measurement . . . . . Approx. 6.5 hours
    (Reflectorless mode: 7 hours)
  - Distance/angle measurement every 30 seconds. . . . . Approx. 15 hours
    (Reflectorless mode: 16 hours)
  - Angle measurement . . . . . Approx. 27 hours
    (Prism and Reflectorless modes)

Quick charger . . . . . Approx. 2.0 hours for full recharge

NOTICE TO OUR EUROPEAN UNION CUSTOMERS

For product recycling instructions and more information, please go to www.spectraprecision.com/ev.shtml.

Recycling in Europe:
To recycle Spectra Precision WEEE (Waste Electrical and Electronic Equipment products that run on electrical power), call +31 497 53 24 30, and ask for the "WEEE Associate". Or, mail a request for recycling instructions to: Spectra Precision, c/o Menlo Worldwide Logistics, Meerheide 45, 5521 DZ Eersel, NL.

1 White objects (Kodak Gray 90%) with high reflectivity. Measuring distance may vary depending on targets and measuring conditions.
2 Ordinary haze, visibility approx. 20 km/12.5 miles
3 No haze, visibility over 40 km/25 miles
4 Measuring time may vary depending on measuring distance and conditions.
5 Battery life specification at 25 °C (77 °F). Operation time may be shorter if battery is not new.

Specifications are subject to change without prior notice.

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