

Offering Spectra Precision's fast, reliable and accurate mechanical total station solution; the Spectra Precision® FOCUS® 4 Total Station.

ROBUST TOTAL STATION

The FOCUS 4 Total Station offers clear-to-view quality optics, smart design and superior components your surveying jobs demand. Add to that the onboard field software, and you have a solution that will not let you down.

FAST HARDWORKING TOTAL STATION

The FOCUS 4 is a fast measuring device in both Prism (0.5 s to 2.0 s) and Non Prism (0.8 s to 3.0 s) modes for improving your day to day field operations.

ACCURACY

For most construction and surveying applications the FOCUS 4 Total Station's 7" accuracy is ideal. Coupled with its quality, you can be confident that you are achieving this level of accuracy with every measurement.

RUGGED & RELIABLE

The FOCUS 4's robust construction and long battery life enable it to work as long and hard as you do. On a single battery, the FOCUS 4 provides non-stop distance/angle measurement of 15 hours. It is tough, water-resistant and will continue working no matter what the weather brings.

COMPACT DESIGN

The smart small design of the FOCUS 4 is convenient and portable for all occasions. As a complete system the FOCUS 4 is the perfect tool for take to the field every day.

EASY-TO-USE

The Spectra Precision FOCUS 4 has intuitive, onboard software that is easy to use. It has a large configurable display that makes data management simple. Spectra Precision Field Surveyor software allows you to get your tasks done quickly and efficiently.



FEATURES OF THE FOCUS 4 TOTAL STATION

ACCURATE DISTANCES AND STABLE ANGLES

Use the 7" FOCUS 4 in Prism mode to measure up to 5000 m to 3 mm + 2 ppm accuracy, or use the Non Prism mode to measure to objects up to 100 m away to 3 mm + 2 ppm.

SIMPLE TO LEARN AND USE

The FOCUS 4 provides simple workflows to provide a fast efficient way to measure angles and distances for your basic survey needs.

TOUGH AND RELIABLE

Built tough for use on your every day work site in all degrees of dust, dirt, and weather conditions.

FOCUS 4 TOTAL STATION

PERFORMANCE SPECIFICATIONS

Telescope	
Magnification	26x (16x/32x 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 100 m (5.3 ft to 328 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 (-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 (-20 °C to -10 °C, +40 °C to +50 °C) (-4 °F to +14 °F, +104 °F to +122 °F)
Measuring interval⁴	
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)	7/2 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	.4x
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 time⁵	
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

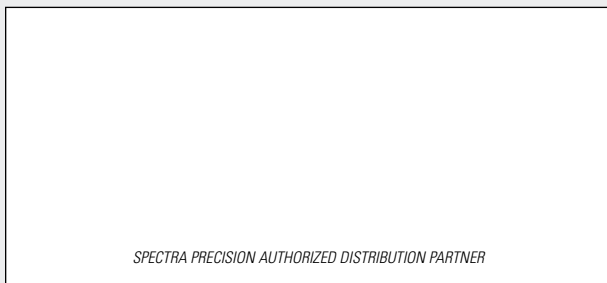
For product recycling instructions and more information, please go to www.spectraprecision.com/ev.shtml.

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.



SPECTRA PRECISION AUTHORIZED DISTRIBUTION PARTNER

Spectra Precision

10355 Westmoor Drive
Suite #100
Westminster, CO 80021
USA
+1-720-587-4700 Phone
888-477-7516 (Toll Free in USA)

www.spectraprecision.com
sales@spectraprecision.com
support@spectraprecision.com

