

Offering Spectra Precision rugged, reliable and user-friendly solutions to solve your everyday measurement needs at a price you can afford. With the Spectra Precision<sup>®</sup> FOCUS<sup>®</sup> 5 Mechanical Total Station on your job site you will improve efficiency and productivity, which leads to increased profits.

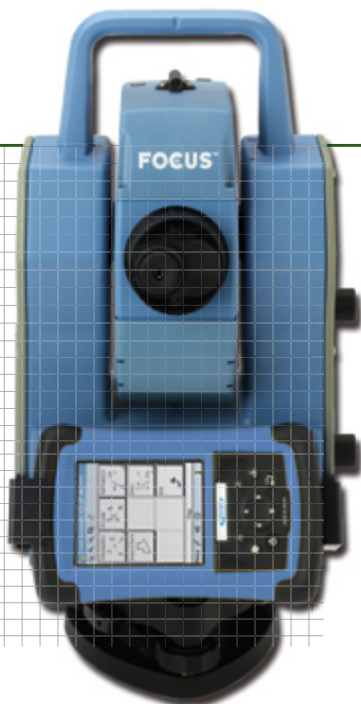
### ACCURATE DISTANCES AND STABLE ANGLES

The FOCUS 5 provides fast, accurate data with integrity you can depend on. A compact, reflectorless EDM gives measurement in just 1 second. Enjoy 0.5 second updates in Tracking mode and 2 second updates in Standard mode for greater productivity every day.

The FOCUS 5 offers highly stable angle accuracies for reliable data resulting in less rework and greater efficiency in the field. High angle stability choices to suit your measurement needs. Choose from either 2" (0.5 mgon) or 3" (1.0 mgon) angle accuracies.

### EASY-TO-USE DISPLAY AND KEYBOARD

The new Spectra Precision<sup>®</sup> Recon<sup>®</sup> data collector provides the FOCUS 5 a touchscreen keyboard and display to access the simple-to-use onboard software. Touchscreen technology also improves data workflow speed to access menus and software modes for fast every day data management. The Windows Mobile<sup>®</sup> Operating system supports a full alphanumeric 'pop-up' keyboard helping users to enter data quickly and accurately. You can even define the instrument's keys to control the functions most important to you—carry out your most frequently performed tasks with the press of just one key.



The large graphic display uses features such as different font sizes, icons, and popup menus to make the onboard software system intuitive and easy to learn for maximum efficiency.

### APPLICATION SOFTWARE

The FOCUS 5 is supported by simple-to-use and easy-to-learn multi-purpose field software. Utilize the onboard software when attached to the FOCUS 5 to reliably measure and save all your topographic and staking data needs, including feature coding. Utilize the Quick Coding technique to collect topographic detail at lightning speed. For your convenience, perform CoGo functions using the field software when attached, or detached, from the instrument.

### BLUETOOTH WIRELESS TECHNOLOGY

The Spectra Precision Recon data collector also supports Bluetooth<sup>®</sup> technology for fast, wireless data transfers. The FOCUS 5 is designed to allow the user to simply remove the data collector from the instrument and avoid the hassle of bringing the entire total station back into the office.

### TOUGH AND RELIABLE

The FOCUS 5 meets IP43-standard, all-weather construction for extreme reliability even on the toughest job sites. The FOCUS 5 gives you a rugged, reliable, and portable surveying solution.

## FEATURES OF THE FOCUS 5 TOTAL STATION

### ACCURATE DISTANCES AND STABLE ANGLES

Choose from either a 2" or 3" model.

### WINDOWS MOBILE INTERFACE

Windows Mobile technology is fast to use and easy to learn. Use standard work practices common to Windows computers to enhance your field data collection, including Pocket Word and Pocket Excel.

### TOUGH AND RELIABLE

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

# FOCUS 5 TOTAL STATION

## PERFORMANCE SPECIFICATIONS

Measurements	
Angle measurement	
Accuracy (Standard deviation based on DIN 18723)	
2" model	2" (0.5 mgons)
3" model	3" (1.0 mgons)
Angle reading (least count)	
Horizontal & vertical	
Standard measurement	1" (0.1 mgon)
Fast Standard	1" (0.1 mgon)
Tracking	1" (0.1 mgon)
Automatic level compensator	
Dual-axis compensator	±6' (±100 mgon)
Distance measurement	
Accuracy (standard deviation)	
Prism	
Standard measurement	±(2 mm + 2 ppm) ±(0.007 ft + 2 ppm)
Fast Standard	±(3 mm + 2 ppm) ±(0.01 ft + 2 ppm)
Tracking	±(5 mm + 2 ppm) ±(0.016 ft + 2 ppm)
Reflective foil	
Standard measurement	±(3 mm + 2 ppm) ±(0.01 ft + 2 ppm)
Fast Standard	±(3 mm + 2 ppm) ±(0.01 ft + 2 ppm)
Tracking	±(5 mm + 2 ppm) ±(0.0016 ft + 2 ppm)
Reflectorless mode	
Standard measurement	±(3 mm + 2 ppm) ±(0.01 ft + 2 ppm)
Fast Standard	±(5 mm + 2 ppm) ±(0.016 ft + 2 ppm)
Tracking	±(10 mm + 2 ppm) ±(0.032 ft + 2 ppm)
Shortest range	
To prism	1.5 m (4.9 ft)
Reflectorless	1.5 m (4.9 ft)
Reflective foil	2.5 m (8.2 ft)
Measuring time	
Prism mode	
Standard measurement	2 s
Fast Standard	1.8 s
Tracking	0.5 s
Reflectorless mode	
Standard measurement	3 s up to 30 m (98.4 ft) +1 s/10 m (32.8 ft)
Fast Standard	2 s up to 30 m (98.4 ft) +1 s/10 m (32.8 ft)
Tracking	0.8 s up to 30 m (98.4 ft) +1 s/10 m (32.8 ft)
Range (under standard clear conditions*)	
Range using prism	
1 prism	3,000 m (9,840 ft)
1 prism Long Range	5,000 m (16,400 ft)
3 prisms	5,000 m (16,400 ft)
3 prisms Long Range	7,500 m (24,600 ft)
Range using reflective foil	
Reflective foil 20 mm	100 m (328 ft)
Reflective foil 20 mm Long Range	200 m (656 ft)
Reflective foil 60 mm	250 m (820 ft)
Reflective foil 60 mm Long Range	800 m (2,625 ft)
Range Reflectorless measurement (typically)	
Kodak Gray Card (18% reflective)**	50 m (164 ft)
Kodak Gray Card (90% reflective)**	70 m (230 ft)

## GENERAL SPECIFICATIONS

Light source	Laserdiod 660 nm
	Laser class 1 in Prism mode
	Laser class 2 Reflectorless
Beam divergence	
Horizontal	0.4 mrad (4 cm/100 m) (0.13 ft/328 ft)
Vertical	0.8 mrad (8 cm/100 m) (0.26 ft/328 ft)
Atmospheric correction	-60 to 195 ppm continuously
Leveling	
Circular level in tribrach	8/2 mm (8'/0.007 ft)
Electronic 2-axis level in the LC-display with a resolution of	6' (2 mgon)
Centering	
Centering system	3-pin
Optical plummet	Optical plummet in tribrach
Magnification	2.4x
Shortest focusing distance	0.5 m (1.6 ft) to infinity
Telescope	
Magnification	26x
Trunnion axis height	205 mm (8.1 in)
Aperture	36 mm (1.42 in)
Field of view at 100 m (328 ft)	2.6 m (8.5 ft)
Shortest focusing distance	1.7 m (5.58 ft) to infinity
Illuminated crosshair	Variable (15 steps)
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Power Supply	
Internal battery	Rechargeable NiMH battery 12 V, 1.8 Ah
External battery	External rechargeable NiMH batteries, 12 V, 3.8-11.4 Ah
Weight	
Instrument with Spectra Precision Recon data collector	6.6 kg (14.6 lb)
Tribrach	0.7 kg (1.5 lb)
Internal battery	0.4 kg (0.9 lb)
Memory	
Spectra Precision Recon data collector	>10,000 points

## NOTICE TO OUR EUROPEAN UNION CUSTOMERS

For product recycling instructions and more information, please go to [www.spectraprecision.com/ev.shtml](http://www.spectraprecision.com/ev.shtml).

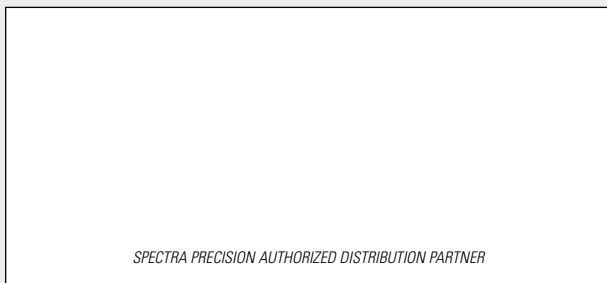
### Recycling in Europe:

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.

\* Standard clear: No haze, overcast or moderate sunlight with very light heat shimmer. Range and accuracy are dependent on atmospheric conditions and background radiation.

\*\* Kodak Gray Card, Catalog number E1527795.

Specifications are subject to change without prior notice.



SPECTRA PRECISION AUTHORIZED DISTRIBUTION PARTNER

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