

FOCUS[®] 2 Total Station

NEW
FOR 2015

DISTANCE MEASUREMENT

Range with specified prisms (Good conditions¹)

Single Prism 2.5m to 4,000m (8.2 ft to 13,123 ft)
Reflectorless ² 500 m (1,640 ft)
Shortest possible range 1.0m (3.3 ft)
Accuracy (Precise mode) ISO 17123-4	
Prism ±(2+2 ppm × D) mm
Reflectorless ⁵ ±(3+2 ppm × D) mm
Measuring interval ³	
Fine 0.3 sec.
Normal 0.2 sec.

ANGLE MEASUREMENT

Accuracy (ISO17123-3)

(horizontal and vertical) 2"/0.6 mgon
5"/1.5 mgon

Reading system Absolute encoder

Circle diameter 79 mm (3.1 in)

Horizontal/Vertical angle Diametrical

Minimum increment

Degree 1/5"

Gon 0.2/1 mgon

MIL6400 0.005/0.02 mil

TELESCOPE

Tube length 154 mm (6.0 in.)

Image Erect

Magnification 30x

Effective diameter of objective 45 mm (1.8 in)

EDM diameter 50 mm (2.0 in)

Field of view 1°20'

Resolving power3"

Minimum focusing distance 1.0 m (3.3 ft)

Laser pointer Coaxial Red Light

TILT SENSOR

Type Dual-axis

Method Liquid-electric detection

Compensation range ±3.0'

COMMUNICATIONS

Communication ports 1 x serial (RS-232C)

Data Interface SD Card, Mini-USB

POWER

Internal NiMH battery (x2)

Output voltage 6.0 V DC

Operating time⁴ approx. 13 hours

Charging time

Full charge 4 hours

GENERAL SPECIFICATIONS

Level vials

Sensitivity of Circular level vial8/2 mm

Sensitivity of Plate level 30"/2mm

Optical plummet

Image Erect

Magnification 3x

Field of view 5°

Focusing range 0.3 m (1.0 ft) to ∞

Display face 1 and face 2 backlit, graphic LCD

160 x 90 pixels

Point memory 10,000 records

Dimensions

(W x D x H) 160mm x 150mm x 340mm
(6.3 in x 5.9 in x 13.4 in)

Weight (approx.) 5.1 kg (11.3 lb)

Battery 0.2 kg (0.5 lb)

Carrying case 3.2 kg (7.0 lb)

ENVIRONMENTAL

Operating 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

Dust and water protection IP55

- 1 Good conditions (good visibility, overcast, twilight, underground, low ambient light).
- 2 Measuring distance may vary depending on targets and measuring conditions.
- 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 or if the battery is not new.
- 5 Accuracy 1.0 m to 5.0 m (3.3 ft to 16.4 ft) is ±8mm



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Please visit www.spectraprecision.com for the latest product information and to locate your nearest distributor. Specifications and descriptions are subject to change without notice.

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