ES series



KIT COMPONENTS



Standard package components

- ES main unit Battery (BDC70)
- · Battery charger (CDC68) · Power Cable
- · Lens cap · Lens hood · Tool pouch · Screwdriver
- . Lens brush . Adjusting pin × 2 . Cleaning cloth
- · Operation manual · USB memory key
- · Laser caution sign-board · Carrying case
- · Carrying strap

*1	IEC60825-1-Ed.2-0:2007/ FDA CDRH 21 CFR Part 1040.10 and 11
*2	Average conditions: Slight haze, visibility about 20km (12 miles), sunny period

- *3 With Kodak Cray Card White Side (90% reflective). When brightness on measured surface is 30,000 bc or less.
 Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions.
- *4 When the measuring beam's incidence angle is within 30° in relation to the
- were use inesturing ceans successe angle a warm sur in resident to the reflective sheet taget.
 Measuing range in tempostures of -350 to -20°C (-22 to -47°) with Lisy Temposture models and 50 to 60°C (122 to 140°) with High Temposture models. RSSONA: 13 to 500m (4.3 to 960%), RSSONA: 13 to 180m (4.3 to 560%), RSIONA: 13 to 500m (4.3 to 1960%).
 Good conditions: No hate, visibility about 40km (25 miles), overcist, no

- *7 Measuring range:0.3 to 200m

 *8 Typical, under good conditions. Reflectorless measurement time may vary according to measuring objects, observation situations and environmental
- *9 Control panel location may vary depending on region or model.
 *10 Usage approval of Bluetooth wireless technology varies according to country.
- Please consult your local office or representative in advance.

 *11 No obstacles, few vehicles or sources of radio emission/vinterference in the near vicinity of the instrument, no rain.

 *12 The leare pointer and the guide light do not work simultaneously.
- Low Temperature models: 30 to 50 °C (-22 to 122 °F) and High Temperature *13 models: 20 to 60 °C (-4 to 140 °F, No direct surflight) are available on built-to-order basis.



TOPCON POSITIONING MIDDLE EAST AND AFRICA FZE

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ES-101 ES-102 ES-103 ES-105 ES-107 Model Magnification / Resolving power 30x / 2.5" Length: 171mm (6.7in.), Objective aperture: 45mm (1.8in.) (48mm (1.9in.) for EDM), Image: Erect, Field of view: 1°30' (26m/1,000m), Minimum focus: 1.3m (4.3ft.), Reticle illumination: 5 brightness levels Angle measurement Dsplay resolution 0.5" / 1" 1" / 5" (0.0002 / 0.001gon, 0.005 / 0.02mil) (0.0001 / 0.0002301 0002/0005ml) Accuracy (ISO 17123-3:2001) Dual-axis compensator / Dual-axis liquid tilt sensor, working range: ±6' (±111mgon) / Callimation compensation Collimation compensation available Distance measurement Reflectorless mode: Class 3R / Prism/sheet mode: Class 1 Laser output * Measuring range 0.3 to 500m(1.0 to 1,640ft.) Reflective sheet ** *: RS90N-K: 1.3 to 500m (4.3 to 1,640ft.), RS50N-K: 1.3 to 300m (4.3 to 980ft.), (under average conditions *1) RS10N-K: 1.3 to 100m (4.3 to 320ft.) Mini prisms 1.3 to 500m (1,640ft.) 1.3 to 4,000m (4.3 to 13,120ft.) / Under good conditions *1: 1.3 to 5,000m (16,400ft.) One prism Three prisms to 5,000m (16,400ft.) / Under good conditions *: to 6,000m (19,680ft.) Fine/Rapid: 0.001m / 0.01ft. / 1/8in. Tracking: 0.01m / 0.1ft. / 1/2in. Display resolution (3 + 2ppm x D) mm * (ISO 17123-4:2001) Reflective sheet ** (3 + 2ppm x D) mm (Omessuring distance in mm) AP/CP prism (2 + 2ppm x D) mm Fine: 0.9s (initial 1.7s), Rapid: 0.7s (initial 1.4s), Tracking: 0.3s (initial 1.4s) Measuring time *1 Interface and Data management Dsplay / Keyboard Graphic LCD, 192 x 80 dots, backlight, contrast adjustment / Alphanumeric keyboard / 25 keys with backlight Control panel location *1 On both faces Trigger key On right instrument support Data storage Internal memory Approx. 10,000 points Plug-in memory device USB flash memory (max. 8GB) Serial RS-232C, USB2.0 (Type A, for USB flash memory) Interface Bluetooth modern (Factory Option) *1 Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 300m (980ft.) *11 General Coaxial red laser using EDM beam Green LED (524nm) and Red LED (626nm), Guide light *: Operating range: 1.3 to 150m (4.3 to 490ft.) Levels Graphic 6'(inner circle) 10' / 2mm Circular level Optical plummet Magnification: 3x, Minimum focus: 0.3m (11.8in.) from tribrach bottom Liser plummet (option) Red laser diode (635nm±10nm), Beam accuracy; ≤ 1.0mm@1.3m, Class 2 laser product Dist and water protection IP66 (IEC 60529:2001) -20 to +50oC (-4 to +122oF) Operating temperature *1 Site with handle *1 Control panel on both faces: W191 x D181 x H348mm (W7.5 x D7.1 x H13.7in.) Control panel on one face: W191 x D174 x H348mm (W7.5 x D6.9 x H13.7in.) Weight with handle and battery Approx. 5.6kg (12.3 lb.) Power supply BDC70 detachable battery | Li-ion rechargeable battery Bittery Approx. 36 hours (single distance measurement every 30 seconds) (20°C) External battery (option) BT-73Q: approx. 89 hours (single distance measurement every 30 seconds)

SPECIFICATIONS

Your local Authorized Topcon dealer is:





Easy Station





A New Classic

- Fast & Powerful EDM
- · LongLink Data Communication*
- · Advanced Angle Accuracy
- The Longest Battery Life 36 Hours!
- · Rugged and User-friendly Design

*Factory Option

The perfect combination of easy operation and powerful features.

