DT-300









Brand new design with laser pointer for efficient alignment setting work!

Lightweight, compact angular measurement with highprecision laser guidance and up to 30 workdays of power

- Long-lasting Li-ion or AA battery life with up to 30 workdays^{*2} of power
- Convenient high-precision laser guidance
- Brand new product design utilizing Topcon premium quality total station components
- Embedded tilt sensor in 5" model
- Ultra-rugged IP66 dust and heavy rain protection

*1 As of May, 2020 checked with Topcon as theodolite *2 In case of measuring angle with DT-309G/DT-309GL for 8 hours per day

DT-300 series

SPECIFICATIONS

| Model | | DT-305 | DT-305L | DT-309G | DT-309GL | |
|--|-----------------------------|--|--------------------------|---|-------------------------|--|
| Telescope | Length | 149 mm | 152 mm | 149 mm | 152 mm | |
| | Aperture | 45 mm | | | | |
| | Magnification | 30X | | | | |
| | Image | Erect | | | | |
| | Field of view | 1°30′ (26 m/1,000 m) | | | | |
| | Resolving power | 2.5" | | | | |
| | Minimum focus | 0.9 m | 1.0 m | 0.9 m | 1.0 m | |
| | Stadia ratio | | 10 | | | |
| | Stadia constant | 0 | | | | |
| Angle measurement | Method | Rotary absolute encoder | | | | |
| | Method | Horizontal: 1 sides | | | | |
| | Detecting | Vertical: 1 sides | | | | |
| | | | | | an/0.05 mil)/ | |
| | Minimum display | 5" (0.001 gon/0.1 mil) (selectable) | | 10" (0.002 gon/0.05 mil)/ 20" (0.005 gon/0.1 mil) (selectable) | | |
| | Accuracy ^{*1} | 5" | | 9" | | |
| Display | Unit | 2 sides | | 1 sides | | |
| ызыал | Туре | Automatic vertical compensator | | | | |
| Tilt angle compensation | Range of compensation | $\pm 3'$ (± 0.0555 gon) | | | | |
| | Range of compensation | ± 3 (± 0.055 g01) Can be changed (compensation is done at the same time with | | | | |
| | Compensation constant | vertical angle 0 point) | | | | |
| Optical plummet | Magnification | 3X | | | | |
| | Minimum focus | 0.5 m | | | | |
| Sensitivity of levels | Circular level | 10' /2 mm | | | | |
| | Plate level | 30"/ 2 mm | | | | |
| Temperature | Operating temperature range | -20 to 50°C (-4 to 122°F)*2 | | | | |
| | Storage temperature range | -30 to 60°C (-22 to 140°F) (no condensation) | | | | |
| Environmental durability | Dust and water protection | IP66 (IEC 60529: 2001) | | | | |
| Power Supply (Standard) | Power source | 4 AA alkaline batteries | | | | |
| Working duration at 20°C (Standard) | Theodolite only | about 230 hours | | | about 250 hours | |
| | Laser only | _ | about 80 hours | _ | about 80 hours | |
| | Theodolite and laser | _ | about 55 hours | _ | about 55 hours | |
| Power Supply (Option) | Power source | BDC71 (Optional accessory) | | | | |
| Working duration at 20°C (Option) | Theodolite only | about 300 hours about 350 hours | | | | |
| | Laser only | _ | about 100 hours | _ | about 100 hours | |
| | Theodolite and laser | _ | about 70 hours | _ | about 70 hours | |
| Tribrach | Туре | Deta | chable | Fix | | |
| Laser-pointer | Signal source | _ | Red laser diode (633 nm) | _ | Red laser diode (633 nm | |
| | Maximum output | | 0.6 mW | _ | 0.6 mW | |
| | Laser Class | | Class 2 | | Class 2 | |
| | | | | | | |
| | Laser beam range | – 50 m (in daylight) | | | 50 m (in daylight) | |
| Others | Size (with handle) | 173 (D) X 181 (W) X 318 (H) mm (Display on both sides) | | 173 (D) X 174 (W) X 318 (H) mm (Display on one side) | | |
| | 14/ ¹ 1/ | 4.1 kg (9.04 lb) | | 4.0 kg (8.82 lb) | | |
| | Weight | (with batteries and battery holder) | | (with batteries and battery holder) | | |

*1: ISO 17123-3: 2001 *2: No direct sunlight for using high temperatures of 50°C (122 °F).

Standard components

• Main unit • DB-80 Battery holder • Lens cap • Tool pouch • Precision screwdriver • Lens brush • Hexagonal wrench (1.3 mm/2 mm/2.5 mm) • Adjusting pin • Wiping cloth • Quick start manual • Carrying case • Carrying strap

Optional accessories

• Plumb bob • Model 13 Diagonal eyepiece • BDC71 Battery • CDC77 Charger



TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, Japan www.topcon.co.jp

<Contact to> Topcon Singapore Positioning Pte. Ltd. 1 Jalan Kilang Timor, #09-01 Pacific Tech Centre, Singapore 159303 Phone: (+65)6778-3456 Fax: (+65)6773-6550 Email: topcon.sg@topcon.com Web : www.topcon.com.sg Specifications may vary by region and are subject to change without notice.
Bluetooth[®] word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Topcon is under license.
Other trademarks and trade names are those of their respective owners.

Your Local Authorized Dealer is:

