Nikon

TOTAL STATION

DTM-352/332

- **Unsurpassed battery life of 16 hours**
- **New EDM offers faster speed and wider distance range**
- **IPx6 waterproof construction**
- **Powerful on-board data recording system**
  - 10,000-record data memory with job manager
  - Powerful feature coding system
  - Powerful and practical on-board survey programs
- **Large graphic display and ergonomic keyboard**
- **Light and compact design**

Specifications

		DTM-352	DTM-332
Telescope	Tube length	158mm/6.22 in.	
	Image	Erect	
	Effective diameter of objective	45mm/1.77 in. (EDM: 50mm/1.97 in.)	
	Magnification	33x (21x/41x with optional eyepieces)	
	Field of view	1°20' (2.3m at 100m/2.3 ft. at 100 ft.)	
	Resolving power	2.5"	
	Minimum focusing distance	1.3m/4.26 ft.	
Distance measurement	Range with Nikon prisms		
	Normal conditions	(Ordinary haze, visibility approx. 20km/12.5 miles)	
	With reflector sheet (5 x 5cm)	5m to 100m/16.4 ft. to 328 ft.	
	With mini prism	1,000m/3,280 ft.	
	With single prism	2,000m/6,560 ft.	
	With triple prism	2,600m/8,530 ft.	
	Good conditions	(No haze, visibility of over 40km/25 miles)	
	With reflector sheet (5 x 5cm)	5m to 100m/16.4 ft. to 328 ft.	
	With mini prism	1,200m/3,930 ft.	
	With single prism	2,300m/7,540 ft.	
	With triple prism	3,000m/9,840 ft.	
Readout display		9999.999m/32808.330 ft.	
Accuracy (Precise mode)		±(3 + 2ppm x D)mm (–10°C to +40°C) ±(3 + 3ppm x D)mm (–20°C to –10°C, +40°C to +50°C)	
Measuring interval	Precise mode	1.6 sec. (initial 1.6 sec.)	
	Normal mode	1.0 sec. (initial 1.4 sec.)	
Least count	Precise mode	1mm/0.002 ft.	
	Normal mode	10mm/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 to 999mmHg/533 to 1,332hPa/15.8 to 39.3 in. Hg	
	Prism offset	–999 to 999	
Angle measurement	Reading system	Photoelectric detection by incremental encoder	
	Horizontal angle	Diametrical	Single side
	Vertical angle	Single side	
	Minimum increment		
	(Degree)	1/5/10"	
	(Gon)	0.2/1/2mgon	
	(MIL6400)	0.005/0.02/0.05mil	
	DIN 18723 accuracy (horizontal and vertical)	5"/1.5mgon	
Tilt sensor	Type	Dual-axis	Single-axis
	Method	Liquid-electric detection	
	Compensation range	±3'	
	Setting accuracy	1"	
Level vial	Plate level vial	30"/2mm	
	Circular level vial	10'/2mm	
Optical plummet	Image	Erect	
	Magnification	3x	
	Field of view	5°	
	Focusing range	0.5m/1.6 ft. to ∞	
Display		Graphic LCD (128 x 64 dot)	
		Both sides	Single side
Point memory		10,000 records	
Dimensions (W x D x H)		173 x 168 x 335mm/6.8 x 6.6 x 13.2 in.	
Weight (approx.)	Main unit (with battery)	5.3kg/11.7 lbs.	
	Battery	0.4kg/0.9 lbs.	
	Carrying case	2.4kg/5.3 lbs.	
On-board Ni-MH battery BC-65	Output voltage	7.2V DC	
	Operation time	Approx. 16 hours (continuous distance/angle measurement)* Approx. 27 hours (distance/angle measurement every 30 seconds) Approx. 30 hours (angle measurement)	
Quick charger Q-75U/E	Recharging time	Approx. 2.0 hours for full recharge	
	Discharging time	Approx. 7.5 hours	
Quick charger Q-70C (12V DC cigarette lighter charger)		Approx. 2.0 hours (fully discharged BC-65 requires more than one charge)	

**At 25°C. Note that this operation time differs depending on the age of the battery.*

ISO 9001 Certified

BVQI ISO 9001 Accredited by the Dutch Council for Accreditation

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