Nikon DTM-362/NPL-362 Total Station

The hardworking total station solution from Nikon

The Nikon 362 Total Station offers the superior optics, intelligent design, and quality components your surveying jobs demand. Add the powerful Nikon onboard software, and you have a total station solution that performs all day, every day.

3" accuracy

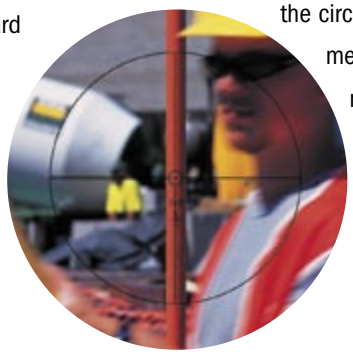
For most construction and surveying applications, the Nikon 362 Total Station's superior 3" accuracy is ideal. And with its quality Nikon construction and reliability, you can be confident that you will achieve this accuracy with every measurement.

Rugged and reliable

The Nikon 362 Series robust construction and long battery life enable it to work as long and as hard as you do. On a single battery, the Nikon DTM-362 provides nonstop distance/angle measurement of 16 hours, or 27 hours of measurements spaced 30 seconds apart. And with its tough water-resistance rating of IPX6, both Nikon 362 models will keep on working whatever the weather.

Easy to use

The Nikon 362 Total Station's onboard software is powerful, but is also intuitive and easy to use. Accessed by a full alphanumeric keyboard and large configurable display, the software makes data management fast and simple. Perform surveying tasks quickly and efficiently, and gain even further productivity as you learn to maximize the total station's capabilities.



Reflectorless EDM for safety and increased productivity

Gain complete confidence in your measurements with Nikon NPL-362 reflectorless technology. This completely eye-safe (Class 1) reflectorless system uses a patented focused beam design to provide positive target identification, and an excellent combination of range and accuracy (up to 200 m/650 ft away). It automatically rejects erratic return signals that are reflected from objects that are out of focus. Simply focus the circular reticle on the target and measure. This unique feature measures to difficult and dangerous locations with confidence.

KEY FEATURES

- 3" accuracy
- Rugged and reliable
- Easy to use
- Powerful onboard software

Nikon

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NPL-362

Telescope
- Magnification . . . . . 26× (16×/32× with optional eyepieces)
- Effective diameter of objective . . . . . 40 mm (1.57 in)
  EDM: 50 mm (1.97 in)
- Field of view . . . . . 1°30'
- Resolving power . . . . . 3"
- Minimum focusing distance . . . . . 1.6 m (5.3 ft)

Distance measurement
- Reflectorless mode (white target)[2] . . . . . 1.6 m to 200 m (5.3 ft to 650 ft)
- Range with Nikon specified prisms
  - Normal conditions[3]
    - With reflector sheet (5 × 5 cm) . . . . . 1.6 m to 300 m (5.3 ft to 980 ft)
    - With single prism . . . . . 1.6 m to 5,000 m (5.3 ft to 16,400 ft)
  - Good conditions[4]
    - With reflector sheet (5 × 5 cm) . . . . . 1.6 m to 300 m (5.3 ft to 980 ft)
    - With single prism . . . . . 1.6 m to 5,000 m (5.3 ft to 16,400 ft)

Accuracy (Prism/Precise mode) . . . . . ±(3+2 ppm × D) mm
±(3+3 ppm × D) mm
(–20 °C to –10 °C, +40 °C to +50 °C)
±5 mm: 1.6 m to 5/10 m
(5.3 ft to 17.4/32.8 ft) for reflector sheets/prisms

Accuracy (Reflectorless/Precise mode) . . . . . ±(5+2 ppm × D) mm
(5+3 ppm × D) mm
(–20 °C to –10 °C, +40 °C to +50 °C)

Measuring interval[5]
- Prism mode
  - Precise mode . . . . . 1.6 sec. (initial 2.6 sec.)
  - Normal mode . . . . . 0.5 sec. (initial 2.2 sec.)
- Reflectorless mode
  - Precise mode . . . . . 1.6 sec. (initial 3.5 sec.)
  - Normal mode . . . . . 0.8 sec. (initial 3.2 sec.)

Least count
- Precise mode . . . . . 1 mm (0.002 ft)
- Normal mode . . . . . 10 mm (0.02 ft)

Weight (approx.)
- Main unit (with battery) . . . . . 5.5 kg (12.1 lb)

On-board Ni-MH battery BC-65
- Operation time[1]
  - Continuous distance/angle measurement . . . . . Approx. 6.5 hours
    (Reflectorless mode: 7 hours)
  - Distance/angle measurement every 30 seconds . . . . . Approx. 15 hours
    (Reflectorless mode: 16 hours)
  - Angle measurement . . . . . Approx. 27 hours
    (Prism and Reflectorless modes)

Quick charger Q-75U/E . . . . . Approx. 2.0 hours for full recharge

Dimensions (W × D × H) . . . . . 168 mm × 173 mm × 347 mm
(6.6 in × 6.8 in × 13.7 in)

DTM-362

Telescope
- Magnification . . . . . 33× (21×/41× with optional eyepieces)
- Effective diameter of objective . . . . . 45 mm (1.77 in)
  EDM: 50 mm (1.97 in)
- Field of view . . . . . 1°20'
- Resolving power . . . . . 2.5"
- Minimum focusing distance . . . . . 1.3 m (4.26 ft)

Distance measurement
- Range with Nikon specified prisms
  - Normal conditions[3]
    - With reflector sheet (5 × 5 cm) . . . . . 5 m to 100 m (16.4 ft to 328 ft)
    - With single prism . . . . . 2,000 m (6,560 ft)
    - With triple prism . . . . . 2,600 m (8,530 ft)
  - Good conditions[4]
    - With reflector sheet (5 × 5 cm) . . . . . 5 m to 100 m (16.4 ft to 328 ft)
    - With single prism . . . . . 2,300 m (7,540 ft)
    - With triple prism . . . . . 3,000 m (9,840 ft)

Accuracy (Prism/Precise mode) . . . . . ±(3+2 ppm × D) mm
±(3+3 ppm × D) mm
(–20 °C to –10 °C, +40 °C to +50 °C)

Measuring interval[5]
- Prism mode
  - Precise mode . . . . . 1.6 sec. (initial 1.6 sec.)
  - Normal mode . . . . . 1.0 sec. (initial 1.4 sec.)

Least count
- Precise mode . . . . . 1 mm (0.002 ft)
- Normal mode . . . . . 10 mm (0.02 ft)

Weight (approx.)
- Main unit (with battery) . . . . . 5.3 kg (11.7 lb)

On-board Ni-MH battery BC-65
- Operation time[1]
  - Continuous distance/angle measurement . . . . . Approx. 16 hours
  - Distance/angle measurement every 30 seconds . . . . . Approx. 27 hours
  - Angle measurement . . . . . Approx. 30 hours

Quick charger Q-75U/E . . . . . Approx. 2.0 hours for full recharge

Dimensions (W × D × H) . . . . . 168 mm × 173 mm × 335 mm
(6.6 in × 6.8 in × 13.2 in)

Shared Specifications

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 mmHg to 999 mmHg/533 hPa to
  1,332 hPa/15.8 inHg to 39.3 inHg

Angle measurement
- Horizontal angle . . . . . Diametrical
- Vertical angle . . . . . Single
- Minimum increment (Degree, Gon, MIL6400) . . . . . Degree: 1/5/10"
  Gon: 0.2/1/2 mgon
  MIL6400: 0.005/0.02/0.05 mil
- DIN 18723 accuracy (horizontal and vertical) . . . . . 3"/1 mgon

Tilt sensor
- Type . . . . . Dual-axis
- Compensation range . . . . . ±3'
- Setting accuracy . . . . . 1"

Level vial
- Plate level vial . . . . . 30"/2 mm
- Circular level vial . . . . . 10'/2 mm

Optical plummet
- Magnification . . . . . 3×

Display . . . . . Both sides, graphic LCD (128 × 64 dot)

Point memory . . . . . 10,000 records

1 Battery life specification at 25 °C. Operation time may be shorter if battery is not new.
2 White objects with high reflectivity. Measuring distance may vary depending on targets and measuring conditions.
3 Ordinary haze, visibility approx. 20 km/12.5 miles.
4 No haze, visibility over 40 km/25 miles.
5 Measuring time may vary depending on measuring distance and conditions.

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer.

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