

SPECIFICATIONS

Telescope

Magnification: 20x (erect)
Length: 130mm
Objective aperture: 30.5mm
Resolution: 4.5"
Field of View: 1°20'
Minimum Focus: 1.0m
Stadia: Multiplication constant = 100
Additive constant = 0

Horizontal Circle

Diameter: 53.4mm
Reading Type: Incremental; Photoelectric
Minimum Reading: 1'

Vertical Circle

Diameter: 53.4mm
Reading Type: Incremental; Photoelectric
Minimum Reading: 1'

Sensitivity of Levels

Plate Level: 90/2mm
Circular Level: 10/2mm

Display

Type: LCD; Segment (H/V)

Optical Plummet

Magnification: 3x (erect)
Image: 7"
Focus Range: 0.5m ~ ∞

Tribrach

Type: Shifting
Range: ±6.0mm

Illumination

Light Source: LED
Power Supply: Internal battery

Power Supply

Type: AA dry batteries x4
Operation time: 20 hrs. (Manganese),
42 hrs. (Alkaline)

Dimensions/Weights

Main Body Dimensions: 124 (W) x 130 (D) x 198 (H) mm
Weight: Approx. 1.8kg
Line of sight: 160mm high
Case Dimensions: 265 (W) x 125 (D) x 234 (H) mm
Case Weight: 870g
Tripod Dimensions: 655mm (collapsed) ~ 1560mm
Tripod Weight: 2.6kg

Other Specifications

Operating Temp. Range: -20°C ~ +50°C
Interface: RS-232C built-in (full duplex)

Designs and specifications are subject to change without prior notice.

CUSTOM LIGHT WEIGHT TRIPOD NO.38



Built-in plummet case

The tripod designed to maximize the benefits of the TEO-100.



- 65.5cm (collapsed)
- 156cm (maximum length)
- 2.6kg (weight)


3-part extension

 Ushikata Mfg. Co., Ltd.

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Compact One-Minute Theodolite

TEO-100

 Good Design Product selected by The Ministry of International Trade and Industry (Japan)



 Ushikata

Compact One-Minute Theodolite
TEO-100

TEO-100
19.8cm tall
1.8kg (without case)

Tripod
65.5cm (Collapsed)
2.6kg

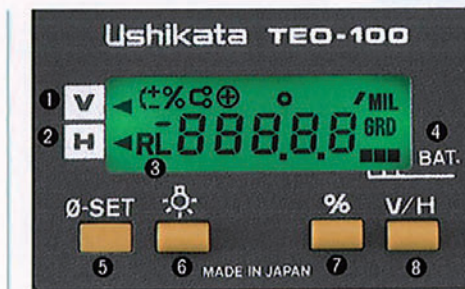


WE BEGAN DESIGNING OUR DIGITAL THEODOLITE WITH ONE RIGID REQUIREMENT:
Absolutely as light and small as possible

Uniquely integrating performance and agility, the TEO-100 makes surveying easier than ever.



The down-sized TEO-100 weighs and measures just half of generally supplied theodolites. Why bother with extra bulk when what you really need is the right instrument for the job? Mountains, forests, farmlands, and general construction and civil engineering work are TEO's fields of specialty.



① Vertical Angle Display ② Horizontal Angle Display
③ Horizontal Angle Right/Left ④ Battery Power Indicator
⑤ Zero Set Key for Horizontal Angles ⑥ Illumination Key ⑦ Tilt Angle % Display Key
⑧ V/H Selection Key

The TEO-100 offers these special features:

HORIZONTAL ANGLE DISPLAY SELECTION

Clockwise, counter-clockwise, and quadrant angle displays are available. The Zero set key sets the horizontal angle to 0° in any direction.

VERTICAL ANGLE DISPLAY SELECTION

Horizontal 0° display, zenith 0° display and Vertical 0°±90° display can be selected. (Internal switch selection)

UNIQUE VERTICAL INDEX/POWER LEVER

The vertical circle is automatically indexed simply by turning the power lever on. The TEO-100 eliminates the necessity of rotating the telescope to carry out the 0-set procedure.

INCREMENTAL 90° INDICATION BUZZER

A buzzer can be set to sound when horizontal angles approach 0°, 90°, 180° and 270°. (Internal switch selection)

ANGLE UNITS

In addition to degree and minute displays, grade (gon) and mil units are readily available. (internal switch selection)

TILT ANGLE % DISPLAY

The Tilt angle key enables the display of vertical angles in percentage of slope.

AUTOMATIC SHUT-OFF FUNCTION

The TEO-100 automatically shuts itself off when left unused for 30 minutes, conserving battery life.



Fully powered with 4 AA-size batteries.

LIGHT CARRYING CASE

The 870g case is crafted entirely of plastic.



Standard equipment: Main unit, case, 4 AA batteries, operation manual

Optional accessories:

- (1) Tubular compass (magnetic needle: 50mm)
- (2) Diagonal eyepiece (for use with Zenith angles)