

# **Digital Theodolite DT-2a**

Applications include:

- Layout (rethinking)
- Horizontal/vertical alignment
- Leveling
- Qualification
- square

## **Angle measurement**

\*Horizontal angle

\*Vertical angle

## **Distance measurement**

Through the line of vision (up/down or left/right) in the telescope to measure the distance between the target and the Instrument. (Precision  $\leq 0.4\%$  d)

## **Laser measurement**

1. Orientation measurement
2. Angle design
3. Zenital measurement
4. Level measurement

## **Technical Index**

## Telescope

Erect image

30 × increase

Effective Opening 47 mm

Resolution Power 3.75 ″

Field of vision 1st 30 ′ (26m/1000m)

Minimum approach ∅

100 Stage Relationship

Visual distance precision  $\leq 0.4 \times d$

162 mm tube length

## Angle measurement

Incremental Measurement Method of Optical Grid Absolute  
encoder/encoder

Circle diameter 79 ∅

Minimum reading 1 ″, 5 ″, 10 ″, 20 ″ selectable

Unit of measure 360 °, 400gon, 6400mil selectable

Vertical angle ∅ ° Zenit ∅ °, horizontal ∅ ° selectable

Precision 2 ″ ∅ 5 ″ ∅ 10 ″ selectable

## Jar

Road plate 30 ″/2mm

Circular road 8 ′/2mm

## Compensator

Liquid-electrical detection system

Compensation range  $\pm 3 ′$

Resolution power ∅ ″

## Optical plumb

Erect image

3 × increase

Approach range 0.3 m ∅ ∞

Field of vision 1°

### **Laser plumb**

Plick Plumbing Laser

Illuminating red laser

Grade II

### **Show**

LCD type 1 four lines 1 digital

### **Data communication**

RS-232C port

### **Battery on board**

Ni-H rechargeable battery source

CC6 voltage

BDC 1800 MAH operating time (about 10 hours)

### **Laser**

Wavelength 635nm

10MW power

Effective range (during the day) 150 m

Position error with your sight  $\leq 5''$

DC3.3v power

Working temperature 10 °C ~ 45 °C

### **Operating environment**

Operating temperature 20 °C ~ 45 °C

### **Size and weight**

Dimension 180 mm × 166 mm × 355 mm

Weight 6.5 kg

### **packing list**

Instrument	1 PC
Battery	2 pieces
Recharger	1 PC
Optical plumb (only for optical plumb instruments)	1 PC
Take of tools	1 PC
Transport case	1 PC
Operator Manual	1 PC

Do not hesitate to contact us if you are interested in this product.

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