

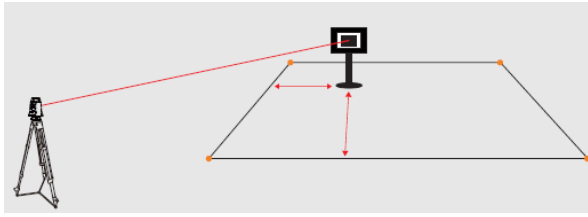
Disteo 23

More than a theodolite.



2" Angle Accuracy
300m Distance Range with Prism
Laser Pointer
Distance/Axes Stake-out
Alphanumeric Keyboard

Stake-out



Setting out the axes is the primary task for construction. You can choose the relative axes to stake out based on the points' position. With this powerful program, Disteo 23 helps you to find the setting out point precisely in an easier way.



300m distance measurement with Prism, with 3mm+2ppm distance accuracy.



2.7 inches LCD Screen with Alphanumeric keyboard.

Main Menu

```

Ang Dist Axis
VA : 252° 24' 28"
HL : 329° 20' 07"
θSet HSet U% R/L
    
```

```

Ang Dist Axis
UD : -0.271 m
HD : 6.353 m
SD : 6.359 m
Meas S.O. Mode
    
```

```

Ang Dist Axis
Meas Close to 0
H Diff: -0° 00' 01"
+↑ /-↓ :
+L /-R :
Dist SwPt
    
```

```

Ang Dist Axis
Set on A,Aim Axes
Point B θSet
HA 30° 39' 51"
θSet Next
    
```

```

(Menu)
F1.QuickSet
F2.Set
F3.Cal.
F4.Info
    
```

```

(Dist.Set)
Target :Prism
PrismCons -30 mm
MeasMode:N Times
Times :1 Time
Back OK
    
```

```

(Unit)
Angle : dms
Distance : m
Temp : °C
Pressure:hPa
Back OK
    
```

```

(PPM)
Temp: 20.0 °C
Pres: 1013.2hPa
PPM : 0.0
Back OK
    
```

Specification

Distance Measurement

- Range: 300m
- Accuracy: $\pm(3\text{mm}+2\text{ppm}\cdot D)$
- Measure Time: Continuous: 0.35s, Fine: 1.5s
- Atmosphere Correction: Manual input, auto correct.
- Prism Constant: Manual input, auto correct.

Angle Measurement

- Type: Absolute Encoding
- Min. Reading: 1"
- Accuracy: 2"
- Detection Method: Horizontal: Dual; Vertical: Dual

Telescope

- Image: Erect
- Magnification: 30x
- Effective Aperture: 40mm
- Resolving Power: 3"
- Field of View: 1°30'
- Min. Focus: 1.5m
- Stadia Accuracy: $\leq 0.40\%/L$
- Tube Length: 155mm

Compensator

- Type: Single Axis
- Working Range: 3'
- Accuracy: 3"

Vial

- Plate Vial: 30"/2mm
- Circular Vial: 8'/2mm

Laser Tube

- Wave Length: $635\pm 20\text{nm}$
- Class II Laser
- Spot Diameter: $\leq 5\text{mm}/100\text{m}$
- Axis Error: $\leq 10''$

Laser Plummet

- Accuracy: 31.5mm
- Spot Diameter: 32.5mm
- Length: $635\pm 20\text{nm}$
- Class II Laser

Display Unit

- 2.7 inches, 160x96 dot
- 4 lines display

Power Supply

- Battery: Li-ion Rechargeable
- Voltage: 7.4V
- Working Hrs: 8 hrs

Environment

- Working Range: -20°C - +50°C

Dimension

- Size: 165*160*340mm
- Weight: 4.7kg



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