

SPECIFICATIONS

| R10 | | | |
|-----------------------------------|---------------|----------|-------------------------------------|
| Distance Measurement | | | |
| Max.Range | Single prism | | 5.0km |
| | Reflectorless | | 1000m |
| | Reflector | | 1.0km |
| ※Object in shade, or sky overcast | | | |
| Accuracy | Reflectorless | Fine | $\pm(3+2\text{ppm}\times D)$ mm |
| | | IR sheet | $\pm(1+1\text{ppm}\times D)$ mm |
| | Reflector | Fine | $\pm(1+1\text{ppm}\times D)$ mm |
| Reading | | | Max:99999999.9999m Min:0.1mm |
| Measuring Time | Reflectorless | | Fine Mode:<0.3s;Tracking Mode:<0.1s |
| Atmospheric Correction | | | Manual Input, Auto Correction |
| Prism Constant | | | Manual Input, Auto Correction |
| Temperature Sensor | | | Freecale Sensor |
| Angle Measurement | | | |
| Measuring Method | | | Absolute Continuous |
| Dia. of Encoder Disk | | | 79mm |
| Minimum Reading | | | 0.1" |
| Accuracy | | | 1" / 5" |
| Detection Method | | | Horizontal: Dual, Vertical: Dual |
| Telescope | | | |
| Image | | | Erect |
| Tube Length | | | 154mm |
| Effective Aperture | | | 45mm,(EDM:50mm) |
| Magnification | | | 30x |
| Field of View | | | 1° 30' |
| Minimum Focus Distance | | | 1m |
| Resolving Power | | | 3" |
| Auto Compensator | | | |
| System | | | Dual Axis Liquid-electric |
| Working Range | | | $\pm 3'$ |
| Accuracy | | | 1" |
| Vial | | | |
| Plate Vial | | | 30"/ 2mm |
| Circular Vial | | | 8/ 2mm |
| Optical Plummet | | | |
| Image | | | Erect |
| Magnification | | | 3x |
| Focusing Range | | | 1m - ∞ |
| Field of View | | | 5° |
| On-Board Battery | | | |
| Type | | | Rechargeable Ni-H Battery |
| Voltage | | | DC 6V |
| Continuous Operation Time | | | 8 hrs |
| Others | | | |
| Temperature | | | -20 ~ +50C |
| Dimension and Weight | | | 200x180x350mm, 6.0kg |
| Plummet | | | Optical or Laser Plummet Optional |
| Bluetooth | | | Optional |

ACCESSORIES



TK21T

TK25T

Single Prism System



Dia.: 25.4mm
Offset: -17.5/-7.5mm

Mini Pole: 30cm×4, φ 10mm

Mini Prism System ADSmini112A



ATS-1(Aluminum) ATS-2(Wooden)

Prism Pole & Prism System ADS107

dealer info

SOUTH
Target your success

R10

TOTAL STATION



SOUTH
Target your success

SOUTH SURVEYING & MAPPING INSTRUMENT CO.,LTD.

E-mail: mail@southsurvey.com export@southsurvey.com imexp@southsurvey.com euoffice@southsurvey.com
http://www.southsurvey.com http://www.southinstrument.com



WWW.SOUTHSURVEY.COM
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ATTRACTIONS



Sharp Screen

3.5" true color highlighted screen, 240x320 dot matrix, transfective and designed for clear reading in strong sunlight condition.



Dual-axis Compensation

International standard dual-axis compensator configured for auto error elimination and auto accuracy compensation, with vivid graphic electronic bubble display.



Laser Pointing

Equipped with laser pointing function, easier to target at the objects, or even served as a laser pointer for orientation.



Smart T-P Sensor

Facilitated with a Temperature-Pressure Sensor, manual parameter input shall be replaced by automatic correction.



Ultrafast Measurement

Fine mode 0.3" , track mode 0.2" .



Laser Plummet

Direct laser plumbing on the benchmark helps with an easier setup of station point.

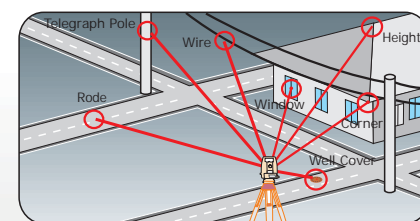
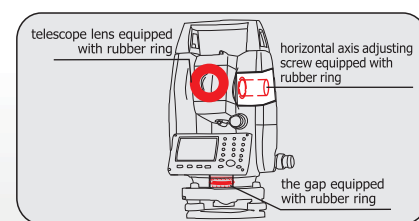
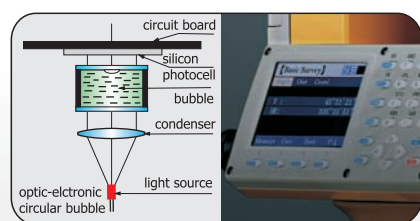
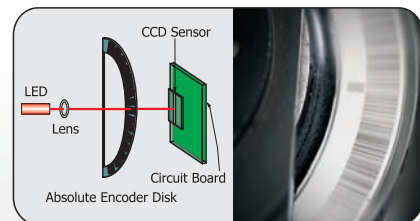


Storage Options

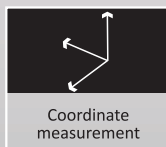
A variety of data transfer options for diverse needs, eg. SD card, USB pen drive, mini-B interface.



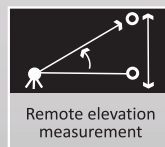
Bluetooth Optional



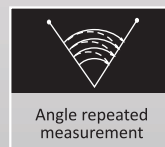
PROGRAMS



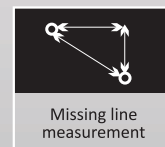
Coordinate measurement



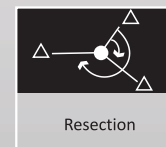
Remote elevation measurement



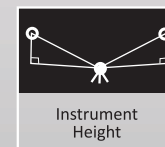
Angle repeated measurement



Missing line measurement



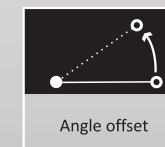
Resection



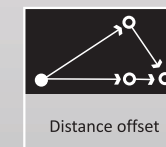
Instrument Height



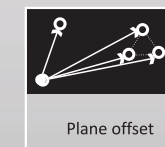
Road Design Customization



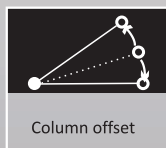
Angle offset



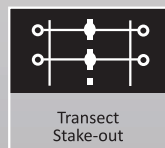
Distance offset



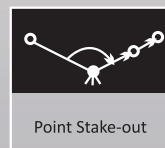
Plane offset



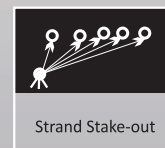
Column offset



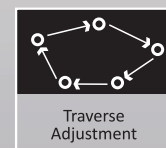
Transect Stake-out



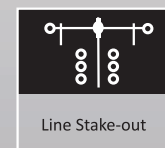
Point Stake-out



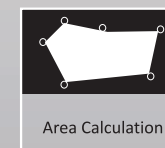
Strand Stake-out



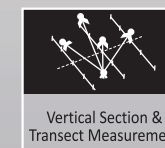
Traverse Adjustment



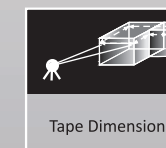
Line Stake-out



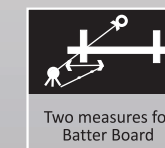
Area Calculation



Vertical Section & Transect Measurement



Tape Dimension



Two measures for Batter Board

R10 TOTAL STATION

