

SPECIFICATION

| | KTS-442RC | KTS-445RC | KTS-442L | KTS-445L |
|-----------------------------------------|-----------------------------------------------------------------|-----------|----------------|----------|
| Measuring Range | | | | |
| 1P | 5.0km | | | |
| 3P | 8-10 km | | | |
| Mini prism | | | | |
| Non prism | 800m | | | |
| Digital Display | Maximum: 99999999.9999 Minimum: 0.1mm | | | |
| Accuracy | With prism: 2mm+2ppm Without Prism: 5mm+3ppm(only on 442/445RC) | | | |
| Measuring Time | Fine 1.0s Tracking 0.5s | | | |
| Atmospheric Correction | Automatic Correction by Inputting Parameter | | | |
| Prism Constant | Automatic Correction by Inputting Parameter | | | |
| Angle Measurement | | | | |
| Measurement Method | Absolute Encoding | | | |
| Diameter of The Raster Disk | 79mm | | | |
| Minimum Reading | 1" / 5" Optional | | | |
| Accuracy | 2" | 5" | 2" | 5" |
| Detection Method | Horizontal: Dual | | Vertical: Dual | |
| Telescope | | | | |
| Image | Erect | | | |
| Length | 154mm | | | |
| Effective Aperture | 45mm. (DTM: 50mm) | | | |
| Magnification | 30 X | | | |
| Field of View | 1° 30' | | | |
| Resolving Power | 3" | | | |
| Minimum Focus | 1m | | | |
| Compensation | | | | |
| System | Dual axis liquid-electric | | | |
| Working Range | ± 3' | | | |
| Resolving Power | 1" | | | |
| Sensitivity of Vials | | | | |
| Plate Vial | 30" / 2mm | | | |
| Circular Vial | 8" / 2mm | | | |
| Optical Plummet | | | | |
| Image | Erect | | | |
| Magnification | 3 X | | | |
| Focusing Range | 0.5m~ ∞ | | | |
| Field of View | 5° | | | |
| Laser Plummet | | | | |
| | Available with 442RLC, 445RLC, 442LL, 445LL | | | |
| Data Storage & Communication | | | | |
| Internal Memory | 2M/24000 points | | | |
| External Memory | SD card (up to 2G), only available with 442RC/445RC | | | |
| Communication Port | RS-232, mini USB | | | |
| Display | | | | |
| Type | Dual sides, 6 lines | | | |
| Battery | | | | |
| Power Supply | Rechargeable Ni-H battery | | | |
| Voltage | 6 V DC | | | |
| Operation Time | 10 hours | | | |
| Dimension & Weight | | | | |
| Dimension | 160mm×150mm×330mm | | | |
| Weight | 5.8 kg | | | |
| Environmental Specification | | | | |
| Dust/Water (IEC60529) | IP55 | | | |
| Working Temperature Range | -20°C~50°C | | | |
| Humidity | 95%, non-condensing | | | |

STANDARD CONFIGURATION



1. Mainframe 1x
2. Rechargeable Battery 2x
3. Battery Charger 1x
4. Communication Cable 1x
5. Mini USB Cable 1x
6. SD Card 1x
7. Tools Kit 1x
8. Dryer 1x
9. Plummet 1x
10. Carrying Case 1x
11. Operation Manual 1x
12. Software CD 1x
13. Warranty Card 1x
14. QC Pass Certificate 1x
15. Rain Cover 1x
16. Belt for Case 2x

USB Communication Cables



KE-203

Battery and Charger



KB-20C

KC-20

EU/US/JP/UK/UL Type chargers available

COMPATIBLE ACCESSORIES (Optional)



Solar Filter
KF-20

Diagonal Eyepiece
KDE20



Best choice, Brightest price

KOLIDA

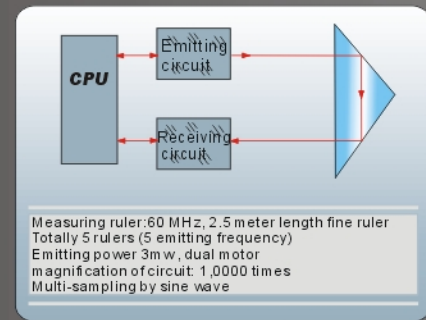
KTS-440RC/L Series Total Station

KOLIDA
KOLIDA INSTRUMENT

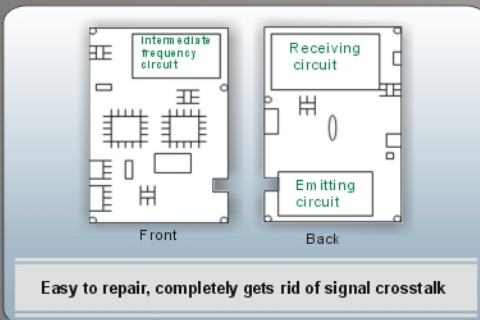
GUANGDONG KOLIDA INSTRUMENT CO., LTD.

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Tel: +86-20-85542075 Fax: +86-20-85542136
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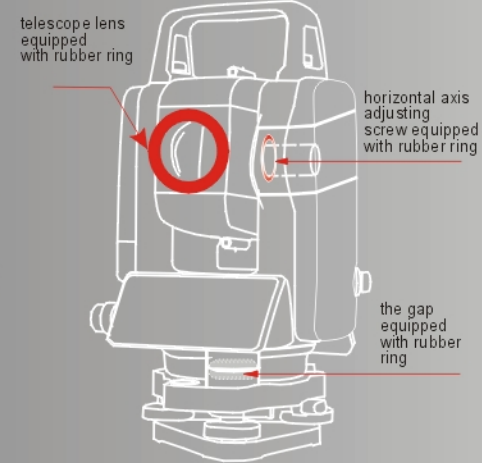
Circuit Diagram



All in one board, World Class Technology

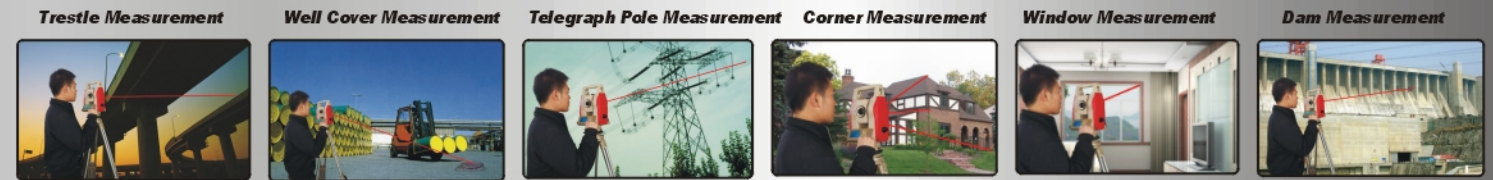


Rubber Circle for Waterproof



Rubber Circle in most positions IP55 Class

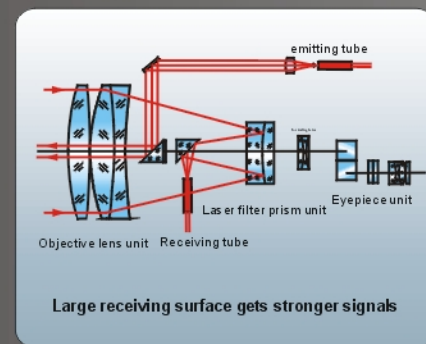
APPLICATION OF KTS-440RC



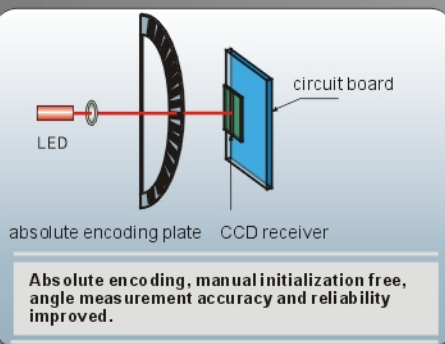
COMPARISON OF KTS-440LIR AND KTS-440RC

| | 440L | 440RC |
|---------------------------------------------|-------------------------------------|---------------------------------------------------------------------------|
| Laser Type | Infrared Laser | Visible Laser |
| Distance Measurement Range (Maximum) | 5,000m by 1 prism | 350m reflectorless 5,000m by 1 prism |
| Compensation System | Dual Axis | Dual Axis |
| Memory Storage | Internal memory 2MB (24,000 points) | External memory SD card (up to 2G) Internal memory 2MB (24,000 points) |

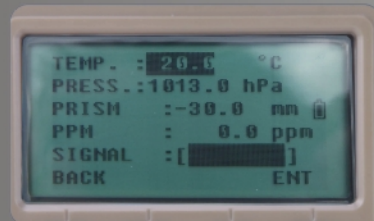
Laser Path Diagram



Angle measurement by Absolute Encoding Disc

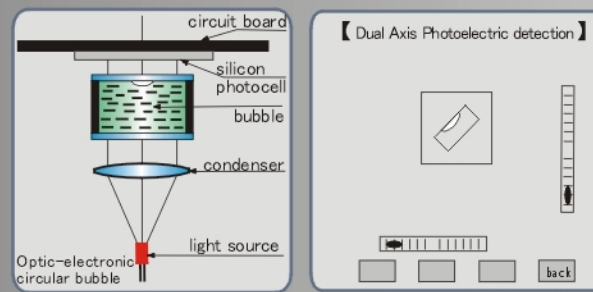


Six-line display and convenient management



Convenient Management on Internal Memory. Huge capacity of internal memory enables you to easily complement file system management, including adding, deleting, modifying and transferring data.

Dual axis compensation



SD card storage and Mini USB port

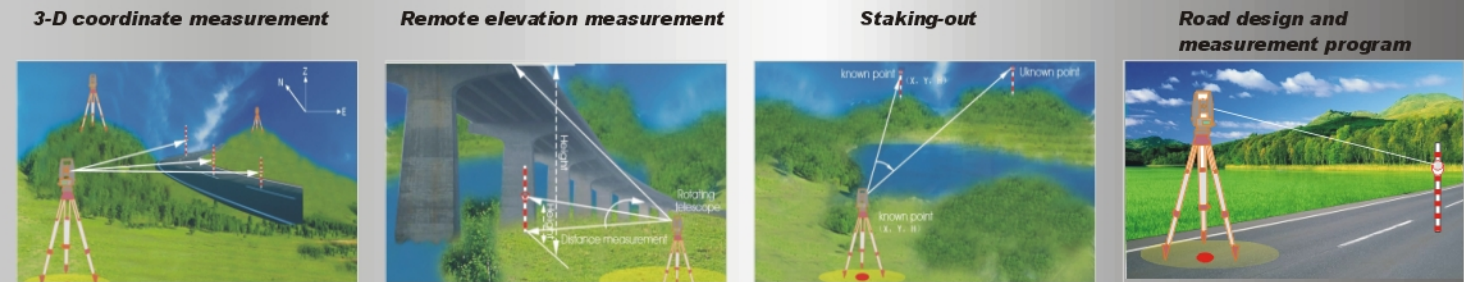
USB Flash/SD card memory enables user to manage massive working data and resources. Never hurry to take your machine back to office, just keep your flash card or SD card in pocket!



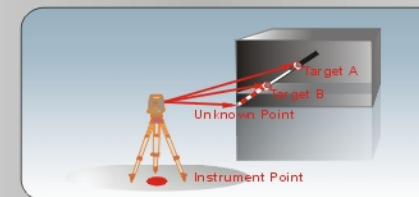
Laser plummet



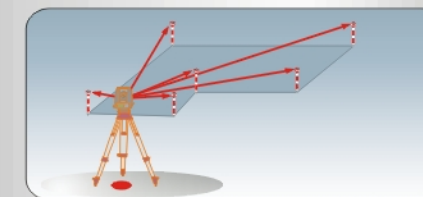
ABUNDANT ADD-IN PROGRAM



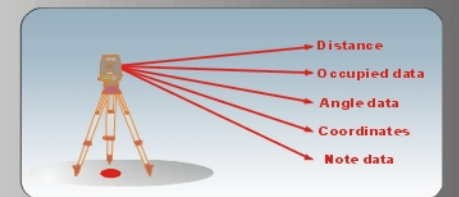
Two-distance offset measurement



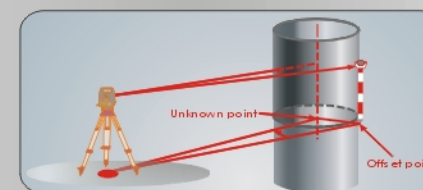
Area Calculation



Data Storage



Angle offset



Angle recalculation



Dual-distance offset

