












SPECIFICATION

	KTS-442R6LC	KTS-445R6LC	KTS-442LLC
Measuring Range			
1P	5.0km		
3P	8-10 km		
Mini prism	800m		
Non prism	600m	600m	N/A
Digital Display	Maximum: 99999999.9999 Minimum: 0.1mm		
Accuracy	with prism 2mm+2ppm, without prism 3mm+2ppm		
Measuring Time	Tracking 0.1s, Fine 0.3s (optional)		
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"
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 / Laser Plummet			
Image	Erect		
Magnification	3×		
Focusing Range	0.5m~ ∞		
Field of View	5°		
Data Storage & Communication			
Internal Memory	2M/24000 points		
External Memory	SD card (up to 32G)		
Communication Port	RS-232, mini USB		
Display			
Type	Dual sides, 6 lines		
Battery			
Power Supply	Rechargeable Ni-H battery (2700 mAh)		
Voltage	6 V DC		
Operation Time	16 hours distance mode / 24 hours Angle mode.		
Dimension & Weight			
Dimension	160mm×150mm×330mm		
Weight	5.8 kg		
Environmental Specification			
Dust/Water (IEC60529)	IP56		
Working Temperature Range	-20℃~50℃		
Humidity	95%, non-condensing		

STANDARD CONFIGURATION



1. Mainframe

2. Rechargeable Battery

3. Battery Charger & Adapter

4. Communication Cable KE-203

5. SD Card

6. Tools Kit

7. Dryer

8. Plummet

9. Carrying Case

10. Operation Manual

11. Software CD

12. Warranty Card

13. QC Pass Certificate

14. Rain Cover

15. Belt for Case

1x

1x

1x

1x

1x

1x

1x

1x

1x

1x

1x

1x


1x

1x

2x



KB-45



KC-20

EU/US/JP/UK/UL

Type chargers available

COMPATIBLE ACCESSORIES (Optional)



Solar Filter
KF-20



Diagonal Eyepiece
KDE20



Best choice, Brightest price



KTS-440 Series
Reflectorless Total Stations

KTS-442R6LC / KTS-445R6LC / KTS-442LLC

- 600m Reflectorless Range
- Fast and Powerful EDM
- Advanced Angle Accuracy
- Various Communication Interface
- Rugged and Waterproof Design



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E-mail: export@kolidainstrument.com <http://www.kolidainstrument.com>

KTS-442R6LC Reflectorless Total Stations

KOLIDA's new 440 Series Total stations
New Advanced Design with Improved Technology

The new KTS-440 series was designed to deliver the latest technology to surveyors worldwide, you will appreciate the technical improvement and advantages from the beginning of working with this equipment.

Featuring an ultra-powerful EDM, the KTS-442R6LC is able to measure up to 600m without reflector at an incredible 3mm+2ppm accuracy, and in prism mode it is able to measure up to 5,000m with single prism.

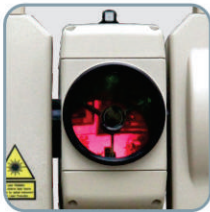
Measurements are captured faster than ever: 0.1 second in tracking mode and 0.3 second in find mode. The bright red laser dot pinpoints are also featured.

Improved Optics System

442R6LC is equipped with a newly-designed objective lens, now it has better tightness to resist adhesion failure, the water proof/ wind proof ability is also greatly increased.

The new receiving lens provides higher brightness in view field, a bigger signal-receiving area, increased the utilization rate of EDM signal. The measuring accuracy under sunshine/ foggy condition has been greatly improved.

A new coating technology was applied on Porro Prisms, now the laser (class II) became softer than before. It is safer for surveyors' eyes.



Ultra-Powerful, Advanced EDM

- 600m Non-prism range
- 5000m prism range
- 0.1-0.3 second measurement time
- Coaxial red laser pointer
- Improved performance under foggy condition



Various Communication Interface

- Up to 2GB SD card storage
- Mini USB port
- RS-232 Serial port
- Environmentally protected



Advanced Angle Encoder System

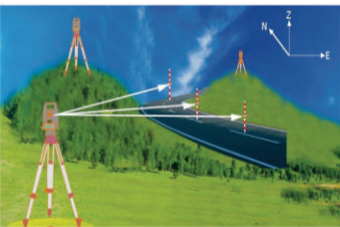
- 2" angle accuracy available
- Improved 4-ccd sensor design
- Self-calibration
- Proven high accuracy technology



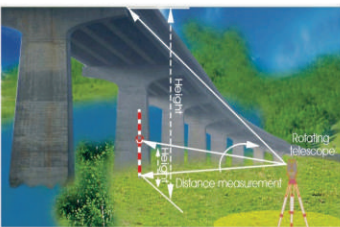
Rugged, Waterproof Design

- Waterproof/ dust proof IP56 protection level
- Atmosphere/ Temperature sensor
- Stable angle accuracy
- Alphanumeric keyboard with backlight

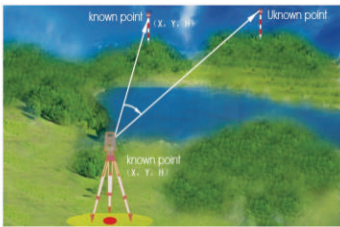
Built in Surveying Programs



3-D coordinate measurement



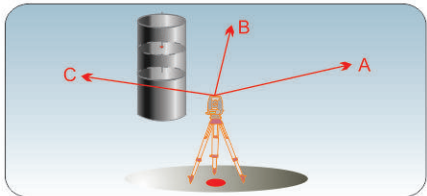
Remote Elevation



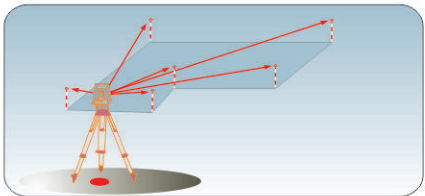
Setout



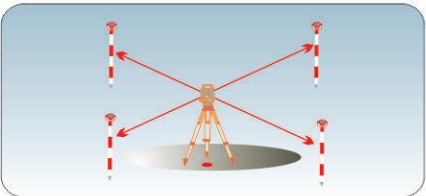
Road design



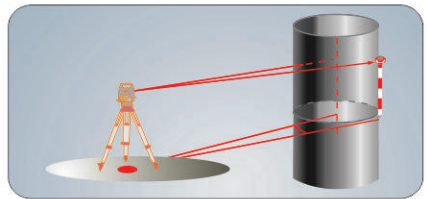
Missing Line



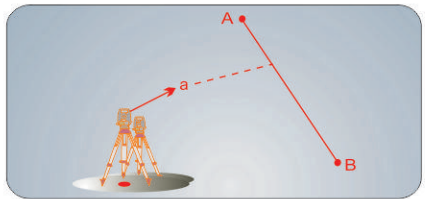
Area Calculation



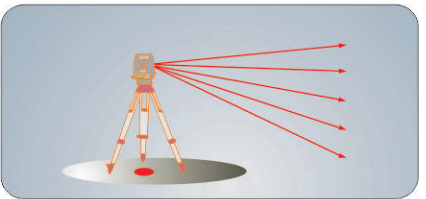
Resection



Offset measurement



Point to Line (base line)



Point Projection

- Maximum Coordinate acceptance facility, up to 12 digits.
- Alpha Numeric keyboard.
- Data down loading / uploading
- Built in Programs: Area calculation, point to line measurement, resections, REM, MLM, Road Design and stake out etc

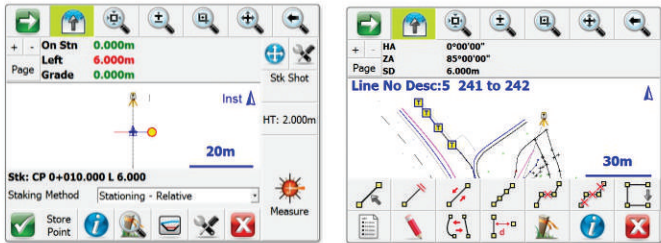
3rd Party Software Supported (need extra Data Collector)



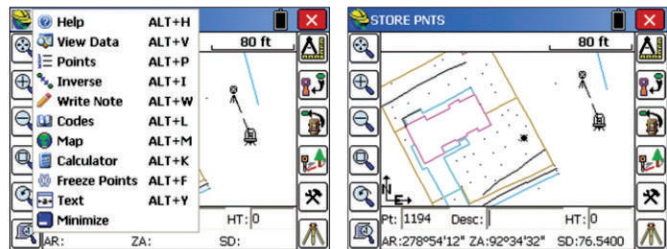
Users can freely setup KOLIDA Total Station in Field Genius menu by taking full advantage of it.

Powerful display helps to complete the project fast using mobile controller.

MicroSurvey Field Genius has abundant Total Station COGO program and survey mode. The display screen is designed for intuition and standard customized icon is easy to get access to connection and edit.



SurvCE can collect KOLIDA Total Station measurement graphically shown on SurvCE map. A rectangle can be finished by three points using computed rectangle command. Powerful desktop software allow users to code the coding styles defined by themselves just like Field Genius. Freely switch from GNSS mode to TS connection mode.



Comparison of KTS Series Total Stations

	442LLC	442R6LC	462R10L	472R10LC
Laser Type	Infrared Laser	Visible Laser		
Range	5,000m by 1 prism	600m non-prism 5000m by 1 prism	1000m non-prism 5000m by 1 prism	
Laser Pointer	N/A	Yes		
Operation System	DOS			Windows CE 6.0
Built-in Memory	2MB (24000 points)		4MB (48000 points)	128MB DDR 512MB NandFlash
SD Card	Up to 32GB			
Atmosphere/ Temperature Correction	Manual		Automatic	
Bluetooth	N/A		Optional	
Battery	2700mAH		3100mAH	