SPECIFICATION

	KTS-462R10L	
Distance Measurement		
Max.Range	Single prism	5.0km
	Reflectorless	1000m
	Reflector	1000m
※Object in shade, or sky overcast		
Accuracy	Reflectorless Fine	$\pm(3+2ppm\times D)$ mm
	Reflector Fine	$\pm(2+2ppm\times D)$ mm
	IR sheet	$\pm(2+2ppm\times D)$ mm
Reading		Max:99999999.9999m Min:0.1mm
Measuring Time	Reflectorless	Fine Mode 0.3s; Tracking Mode 0.1s
Atmospheric Correction		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		2″
Detection Method		Horizontal: Dual, Vertical: Dual
Telescope		
Image		Erect
Tube Length		154mm
Effective Aperture		48mm
Magnification		30x
Field of View		1° 30′
Minimum Focus Distance		1m
Resolving Power		3″
Auto Compensator		
System		Dual Axis Liquid-electric
Working Range		$\pm4′$
Accuracy		1″
Vial		
Plate Vial		30"/ 2mm
Circular Vial		8/ 2mm
Laser Plummet		Yes
On-Board Battery		
Type		Rechargeable lithium Battery (3100 mAH)
Voltage		DC7.4V
Continuous Operation Time		8 hrs
Others		
Temperature		-20 ~ +50C
Dimension and Weight		200x190x350mm, 6.0kg
Optical Plummet		Optical Plummet Optional
Bluetooth		Optional

STANDARD CONFIGURATION

1. Mainframe	1x
2. Rechargeable Battery	2x
3. Battery Charger & Adapeter	1x
4. Communication Cable KE-203	1x
5. SD Card	1x
6. Tools Kit	1x
7. Dryer	1x
8. Plummet	1x
9. Carrying Case	1x
10. Operation Manual	1x
11. Software CD	1x
12. Warranty Card	1x
13. QC Pass Certificate	1x
14. Rain Cover	1x
15. Belt for Case	2x

Battery and Charger

KB-20C
EU/US/JP/UK/UL

KC-20
Type chargers available

COMPATIBLE ACCESSORIES (Optional)

Solar Filter
KF-20

Diagonal Eyepiece
KDE20

KOLIDA

KTS-462R10L Series
Reflectorless Total Stations

- 1000m Reflectorless Range
- Fast and Powerful EDM
- Ultra-clear Color Screen
- Bluetooth Technology
- Advanced Angle Accuracy
- Rugged and Waterproof Design

KOLIDA
KOLIDA INSTRUMENT

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KTS-462R10L Reflectorless Total Stations

**KOLIDA's new 460 Series Total stations
New Advanced Design with Improved Technology**

The new KTS-462 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-462 is able to measure up to 1000m 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.

New Screen and New Program

A large and bright new screen is onboard now. User can see more information from the display and the visibility under sunshine is greatly improved. The backlight for screen display and keyboard also helps you to work precisely in the night.

Surveying programs were redesigned based on KTS-440 series. Now more settings information, icons are showed in measurement display. You can switch settings faster by pressing hotkey (star). Programs are also running faster and more stable when compared with previous models.

Ultra-Powerful, Advanced EDM

- 1000m 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 4GB 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
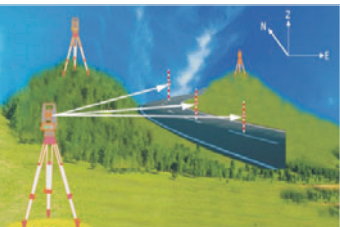
Rugged, Waterproof Design

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

■ New Functionalities

Bluetooth (optional feature)

Bluetooth communication functionality now is an optional feature for KTS-462R10LC. By the Bluetooth wireless link, you can easily connect your data collector with total station without cable. This technology brings total flexibility to you field operation.
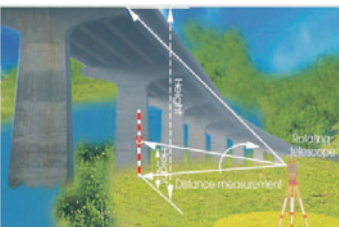
Data Backup

Every time you power off total station, KTS-462R10LC will ask you to make a backup for your daily working result. You just choose OK, all data in internal memory will be copied into SD card and saved by date/time. This "Black Box" program improves the security of data. Even the machine internal memory get damaged by accident, you still can get data back from Backup Disk.
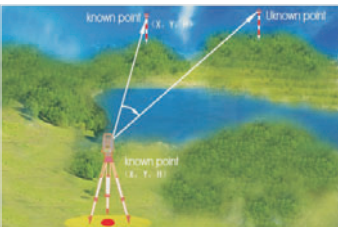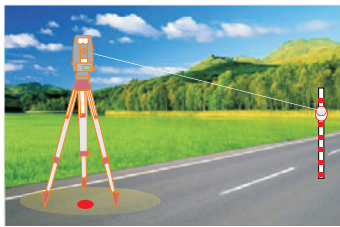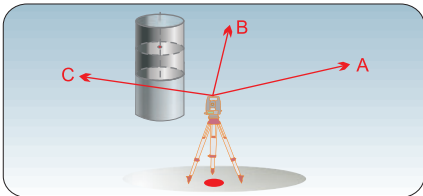
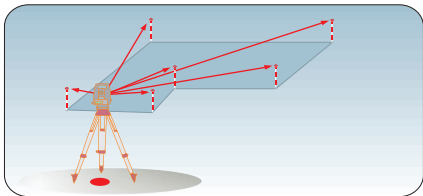## ■ Abundant Add-in Program

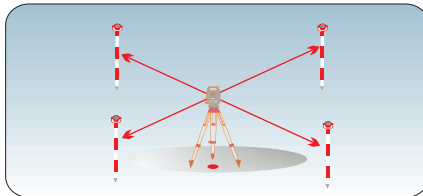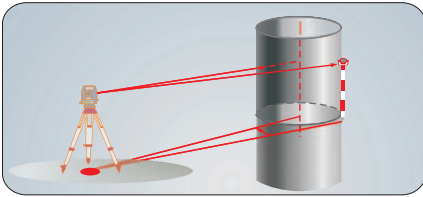3-D coordinate measurement   Remote Elevation   Setout   Road design
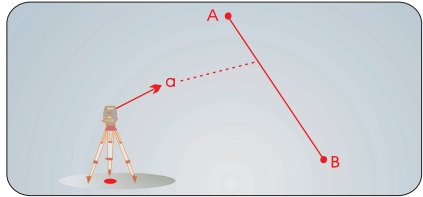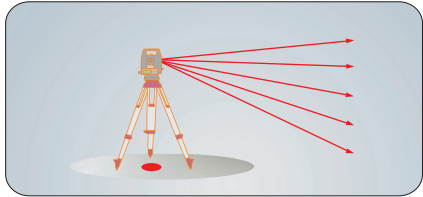
Missing Line   Area Calculation   Resection

Offset measurement   Point to Line (base line)   Point Projection

■ 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	