

## SPECIFICATIONS

KTS-442UT	
<b>Measuring Range</b>	
1P	5.0km
3P	8-10 km
Non prism	1000m (1500m optional)
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 (optimal)
Atmospheric Correction	Automatic Correction by Inputting Parameter
Prism Constant	Automatic Correction by Inputting Parameter
<b>Angle Measurement</b>	
Measurement Method	Absolute Encoding
Diameter of The Raster Disk	79mm
Minimum Reading	1 " / 5 " Optional
Accuracy	2 "
Detection Method	Horizontal: Four Sensors Vertical: Four Sensors
<b>Telescope</b>	
Image	Erect
Length	154mm
Effective Aperture	45mm (DTM 50mm)
Magnification	30 X
Field of View	1° 30'
Resolving Power	3 "
Minimum Focus	1m
<b>Compensation</b>	
System	Dual axis liquid-electric
Working Range	±3'
Resolving Power	1 "
Sensitivity of Vials	
Plate Vial	30 " /2mm
Circular Vial	8' /2mm
Laser Plummet	Yes
<b>Data Storage and Communication</b>	
Internal Memory	12MB (up to 100,000 points)
External Memory	USB Flash Disk (up to 256 GB)
Communication Port	USB, Bluetooth
<b>Display</b>	
Type	Dual sides, 6 lines, black and white
<b>Battery</b>	
Power Supply	Rechargeable battery (3100mAH)
Voltage	7.4V DC
Operation Time	10 hours
<b>Dimension and Weight</b>	
Dimension	160mm×150mm×330mm
Weight	5.7 kg
<b>Environmental Specification</b>	
Dust/Water (IEC60529)	IP66
Working Temperature Range	-20°C~50°C
Humidity	95%, non-condensing

## KTS-442UT

The High Performance  
Total Station with Great  
Reliability, Flexibility and Economy



# Kolida's Vision and Mission:

Delivering more values to global users by providing sustaining innovation and uncompromising quality



Welcome to Kolida Instrument, a fusion of passionate people, continuously innovated technology, services, as well as 25 years experience of manufacturing total station.

Every year more than 12,000 customers choose to purchase Kolida total stations. To ensure our instruments meet the high precision and quality requirement of global users, we manufacture them in state-of-the-art facilities around China.

We recognize certain employees as Master Craftspersons, exceptionally skilled people who take charge of manufacturing the parts of products that require extremely high precision and quality. Their Fast, accurate work creates uniform products of superb quality.

In addition to introducing the latest manufacturing facilities and technologies, we are shortening manufacturing lead times and reducing costs by reviewing production processes and innovating Procurement, to offer you a good instrument as affordable as possible.

You demand, our mission.



# Seven Major Improvements To lift your capability and productivity

## TECHNOLOGIES

- 1500m**  
1000/1500m Reflectorless
- Speed**  
Ultra Fast Measurement
- Co-axial Laser Beam**
- LA**  
Ultra Low-noise Amplifier
- Noise Phase Analysis**
- 150HMZ**  
Carrier Frequency
- Bluetooth**
- USB Flash Memory**
- Dual Axis Compensation**
- Laser Plummet**
- Laser Pointing**
- IP66**

## PROGRAMS

- REM**
- Resection**
- Road Design**
- Column Offset**
- Plane Offset**
- Distance Offset**
- Area Cal.**
- MLM**
- P/L SO**



Video and Article: <http://www.kolidainstrument.com/product/details/id/81.html>