

## SPECIFICATIONS

KTS-552R10	
Measuring Range	
1P	5.0km
3P	8-10 km
Non prism	1000m
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
Angle Measurement	
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
Telescope	
Image	Erect
Length	154mm
Effective Aperture	45mm (EDM 50mm)
Magnification	30 X
Field of View	1° 30'
Resolving Power	3 "
Minimum Focus	1.2m
Reticle	Illuminated, 4 Brightness Level
Compensation	
System	Dual axis liquid-electric
Working Range	±4'
Resolving Power	1 "
Sensitivity of Vials	
Plate Vial	30 " /2mm
Circular Vial	8' /2mm
Laser Plummet (Default)	
Type	Laser Point, 4 Brightness Level
Accuracy	±1.5mm at 1.5M Instrument Height
Wavelength	630-670nm
Laser Class	Class 2 /IEC60825-1
Laser Power	<0.4mW
Optical Plummet (Optional)	
Image	Erect
Magnification	3x
Focusing Range	0.5m
Field of View	5"
Accuracy	±1.5mm at 1.5M Instrument Height
System Config	
Operating System	Android 11
Processor	MT6753, 8 Cores, 1.5 GHz
Internal Memory	RAM: 4 GB; ROM: 64 GB (Store more than 30M points)
Communication	
Interfaces	- Micro Sim Card Slot - USB Type C (OTG) - TF Card
Network	2G 900/1800 3G 2100/900 CDMA BC0 TDSCDMA A/F 4G LTE band1/3/7/38/39/40/41 Bluetooth 4.0
Bluetooth	Dual-Band Single Stream 802.11 a/b/g/n RF for Data Link
WLAN	Available
Microphone / Speaker	Available
Data format	CSV, DXF, ASCII, etc
Display	
Type	5.5", Graphic, Color Touch Screen 1280 * 720, Dual Faces
Battery	
Type	Lithium-ion, 7.4V, 3100 mAh, two pieces
Operating Time	18 Hours
Dimension	
Size	200mm*170mm*350mm
Weight	5.7kgs
Environmental	
Temperature Range (Operation)	-20°C~50°C
Protection	IP66

# KTS-552R10

The High Performance  
Total Station with Greater  
Efficiency, Connectivity and Productivity



- Android 11 O.S
- Up to 1000m Reflectorless EDM
- Large High-resolution Display
- Cable-free Connection by Bluetooth, wifi, GSM
- Intuitive On-board Software - Survey Star

**KOLIDA**  
Professional's Choice



# Kolida's Vision and Mission:

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



## Powerful

The Kolida KTS-552 total station provides a reliable and efficient solution to users who need to work faster, measure and stakeout more points. Equipped with a 8-cores 1.5 GHz CPU, 4 + 64 GB memory, the system works much smoother and calculate much faster than old generation equipment, it also performs better when importing large size base map or design files.

## Intuitive and Dependable

With the 5.5 inches, 1280 \* 720, high clarity touch screen, KTS- 552 can turn complex data numbers into realistic graphic displays.

Import CAD file and setout from basemap, more intuitive and less error happens.

More information and buttons can be displayed in one screen, the better visuality makes workflow easier and shorter.

## Simple and Upgradable

KTS-552 is powered by Android OS, easy to learn, combined with Kolida SurveyStar field software, it offers a simple and productive way of working.

Moreover, user can develop and install their own application into the system, to meet their special work demand.

## Connect Office and Field



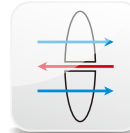





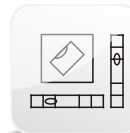



4G and wifi technology brings a greater connectivity to KTS-552, user can choose a convenient way to transmit data file to office or download data file (for example online map) from internet at any time any where.

With internet connection, user can get online update to Kolida SurveyStar APP and continuously increase functions and productivity.

# Seven Major Improvements

To lift your capability and productivity

## TECHNOLOGIES

 1000m Reflectless	 Ultra Fast Measurement	 Co-axial Laser Beam
 Ultra Low- noise Amplifier	 Noise Phase Analysis	 Carrier Frequency
 4G, wifi Bluetooth	 USB Type-C	 Dual Axis Compensation
 Laser Plummet	 Laser Pointing	 IP66

## PROGRAMS

### Station:

Known Pt, Resection, Point to Line, Free Station...

### Collect:

Point Collect, Distance Offset, Plane Offset, Column Offset, REM, Line & Point, Line & Angle...

### Stakeout:

CAD Stakeout, Point Setout, Reference Line, Line Setout...

### COGO:

Reduction, XYZ Calc., Inverse, Area & Girth, Dist. Conversation, Angle Conversation, Average, Triangle Calc., Calculator...

**Video and Article:** <http://www.kolidainstrument.com/news/details/id/121.html>

