

Telescope

Magnification	30X
Length	154mm
Field of View	1°30'
Minimum Focus	1.2m

Angle measurement

Measurement Method	Absolute Encoding
Diameter of the Raster Disk	79mm
Minimum Reading	0.1"/1" Optional
Accuracy	0.5"/1" Optional
Detection Method	Horizontal: 4 sensors Vertical: 4 Sensors
Compensation	Dual Axis liquid-electric

Distance Measurement (One-man mode)

Measuring range (single prism)	5000m
Measuring range (Sheet 60x60mm)	1000m
Accuracy	$\pm(1\text{mm}+1\times 10^{-6}D)$ // ISO17123-4 $\pm(0.8\text{mm}+1\times 10^{-6}D)$
Measuring time	Fine: 0.3s, Tracking: 0.1s

Distance Measurement

Accuracy (Non-prism)	$\pm(2\text{mm}+2\times 10^{-6}D)$
Measuring time	0.3-3s

Motorization

Motor Type	DC Servo Motor
Rotate speed	60°/s
Rotation Time F1/F2	2.9s

Auto Prism Recognition

Range	3-300m (Standard Prism)
Positioning Accuracy	$\pm 2\text{mm}$
Time	3-5s
Range	$\pm 1.5^\circ$
Field of View	9'

Prism Search

Working range	1.5-300m (Standard Prism)
Searching time	Typical 90°:3.5s
Searching view	$\pm 18^\circ$

Other Specification

Operating System	Android 11
Memory	RAM:4GB,ROM:64GB
Keys	Power key, numeric, Function keys
I/O port	USB-Type C, TF card, SIM card: Micro-SIM, RS232, external power
Screen	5.5 inch, 720*1280 TFT screen
Mic / Speaker	Support
Data Transfer	5G, Bluetooth, WiFi, USB-OTG
Remote control	ZigBee, up to 450m
Weight / Size	7kg (Including battery) 、217mm*198mm*378mm

*Good weather: cloudy, light wind, no fog, visibility about 40km, D is the measured distance, measured in millimeters.

* The technical parameters of our products are subject to the actual product. If there is any upgrade, there will be no notification separately.

KTS-591

0.5" / 1"

Robotic Total Station



KOLIDA