

SPECIFICATIONS

		KTS-491
Distance Measurement		
Max.Range	Single Prism	5.0km
	Reflectorless	1000m
	Reflector Sheet	2.0km
※Object in shade, or sky overcast		
Accuracy	Single Prism	(1+1ppm×D) mm
	Reflectorless	(3+2ppm×D) mm
	Reflector Sheet	(2+2ppm×D) mm
Reading		Max:99999999.9999m Min:0.1mm
Measuring Time	Reflectorless	Fine Mode:<0.3s; Tracking Mode:<0.1s
Atmospheric Correction		Auto Input, Auto Correction
Prism Constant		Manual Input, Auto Correction
Temperature Sensor		Auto Input, Auto Correction
Angle Measurement		
Measuring Method		Absolute Continuous
Dia. of Encoder Disk		79mm
Minimum Reading		0.1"
Accuracy		1"
Detection Method		Horizontal: Dual, Vertical: Dual
OS and Hardware platform		
Operate System		Windows CE 6.0
Display		3.5 inch. 640x480 Highlighted Touch Screen
Data Communication		RS232, Mini USB, SD Card
Processor		Intel PXA310 806MHZ
Memory		128M DDR, 512M NAND Flash
Bluetooth		30M range. Class 2, V2.0+EDR
WiFi		Yes
Power Control Processor		Auto Adjust Voltage and Frequency, Save energy
Telescope		
Image		Erect
Tube Length		154mm
Effective Aperture		45mm,(EDM:50mm)
Magnification		30x
Field of View		1° 30'
Minimum Focus Distance		1m
Resolving Power		3"
Auto Compensator		
System		Dual Axis Liquid-electric
Working Range		±3'
Accuracy		1"
Vial		
Plate Vial		30" / 2mm
Circular Vial		8/ 2mm
Optical Plummet		
Image		Erect
Magnification		3x
Focusing Range		1m - ∞
Field of View		5°
On-Board Battery		
Type		Rechargeable Li-ion Battery
Voltage		DC 6V
Continuous Operation Time		10 hrs
Others		
Temperature		-20℃ ~ +50℃
Dimension and Weight		200x190x350mm, 6.0kg
Plummet		Laser Plummet (Optical Plummet Optional)

STANDARD CONFIGURATION



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

Battery and Charger



EU/US/JP/UK/UL Type chargers available

COMPATIBLE ACCESSORIES



Solar Filter
KF-20

Diagonal Eyepiece
KDE20



KOLIDA
Professional's Choice

1" Angle Accuracy
1000m Reflectorless Measurement



KTS-491

WinCE TOTAL STATION

KOLIDA
Professional's Choice

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KTS-491 WinCE Total Stations

KOLIDA's new KTS-491 Total stations New Advanced Design with Improved Technology

KTS-491 is 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-491 is able to measure up to 1,000m 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 fine mode. The bright red laser dot pinpoints are also featured.

New Touch Screen and New Program

The 3.5 inch touch screen makes operation much easier. Its 640* 480 high resolution with true color highlighted quality highly improves the visibility under sunshine, and backlight function also provides more continence for night operation.

KOLIDA developed Mapping Genius and Engineering Genius as free mapping software for KTS-491. Its Windows CE 6.0 operation system also supports Carlson SurvCE, MicroSurvey Field Genius and other third party software to provide a complete field-to-office solution for various demands of survey works.



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

- USB Flash Disk (through OTG cable)
- Up to 32GB SD card storage
- Mini USB port
- RS-232 serial port
- Environmentally protected



Windows CE 6.0 operation system

- KOLIDA Mapping Genius
- KOLIDA Engineering Genius
- Carlson SurvCE (optional)
- MicroSurvey Field Genius (optional)



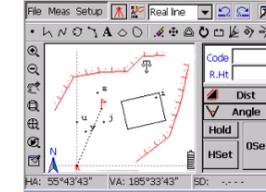
Rugged, Waterproof Design

- Waterproof/ dust proof IP55 protection
- Atmosphere/ Temperature sensor
- Stable angle accuracy
- Alphanumeric keyboard with backlight

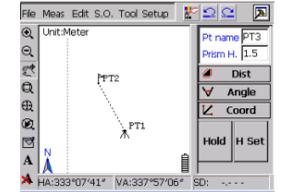
Abundant Software

Mapping Genius

Mapping Genius is an integrated software for field data collection and mapping. With the advantages of laptop, data collector, PDA, it realizes the integration of indoor and outdoor works.



Mapping Genius



Engineering Genius

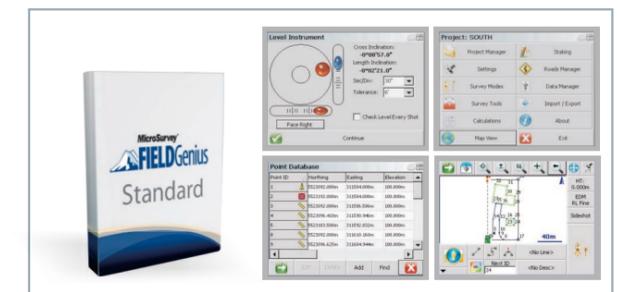
Engineering Genius

Engineering Genius is especially designed for construction measurement works. It brings user data collection/ calculation and mapping programs which can be applied in various works.

Carlson SurvCE (Optional)



MicroSurvey FieldGenius (Optional)



New Functionalities

Bluetooth

Bluetooth communication is available for KTS-491. 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.



WIFI

KTS-491 is equipped with WIFI module, and support WIFI function. You can easily surf the Internet and communicate with other mobile phones or computers with WIFI .



1000m Reflectless	Ultra Low-noise Amplifier	Carrier Frequency	Noise Phase Analysis	HD Display	Co-axial Laser Beam	Ultra Fast Measurement	Dual Compensation	T/P Sensor
4-probe Encoding	IP55	Windows CE 6.0	Laser Plummet	Laser Pointing	Wireless Transfer	Bluetooth Link	SD Storage	USB Interface

Comparison of KTS Series Total Stations

	442LLC	442R6LC	462R10L	491
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	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	Yes
Battery	2700mAH		3100mAH	