

## SPECIFICATIONS

	Arc 9	Arc 7L	Arc 7
<b>Distance Measurement</b>			
Sistema EDM	Laser Class 3R <sup>①</sup>		
	Wave length: 650 - 690 nm. 150MHz Frequency		
Alcance de medição	Single Prism <sup>②</sup>	3500m	5000m
	Reflective Sheet <sup>③</sup>	1000m	2000m
	Reflectorless <sup>④</sup>	1000m	2000m
	Single Prism	±(1+1ppm×D)mm	±(2+2ppm×D)mm
Acurácia/Precisão	Reflective Sheet	±(3+2ppm×D)mm	
	Reflectorless	±(3+2ppm×D)mm <sup>⑤</sup>	
	Prism	Tracking<0.1s, Fine<0.3s	
Tempo de medição	Sheet	<0.3s	
	Reflectorless	0.3-3s <sup>⑥</sup>	
Atmospheric Correction	Manual Input, Auto Correction		
Prism Constant	Manual Input		
Dist. Unit	Meter/US.Feet/International Feet/Feet-inch optional		
Minimum Distance Reading	0.1mm /1mm		
Laser Pointer	Coaxial Red Light		
<b>Reading</b>			
Measuring Time	Fine Mode <0.3s; Tracking Mode <0.1s		
Quick Trigger	optional		
Atmospheric Correction	Auto Correction		
Prism Constant	Manual Input		
<b>Angle Measurement</b>			
Measurement Method	Absolute Encoding		
Diameter of Absolute Encoding Disk	79mm		
Minimum Reading	0.1" or 1" option		
Accuracy	1"	2"	2"
Detection Method	Horizontal: 4 path, Vertical: 4 path		
<b>Telescope</b>			
Image	Erect		
Effective Aperture	48mm (EDM 50mm)		
Magnification	30 X /3"		
Field of View	1° 30'		
Minimum Focusing Distance	1.4m		
<b>Automatic Compensator</b>			
System	Dual-Axis Liquid-electric Sensor Compensation		
Working Range	±4"		
Accuracy	1"		
<b>Sensitivity of Vial</b>			
Plate Vial	30" /2mm		
Circular Vial	10" /2mm		
<b>Laser Plummet (Default)</b>			
Accuracy	±1.5mm (in 1.5m InsHt)		
Wave Length	630nm - 670nm		
Laser Power	≤0.4mW		
<b>Optical Plummet (Option)</b>			
Image	Erect		
Magnification	3 X		
Focusing Range	0.5m - ∞		
Field of View	5°		
<b>General</b>			
Operate System	Windows CE 6.0		
Processor	Intel PXA310 624Mhz		
Memory	128M DDR, 512M NAND Flash		
Display	3.5inches LCD Touch Screen 640*480dpi		
Communication	RS-232, Mini USB, USB OTG, SD card		
	Bluetooth V2.0+EDR, 10m range		
	WiFi 802.11		
Battery /Voltage	Rechargeable Lithium Battery (x3) / 7.4V DC		
Job / Code	40 / 60		
Operation Time	10 hours		
Environment	-20℃ ~ ±50℃		
IP Standard	IP65		
Dimension and Weight	196×192×360mm, 6.2kg		

## STANDARD PACKING LIST

Main unit	1x
Lens cover	1x
Battery holder	1x
Battery LB-01	2x
Tools pouch	1x
Plummet	1x
SD card	1x
Y type cable	1x
Manual	1x
Warranty card	1x
Charger LC-01	1x
Reflective sheet	1x
Carry case	1x
Belt	2x
Mini USB cable	1x

①EN60825-1: 2007 ②Good conditions: No haze, visibility about 40km. Overcast, no scintillation ③ Good conditions. With Koda gray card white side (90%) reflective. sheet size 60\*60mm. 400m under good conditions with koda gray card grey side (18%). ④With Kodak gray card white side (90%) reflective. Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions ⑤Range less than 200m. When 200m to 500m, 5+2ppm and measurement time maximum less than 10 second ⑥Typical, under good conditions. Range less than 500m. It also depend on object surface. Maximum less than 10s

## OPTIONAL ACCESSORIES



ATS-2 Wooden Tripod  
NLS-15 Prism Pole  
TK21T Prism Set

# SANDING

## Arc9/Arc7 SERIES TOTAL STATION

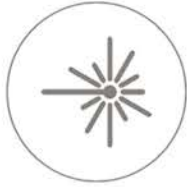


# SANDING

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Microsoft  
**Windows CE**  
MicroSurvey  
**FIELDGenius**

## FEATURES



800/1000/2000m reflectorless measuring range covers a most common scale in your field job. With a single prism, you can reach up to 5km quickly with 1mm + 1ppm accuracy.



The dual-axis tilt compensator monitors the inclination of both X and Y axes, and then correct the horizontal and vertical angle reading automatically with a stile scale of 3'.



3.5" high definition color touch screen and 2 sides of alpha-numeric keyboards provides clear images and convenient operation even under strong sunlight.



Arc 7 Series adopts an absolute encoding system, which does not require initialization by 0 set, and delivers a precise and stable angle measurement with up to 2" accuracy.



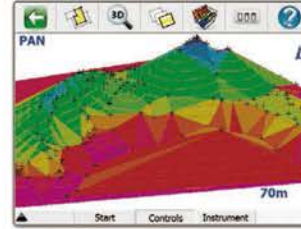
Arc 7 Series provides various options for data transfer such as SD card, USB and RS232 serial port.



T-P Sensors allows user to detect the surrounding temperature and air pressure hence correct the atmospheric error for distance measurement.



*FieldGenius* includes more advanced features than any other data collection system, as well as various productivity enhancements which allows you to work faster and more efficient in the field.



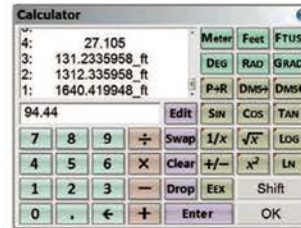
### Digital Terrain Modeling, Volumes, and Contouring

*FieldGenius* has the ability to utilize DTM surfaces from existing survey data or create a DTM in real time as the data is collected. The TIN and contours will automatically update as each new shot is taken.



### Georeferenced Images

Use georeferenced images and maps to visualize data in the background of your survey work.



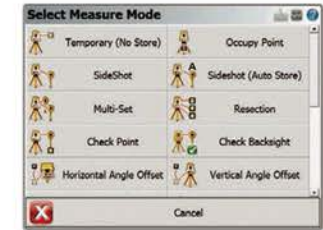
### Powerful RPN Calculator

*FieldGenius* includes an easy-to-use and intuitive RPN calculator. Quick access to the calculator from any edit field makes survey calculations and routines a breeze.



### Powerful Roding

*FieldGenius* roading allows you to manually input or import your alignment data including centerline, vertical and template data. Powerful alignment staking tools help you stake your points along your alignment with confidence.



### Instrument Control at your Fingertips

Total Station and GPS functions are available on a common and easy-to-use instrument toolbar. Access measure modes with the click of a button.



### User Definable Shortcuts

Increase your productivity by assigning frequently used commands to keys on your data collector.