SPECIFICATION

	RTS-102R10	RTS-101R10	
TELESCOPE			
Length	154mm		
Objective Lens Diameter	Telescope: 45mm EDM: 50mm		
Magnification	30X		
Objective aperture		48mm	
Image	Erect		
Field of View	1°30'		
Resolving Power	3"		
Mini. Focus			
DISTANCE MEASUREMEN	1m		
Single Prism	5000m		
Non-Prism			
Accuracy -Prism Mode		m.s.e.*3	
-Non-Prism M	t. d.		
-11011-1113111 10	1-100iii:±(2iiiiii+2ppiii x D)iii.s.e. 3; 100-		
Management Times	D)m.s.e.3;600m-1000m:±(5mm+3ppm		
Measuring Time	Fine: 0.3s, Tracking		
Atmospheric Correction	T-P Sensor, Auto Detect		
Prism Constant	Manual Input, Auto C	orrection	
ANGLE MEASUREMENT	ALL · E	diaa	
Method	Absolute Enco		
Detecting System	H: 2 sides, V: 2 s		
Min. Reading	0.1", 1", 0.5" selectable		
Accuracy	2"	1"	
Diameter of Circle	79mm		
Vertical Angle 0°		Zenith 0°/Horizontal: 0°	
Unit	360°/400gon/6	5400mil	
DISPLAY			
Size	3.5", 640*48	0	
No.of Display	Color TFT LCD touch screen with LED bac	cklit alphanumeric keyboard	
Distance resolution	n Fine/Rapid: 0.001m		
	Tracking: 0.01	m	
Keyboard	Alphanumeri	С	
TILT CORRECTION	Quadruple Ax	is	
Tilt Sensor (t	wo-axis compensation combined with Hz collim		
Method	Liquid Electri	С	
Range	±6'		
Setting unit	1"		
LEVEL SENSITIVITY			
Plate Level	30"/2mm		
Circular Level	8'/2mm		
OPTICAL PLUMMET (OPT			
	TONAL: INTERNAL LASER PLUMMET)		
	TONAL: INTERNAL LASER PLUMMET) Erect		
Image			
Image Magnification	Erect		
Image Magnification Focusing Range	Erect 3X 0.5m~∞		
Image Magnification Focusing Range Field of View	Erect 3X 0.5m ~ ∞ 5°	height upto 3m	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme	Erect 3X 0.5m ~ ∞ 5°	height upto 3m	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System	Erect 3X 0.5m ~ ∞ 5° 1.5mm at 1.5m instrument		
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System	Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7.	0	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock	Erect 3X 0.5m ~ ∞ 5° 1.5mm at 1.5m instrument Windows CE 7.0 accessible with PIN code to	0 protect data	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth	Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7.0 accessible with PIN code to Bluetooth 2.0 with workin	0 protect data g range 10m	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy	Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7.0 accessible with PIN code to Bluetooth 2.0 with workin 1,20,0000 RAW Point/1GB Internal and Exte	0 protect data g range 10m ernal upto 32GB Supportable	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface	Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7.0 accessible with PIN code to Bluetooth 2.0 with workin	0 protect data g range 10m ernal upto 32GB Supportable	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface GENERAL	Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7.1 accessible with PIN code to Bluetooth 2.0 with workin 1,20,0000 RAW Point / 1GB Internal and Exter	o protect data g range 10m ernal upto 32GB Supportable ni USB	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface GENERAL Laser pointer	Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7.1 accessible with PIN code to Bluetooth 2.0 with workin 1,20,0000 RAW Point / 1GB Internal and External Coaxial red lase	o protect data g range 10m ernal upto 32GB Supportable ni USB	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface GENERAL Laser pointer Laser Class "5 EDM Refle	Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7. accessible with PIN code to Bluetooth 2.0 with workin 1,20,0000 RAW Point / 1GB Internal and Exte RS232C/SD card/Mi Coaxial red lase ctor less Class 2	o protect data g range 10m ernal upto 32GB Supportable ni USB	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface GENERAL Laser pointer Laser Class '5 EDM Refle Sheet/Pris	Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7. accessible with PIN code to Bluetooth 2.0 with workin 1,20,0000 RAW Point / 1GB Internal and Exte RS232C/SD card/Mi Coaxial red lase ctor less Class 2 m mode Class 1	protect data grange 10m ernal upto 32GB Supportable ni USB	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface GENERAL Laser pointer Laser Class '5 EDM Refle Sheet/Pris Exterior material	Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7. accessible with PIN code to Bluetooth 2.0 with workin 1,20,0000 RAW Point / 1GB Internal and Exte RS232C/SD card/Mi Coaxial red lass ctor less Class 2 m mode Class 1 Water soluble anti-corrosive Accessible and common commo	protect data grange 10m ernal upto 32GB Supportable ni USB er	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface GENERAL Laser pointer Laser Class '5 EDM Refle Sheet/Pris Exterior material Working Temperature	Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7. accessible with PIN code to Bluetooth 2.0 with workin 1,20,0000 RAW Point / 1GB Internal and Exte RS232C/SD card/Min Coaxial red lass ctor less Class 2 m mode Class 1 Water soluble anti-corrosive Ar -20°C ~ +55°C	protect data grange 10m ernal upto 32GB Supportable ni USB er	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface GENERAL Laser pointer Laser Class '5 EDM Refle Sheet/Pris Exterior material	Erect 3X 0.5m ~∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7. accessible with PIN code to Bluetooth 2.0 with workin 1,20,0000 RAW Point / 1GB Internal and Exte RS232C/SD card/Min Coaxial red lass ctor less Class 2 m mode Class 1 Water soluble anti-corrosive Ar -20°C ~ +55°C Detachable Rechargeable Lithium Batter	protect data grange 10m ernal upto 32GB Supportable ni USB er crylic orange paint crylic orange paint crylic orange battery life	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface GENERAL Laser pointer Laser Class '5 EDM Refle Sheet/Pris Exterior material Working Temperature	Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7. accessible with PIN code to Bluetooth 2.0 with workin 1,20,0000 RAW Point / 1GB Internal and Exte RS232C/SD card/Min Coaxial red lass ctor less Class 2 m mode Class 1 Water soluble anti-corrosive Ar -20°C ~ +55°C Detachable Rechargeable Lithium Batte DC 7.4V, 3100m	protect data grange 10m ernal upto 32GB Supportable ni USB er crylic orange paint cry 6400 hours battery life	
Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface GENERAL Laser pointer Laser Class '3 EDM Refle Sheet/Pris Exterior material Working Temperature Battery Type	Erect 3X 0.5m ~∞ 5° et) 1.5mm at 1.5m instrument Windows CE 7. accessible with PIN code to Bluetooth 2.0 with workin 1,20,0000 RAW Point / 1GB Internal and Exte RS232C/SD card/Min Coaxial red lass ctor less Class 2 m mode Class 1 Water soluble anti-corrosive Ar -20°C ~ +55°C Detachable Rechargeable Lithium Batter	protect data grange 10m ernal upto 32GB Supportable ni USB er crylic orange paint cry 6400 hours battery life	

STANDARD PACKAGE COMPONENTS

Carrying Case X 1 Charger X 1 Battery X 2 Rain Cover X 1 Mini USB Cable X 1 Carrying Belt X 2 Plumb X 1 Adjusting Pin X 2 USB Stick 8GB X 1

Screw Driver X 1 Wiping Cloth X 1 Lens Cover X 1 SD-Card X 1 Allen Key X2 User Manual X 1 Warranty Card X 1 Reflecting Sheet X 1 Stylus X 2 Measuring Tape 3m X 1

RTS-100 SERIES WinCE Total Stations



OPTIONAL ACCESSORIES





Single Prism System

TK21SET Prism Set







Standard Compliance

ISO 14001:2015

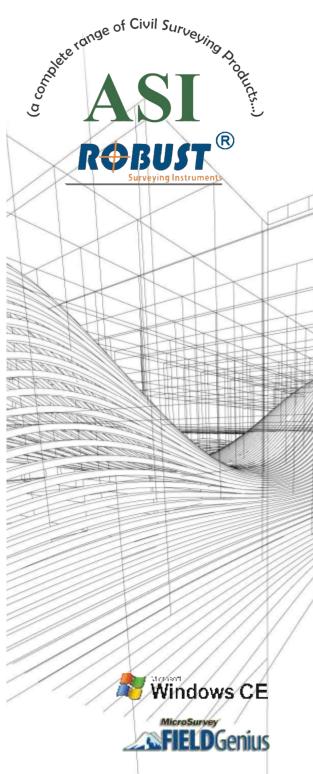
ISO 9001:2015







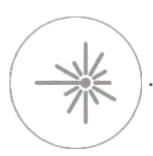






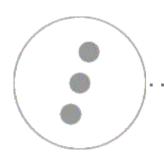


FEATURES



600/1000m reflectorless

measuring range covers a most common scale in your field job. With a single prism, you can reach up to 5km quickly with high 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 alphanumeric keyboards provides clear images and convenient operation even under strong sunlight.



RTS-Seriesadoptsanabsolute

encoding system, which does not require initialization by 0 set, and delivers a precise and stable angle measurement with up to 1"/2" accuracy.

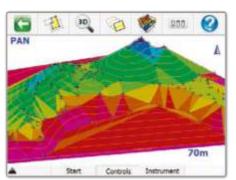


RTS-Seriesprovidesvarious

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.



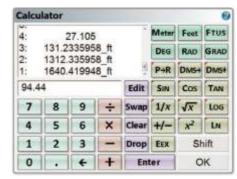
Digital Terrain Modeling, Volumes, and Contouring

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.



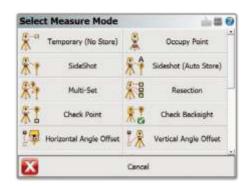
Powerful RPN Calculator

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 Roading

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.