SPECIFICATION ETS-102

ETS-101

TELESCOPE	
Length	154mm
Objective Lens Diameter	Telescope: 45mm EDM: 50mm
Magnification	30X
Objective aperture	48mm
Image	Erect
Field of View	1°30' (26 meters)
Resolving Power	3"
Mini. Focus	1m
DISTANCE MEASUREMEN	
Single Prism	6000m
Non-Prism	<u>100</u> 0m
Accuracy -Prism Mode	(1mm+1.5ppmxD)m.s.e.*3
-Non-Prism M	^{lode} 1-100m:±(2mm+2ppm x D)m.s.e. *3; 100-600m:±(3mm+2ppm x
	D)m.s.e.3;600m-1000m:±(5mm+3ppmxD)m.s.e.*3
Measuring Time	Fine: 0.3s, Tracking: 0.1s
Atmospheric Correction	T-P Sensor, Auto Detect and Correct
Prism Constant	Manual Input, Auto Correction
ANGLE MEASUREMENT	
Method	Absolute Encoding
Detecting System	H: 2 sides, V: 2 sides
Min. Reading	0.1", 1", 0.5" selectable
-	2" 1"
Accuracy Diameter of Circle	2 1 79mm
Vertical Angle 0°	Zenith 0°/Horizontal: 0°
Unit	360°/400gon/6400mil
DISPLAY	
Size	3.5", 640*480
No.of Display	Color TFT LCD touch screen with LED backlit alphanumeric keyboar
Distance resolution	Fine/Rapid: 0.001m
	Tracking: 0.01m
Keyboard	Alphanumeric
TILT CORRECTION	Quadruple Axis
Tilt Sensor (t	wo-axis compensation combined with Hz collimation and V index correct
Method	
Method Range	Liquid Electric ±6'
Range	±6'
Range Setting Accuracy	
Range Setting Accuracy LEVEL SENSITIVITY	±6' 0.5"
Range Setting Accuracy LEVEL SENSITIVITY Plate Level	±6' 0.5" 30"/2mm
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level	±6' 0.5" 30"/2mm 8'/2mm
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level	±6' 0.5" 30"/2mm 8'/2mm TIONAL: INTERNAL LASER PLUMMET)
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image	±6' 0.5" 30"/2mm 8'/2mm TIONAL: INTERNAL LASER PLUMMET) Erect
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT	±6' 0.5" 30"/2mm 8'/2mm TIONAL: INTERNAL LASER PLUMMET) Erect 3X
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image	±6' 0.5" 30"/2mm 8'/2mm TIONAL: INTERNAL LASER PLUMMET) Erect
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image Magnification	$\frac{\pm 6'}{0.5"}$ $\frac{30"/2mm}{8'/2mm}$ TIONAL: INTERNAL LASER PLUMMET) Erect $3X$ 0.5m ~ ∞ 5°
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image Magnification Focusing Range	$\frac{\pm 6'}{0.5''}$ $30''/2mm$ $8'/2mm$ TIONAL: INTERNAL LASER PLUMMET) $Erect$ $3X$ $0.5m \sim \infty$ 5°
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image Magnification Focusing Range Field of View	$\frac{\pm 6'}{0.5"}$ $\frac{30"/2mm}{8'/2mm}$ TIONAL: INTERNAL LASER PLUMMET) Erect $3X$ 0.5m ~ ∞ 5°
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image Magnification Focusing Range Field of View Accuracy (if laser plumme	$\frac{\pm 6'}{0.5"}$ $\frac{30"/2mm}{8'/2mm}$ TIONAL: INTERNAL LASER PLUMMET) Erect $3X$ 0.5m ~ ∞ 5°
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image Magnification Focusing Range Field of View Accuracy (if laser plumme System	to the set of the set
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System	$\pm 6'$ 0.5" 30"/2mm 30"/2mm 8'/2mm TIONAL: INTERNAL LASER PLUMMET) Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument height upto 3m Windows CE 7.0 accessible with PIN code to protect data
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth	t6' 0.5" 30"/2mm 8'/2mm TIONAL: INTERNAL LASER PLUMMET) Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument height upto 3m Windows CE 7.0 accessible with PIN code to protect data Bluetooth 2.0 with working range 10m
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy	$\pm 6'$ 0.5" 30"/2mm 30"/2mm 8'/2mm TONAL: INTERNAL LASER PLUMMET) Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument height upto 3m Windows CE 7.0 accessible with PIN code to protect data Bluetooth 2.0 with working range 10m 1.80,0000 RAW Point/8GB Internal and External up to 32GB Supportab
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface	t6' 0.5" 30"/2mm 8'/2mm TIONAL: INTERNAL LASER PLUMMET) Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument height upto 3m Windows CE 7.0 accessible with PIN code to protect data Bluetooth 2.0 with working range 10m
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface GENERAL	$\pm 6'$ 0.5" 30"/2mm 30"/2mm 8'/2mm TIONAL: INTERNAL LASER PLUMMET) Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument height upto 3m Windows CE 7.0 accessible with PIN code to protect data Bluetooth 2.0 with working range 10m 1.80,0000 RAW Point/8GB Internal and External up to 32GB Supportat RS232C/SD card/Mini USB
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface GENERAL Laser pointer	±6' 0.5" 30"/2mm 30"/2mm 8'/2mm TONAL: INTERNAL LASER PLUMMET) Erect 3X 0.5m ~∞ 5° et) 1.5mm at 1.5m instrument height upto 3m Windows CE 7.0 accessible with PIN code to protect data Bluetooth 2.0 with working range 10m 1.80,0000 RAW Point/8GB Internal and External up to 32GB Supportat RS232C/SD card/Mini USB Coaxial red laser
Range Setting Accuracy LEVEL SENSITIVITY Plate Level OPTICAL PLUMMET (OPT 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 ^{TS} EDM Refle	±6' 0.5" 30"/2mm 30"/2mm Vindows CE 7.0 accessible with PIN code to protect data Bluetooth 2.0 with working range 10m 1.80,0000 RAW Point/8GB Internal and External up to 32GB Supportat RS232C/SD card/Mini USB Coaxial red laser ctor less Class 2
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT 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 ^{TS} EDM Refle Sheet/Pris	±6' 0.5" 30"/2mm 30"/2mm Vinoval: INTERNAL LASER PLUMMET) Erect 3X 0.5m ~∞ 5° et) 1.5mm at 1.5m instrument height upto 3m Windows CE 7.0 accessible with PIN code to protect data Bluetooth 2.0 with working range 10m 1.80,0000 RAW Point/8GB Internal and External up to 32GB Supportat RS232C/SD card/Mini USB Coaxial red laser ctor less Class 2 m mode Class 1
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT 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 ⁷⁵ EDM Refle Sheet/Pris Exterior material	±6' 0.5" 30"/2mm 30"/2mm 8'/2mm TONAL: INTERNAL LASER PLUMMET) Erect 3X 0.5m ~∞ 5° et) 1.5mm at 1.5m instrument height upto 3m Windows CE 7.0 accessible with PIN code to protect data Bluetooth 2.0 with working range 10m 1.80,0000 RAW Point/8GB Internal and External up to 32GB Supportat RS232C/SD card/Mini USB Coaxial red laser ctor less Class 2 cm mode Class 1 Water soluble anti-corrosive Acrylic orange paint
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT 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 ^{TS} EDM Refle Sheet/Pris	±6' 0.5" 30"/2mm 30"/2mm Vinoval: INTERNAL LASER PLUMMET) Erect 3X 0.5m ~∞ 5° et) 1.5mm at 1.5m instrument height upto 3m Windows CE 7.0 accessible with PIN code to protect data Bluetooth 2.0 with working range 10m 1.80,0000 RAW Point/8GB Internal and External up to 32GB Supportat RS232C/SD card/Mini USB Coaxial red laser ctor less Class 2 m mode Class 1
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT 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 ⁷⁵ EDM Refle Sheet/Pris Exterior material	$\pm 6'$ 0.5" 30"/2mm 30"/2mm 8'/2mm TONAL: INTERNAL LASER PLUMMET) Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument height upto 3m Windows CE 7.0 accessible with PIN code to protect data Bluetooth 2.0 with working range 10m 1.80,0000 RAW Point/8GB Internal and External up to 32GB Supportat RS232C/SD card/Mini USB Coaxial red laser ctor less Class 2 m mode Class 1 Water soluble anti-corrosive Acrylic orange paint -20°C ~ +55°C Detachable Rechargeable Lithium Battery 61000 hours battery life
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT Image Magnification Focusing Range Field of View Accuracy (if laser plumme System Operation System Protection lock Bluetooth Memroy Data Interface GENERAL Laser pointer Laser pointer Laser Class ⁷⁵ EDM Refle Sheet/Pris Exterior material Working Temperature	$\pm 6'$ 0.5" 30"/2mm 30"/2mm 8'/2mm TONAL: INTERNAL LASER PLUMMET) Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument height upto 3m Windows CE 7.0 accessible with PIN code to protect data Bluetooth 2.0 with working range 10m 1.80,0000 RAW Point/8GB Internal and External up to 32GB Supportat RS232C/SD card/Mini USB Coaxial red laser ctor less Class 2 com mode Class 1 Water soluble anti-corrosive Acrylic orange paint -20°C ~ +55°C
Range Setting Accuracy LEVEL SENSITIVITY Plate Level Circular Level OPTICAL PLUMMET (OPT 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 ¹⁵ EDM Refle Sheet/Pris Exterior material Working Temperature Battery Type	$\pm 6'$ 0.5" 30"/2mm 30"/2mm 8'/2mm TONAL: INTERNAL LASER PLUMMET) Erect 3X 0.5m ~ ∞ 5° et) 1.5mm at 1.5m instrument height upto 3m Windows CE 7.0 accessible with PIN code to protect data Bluetooth 2.0 with working range 10m 1.80,0000 RAW Point/8GB Internal and External up to 32GB Supportat RS232C/SD card/Mini USB Coaxial red laser ctor less Class 2 m mode Class 1 Water soluble anti-corrosive Acrylic orange paint -20°C ~ +55°C Detachable Rechargeable Lithium Battery 61000 hours battery lif

*1. Good condition: No haze, visibility about 40km, overcast, no scintillation. *2. With Kodak Grey Card white side (90% reflectivity). *3. D stands for distance. *4. Typically, u measuring time may differ according to FDA21 CFR Ch.1 §.1040.



ADVANCED SURVEYING INSTRUMENTS (INDIA) PVT. LTD. H-10/103,FIRST FLOOR, EXPRESS ARCADE, OPPOSITE P.P. TRADE CENTER,NETAJI SUBHASH PLACE, PITAMPURA, NEW DELHI-110 034 Tel: 011-47014143, +91-9910697973

STANDARD PACKAGE	COMPONENTS
Carrying Case X 1	Screw Driver X 1
Charger X 1	Wiping Cloth X 1
Battery X 2	Lens Cover X 1
Rain Cover X 1	SD-Card X 1
Mini USB Cable X 1	Allen Key X2
Carrying Belt X 2	User Manual X 1
Plumb X 1	Warranty Card X 1
Adjusting Pin X 2	Reflecting Sheet X 1
USB Stick 8GB X 1	Stylus X 2

OPTIONAL ACCESSORIES



TPS26

Single Prism System



TK21SET

Prism Set

& Prism System

Measuring Tape 3m X 1

ATS-2 Aluminum Tripod Wooden Tripod Huminum Tripod

EC Standard Compliance ISO 14001:2015 ISO 9001:2015

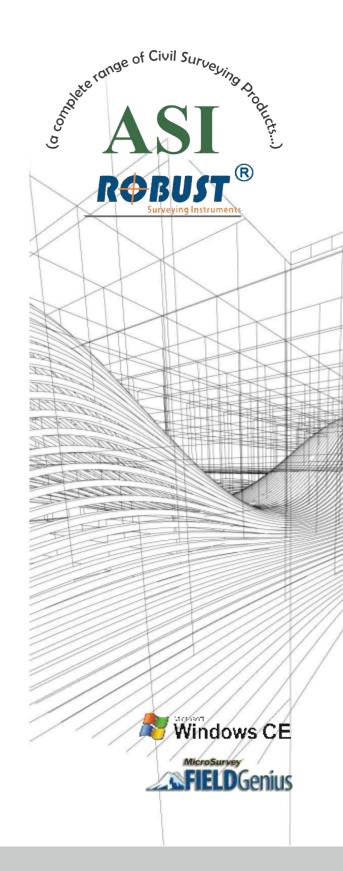




ETS-100 SERIES WinCE Total Stations

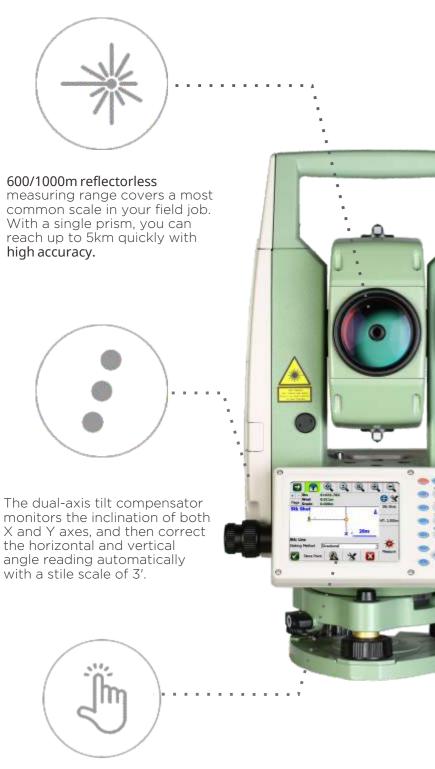




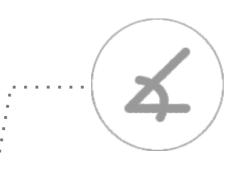




FEATURES



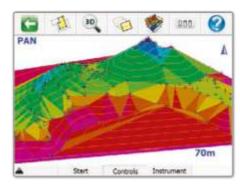
3.5" high definition color touch screen and 2 sides of alphanumeric keyboards provides clear images and convenient operation even under strong sunlight.



ETS - 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 1"/2" accuracy.

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

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.

Calcu	lator						
4:	27.105 131.2335958_ft 1312.335958_ft				Meter	Feet	FTUS
3: 2:					DEG	RAD	GRAD
2:		41994	_	1	P+R	DMS+	DMS
94.4	4	-stimes	-	Edit	SIN	Cos	TAN
7	8	9	-	Swap	1/x	√x	106
4	5	6	×	Clear	+/-	x2	LN
1	2	3	-	Drop	EEX	SI	nift
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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.



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



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.

Set Shortcut Key	Disable Shortcut Key	Set User Button	Reset All	
Function		Shortout Key		
Delete Last Saved Point		Disabled		
Point Database		*		
Add Comment		x		
Raw File Viewer		U		
COGO History		v		
Daable All Sk	ortcuts			
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User Definable Shortcuts

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