



# RTS-100 SERIES WinCE7 Advanced Total Station

SPECIFICATIONS		RTS-101R10
Distance Measurement with Reflector	Range *1	3500m
	Accuracy	±(2+2ppm.D)mm
	Measure Interval	Fine: 0.3s, Tracking: 0.1s
Distance Measurement without Reflector	Range *2	1000/1500/2000m Optional
	Accuracy	0~500m: ±(3mm + 2 x 10-6.D)
		500~1000m: ±(2mm + 2 x 10-6.D)
		1000~2000m: ±(10mm + 2 x 10-6.D)
Measure Interval time	0.1-3s	
Angle Measurement	Accuracy	1"
	Measure Method (HZ/V)	Absolute Continuous, Diametrical
	Diameter of Encoder Disk	79mm
	Display Resolution	0.1"/1"/5" (Optional)
	Compensation	Liquid, Dual Axis Compensation
	Compensator Setting Accuracy	1"
	Compensator Range	±4'/±6'(Optional)
Telescope	Image	Erect
	Tube Length	154mm
	Effective Aperture	45mm (EDM:50mm)
	Magnification	30X
	Resolving Power	1"
	Field of View @ 1000 meter	1°30" or 22mtr.
	Focusing Range	1.2m
	Reticle	Illuminated, 4-10 Brightness Level
Vial	Plate Vial	30"/2mm
	Circular Vial	8'/2mm
Laser Plummet (Default)	Type	Laser Point, 4 Brightness Level
	Accuracy	±0.5mm at 1.5M Instrument Height
	Wavelength	630-670nm
	Laser Class	Class 2 /IEC60825-1
	Magnification	3x
Auto Height*1*2	Measure Range	/ 0.5m-3m
	Accuracy	/ ±1.5mm@1.5m
Guide Light	Type	LED
	Wavelength	Red 635nm/ Green 590nm
	Effective Range	200m
System Config	Operating System	Window CE 7/ Android 11.0
	Processor	MT6762
	Internal Memory	RAM: 8GB; ROM: 64GB : 120000 Pts.
Communication	Interfaces	-USB Type C (OTG)
		-TF /SD / Micro Card
	Network	3G 2100/900 CDMA BCO TDSCDMA A/F
		4G LTE band1/3/7/38/39/40/41
	Bluetooth	Bluetooth 4.0
	WLAN	Dual-Band Single Stream 802.11 a/b/g/n RF for Data Link
Microphone / Speaker	Available	
Display	Type (Dual Side)	5.0 Inch, TFT LCD Touch Screen, 720*1280, Alphanumeric keyboard
Battery	Type	Lithium-Ion, 7.4V
	Operating Time	24 Hours
Dimension	Size	196mm*192mm*360mm
	Weight	5.0kg
Environmental	Temperature Range (Operation)	-20°C ~ 50°C
	Protection	IP65

\*0: SI60825-1,2015

\*1: Good conditions (good visibility approx.40km, overcast, twilight)

\*2: White objects with high reflectivity (KGC 90%)



- New! Android 11.0 Operating System
- Reliable EDM - 2000m Non-Prism Range
- High Precision - 1", 2+2ppm
- User Friendly with EDM Trigger Key
- 5.0 Inches Color Touchscreen
- Fast, Simple and Flexible Data Transfer
- Intuitive Onboard Software - SurvStar (field Genius)



Work Unit : A223, Ground Floor, Near by Bank of Baroda ATM, Karam Pura, New Delhi-110015 (INDIA)  
 Regd. Address: 38/A, Ground Floor, Street No.-3, Ambedkar Nagar Haider Pur, New Delhi-110088 (INDIA)  
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# Advanced Total Station

## RTS-100 SERIES

With the proven dual-laser technology, RTS-100 Series features a powerful and reliable EDM module designed for extremely long-range, fast speed and stable measurement, even under the tough conditions.

All these combined in the new-designed colorful touch screen with fast, simple and flexible data transfer, which makes you more productive than ever before.

### Reliable and Outstanding EDM

- 1000m/1500m/2000m Non-prism Range Optional.
- 3500m Prism Range.
- Improved the Algorithm by Dual-Laser EDM.

### Guaranteed High Precision

- 1" Angle Accuracy.
- 2+2ppm Distance Accuracy.
- Extremely Fast (0.1-3s) When Getting the Target.

### EDM Trigger Key

- Achieve the Target by Only One Simple Button Press.
- Not Necessary to Taking Your Eyes Off the Telescope.

### New Designed Control Panel

- 5.0 Inch Color Touchscreen for Higher Readability.
- User-Defined Numeric and Functional Keys.
- Unique Brightness Sensor with Virtual Button, Which Provides a Smartphone-like Experience.

### Fast, Simple and Flexible Data Transfer

- Support USB-Type C, TF Card, SIM Card Slot
- Flexible Data Transfer with Bluetooth and Wi-Fi Technology.

### Double-lock Theft Protection

First security protection goes to Android screen locker with 4 options such as PIN/Code/Pattern/Password. Second one will be the compulsory online firmware update (in terms of language option, software key, etc.) every 6 months, without which it's not possible to continue the instrument or program use.

Reliable and Outstanding EDM - 2000m Non-Prism

Guaranteed High Precision - 2", 2+2ppm

User Friendly - EDM Trigger Key

Smartphone-like Experience - Brightness Sensor with 5.0 Inch Touchscreen

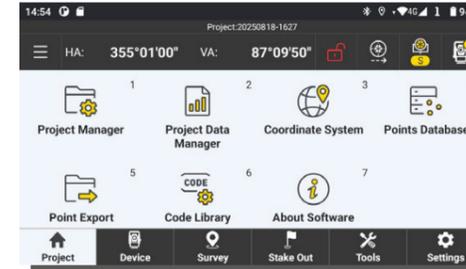
Fast, Simple and Flexible Data Transfer



## Digitizing Your Work field Genius by Survstar

### Iconic User Interface

The Survstar onboard program features an iconic display of the survey elements, like electronic bubble, e-compass, star key and iconic toolbar. It provides a better understanding for station setup, data collect, stake out in daily tasks.



### Map-Driven Workflow

Map is an interactive display feature embedded in Survey Star. It offers a graphical display of the survey elements with base map, which can be downloaded by network, or imported by manual. It provides a better understanding for data collect, stake out in daily tasks.



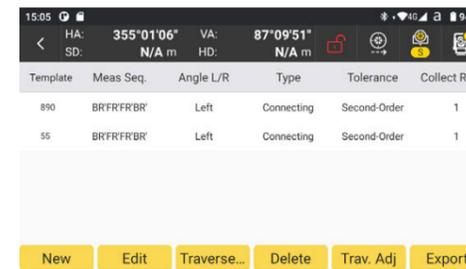
### Powerful Onboard Program

Including Free Station, COGO, CAD Stake Out, Arc Stake Out, Reference Line, Traverse, etc.



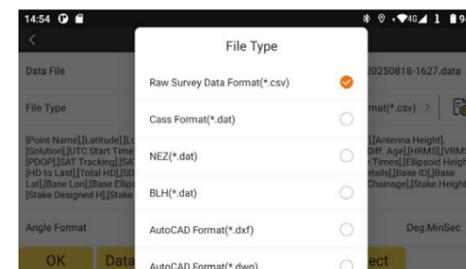
### CAD Stake Out

With CAD Stake Out, RTS-100 Series helps to handle the data and stake out freely in DWG or DXF files. The only thing you need to do is import the CAD files to your N2H total station.



### Traverse

When you've got a very difficult site with a lot of obstructions like trees, that obscures our visibility; Or when you can't measure or place the points you need, traverse on RTS-100 Series total station helps to get a few more control points to work further than the first orientation.



### Flexible Data Manage

You can send or receive your data to your controller or PC more flexible than ever, by multiple data format, e.g. \*.txt, \*.dxf, \*.dat, \*.csv, \*.xls.

When you've got a RTS-100 Series total station, you will have infinite possibilities.