SPECIFICATION

		STS-772R	STS-775R
Distance Measurement			
Max distance (Good weather)	Single prism	5.0Km	5.0Km
	3 prism	8km-10km	8km-10km
	Non prism	350m	350m
Display		Max：99999999.9999　Min:0.1mm	
Precision		With prism：2mm+2ppm	
		Without prism：5mm+3ppm	
Measure time		fine measurment 1.0s、Tracking 0.5s	
Atmospheric correction		Auto correction	
Reflection prism correction		Auto correction	
Angle Measurement			
Measuring method		Absolute encoding	
Absolute Encoding disk diameter		79mm	
Min display unit		1"/5" Selectable	
Accuracy		2"	5"
Detection method		Horizontal：Dual	Vertical ：Dual
Telescope			
Image		Erect	
Tube length		154mm	
Effective aperture		45mm，(EDM：50mm)	
Magnification		30X	
Field of view		1°30'	
Resolving power		3"	
Minimum focusing distance		1m	
Auto Compensator			
System		Dual axis Liquid-electric	
Work range		±3'	
Accuracy		1"	
Vial			
Plate vial		30"/2mm	
Circular vial		8'/2mm	
Optical Plummet			
Image		Erect	
Magnification		3X	
Focusing range		0.5m~∞	
Field of view		5°	
Laser Plummet		Optional	
Display			
Type		3.2 inches LCD, Touch screen Windows CE. NET operation system	
On-board Battery			
Power supply		Rechargeable Ni-H battery	
Voltage		DC　7.2V	
Continuous operation time		8 hours	
Data Storage			
Internal memory		64M byte	
SD card		2G byte	
Communication port		RS-232 port (6pin), Mini USB, SD card	
Size & weight			
Dimension		200mmX190mmX350mm	
Weight		6.0Kg	

ACCESSORIES

TPS PRISM SYSTEM

TPS26
Single Prism System

TPS35
Triple Prism System

TPSmini 112A Mini Prism
Diameter：25.4mm
Constant：17.5mm

Mini Pole
Length：4×30cm,
Diameter：10mm

ATS-1
Aluminum Tripod

ATS-2
Wooden Tripod

TPS106
Prism Pole
& Prism System

STS-770R SERIES

TOTAL STATION

SANDING

SANDING OPTIC-ELECTRICS INSTRUMENT CO., LTD.
Add: 2/F, Surveying Building (He Tian Building),NO.26, Ke Yun Road,Guangzhou 510665, China
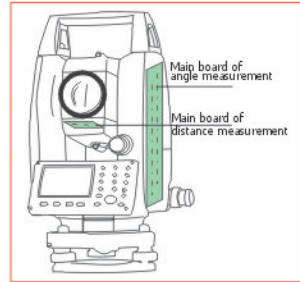Tel: +86-20-22826691　　Fax: +86-20-22826692
E-mail: export@sanding.com.cn　　export@sandinginstrument.com
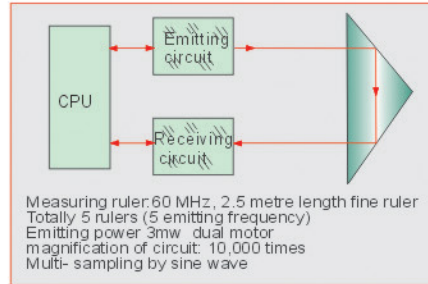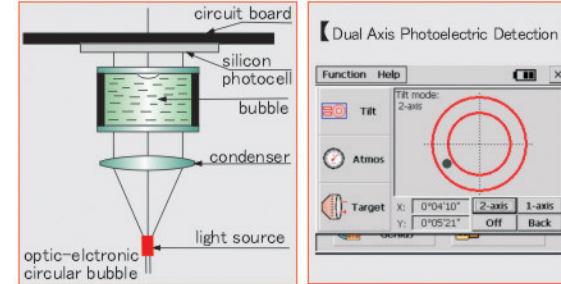
www.sandinginstrument.com

Upgraded Mainboard

Using different main board for angle measurement and distance measurement, more simple and reasonable structure, easy maintaining.
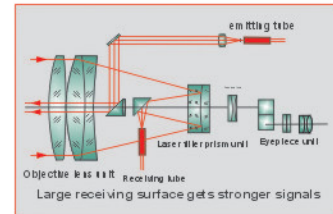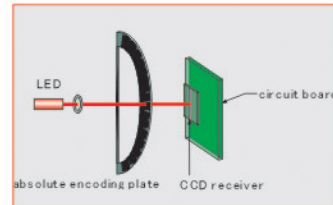
Circuit Diagram

Measuring ruler:60 MHz, 2.5 metre length fine ruler
Totally 5 rulers (5 emitting frequency)
Emitting power 3mw dual motor
magnification of circuit: 10,000 times
Multi- sampling by sine wave

Dual Axis Compensation

Laser Path Diagram

Large receiving surface gets stronger signals

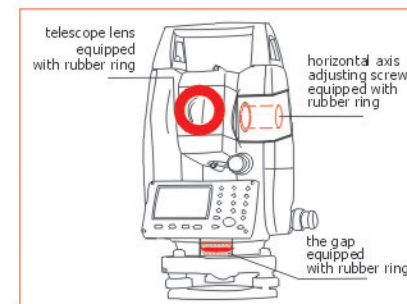## DustProof & Waterproof

Absolute Encoding Disk

With absolute encoding disk, you can start your work directly as the instrument is powered on. Azimuth angle will be saved even if the power is off incidentally in the job.

Colorful touch screen

Using Windows CE.NET Operating system, 3.2 inches extremely large LCD display, shows a large amount of information at a time, makes the measuring operation easy and clear. You can intuitionally launch data storing, manipulating and exchanging with PC based on Windows platform.

Convenient Data Communication

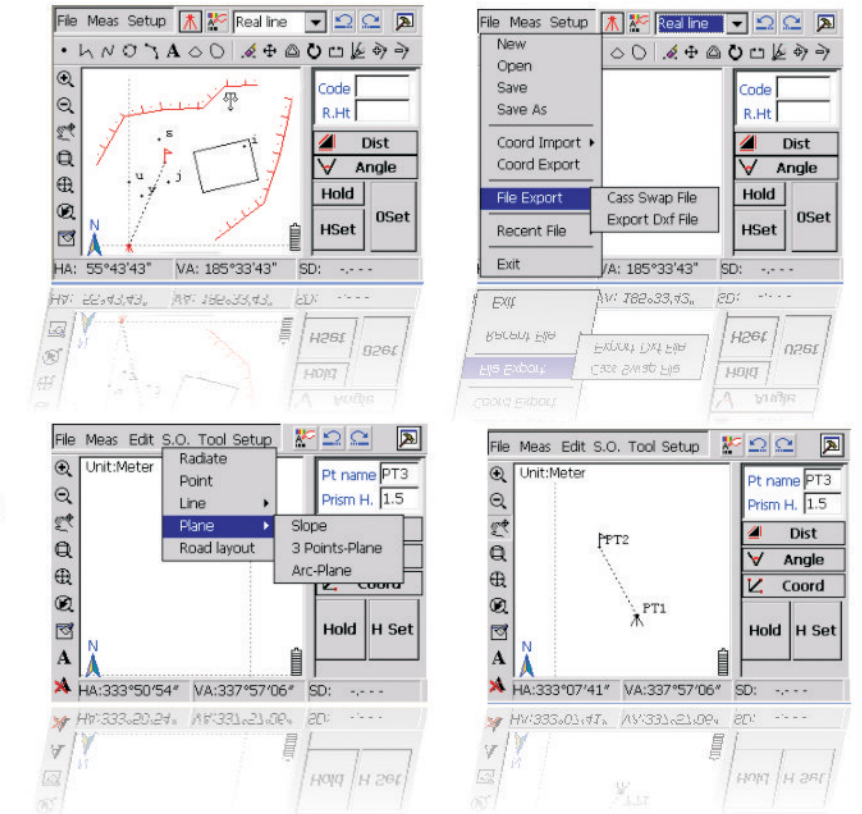Upload/download data via SD card or miniUSB cable transfer

ON-BOARD SOFTWARE

Mapping Genius

Mapping Genius is an integrated software for field data collection and mapping. With the advantages of laptop, data collector, PDA, it enable the user to collect coordinates in step with collecting diagrams, attributes, get final map in field by using SCB technology. It realizes the integration of indoor and outdoor jobs.

Engineering Genius

Engineering Genius is specially designed for construction measurement jobs. It brings user data collection/ calculation and mapping programs which can be applied in various works like staking-out, curve measurement, section measurement, fill/ cut calculation, coordinate conversation, leadline measurement, level measurement, level section measurement.

Third Party Software Supportable.

With Windows CE operation system, Total Station STS-770R series enables users to install third party software to cater to their operating preference.

Topko CE*, for example, is a software for survey and stake out in field developed by Sierrasoft, Italy. With it, you can:
- lAchieve a user-friendly graphic CAD function;
- lImport or export more data formats such as DXF, SHP, XML, ASCII, LandXML, etc.
- lSelect various languages such as English, French, German, Italian, Spanish, Portuguese, Russian, Polish, Turkish, Bulgarian, Czech, etc.

Any third party software is not included in the total station operation system.

Topko CE