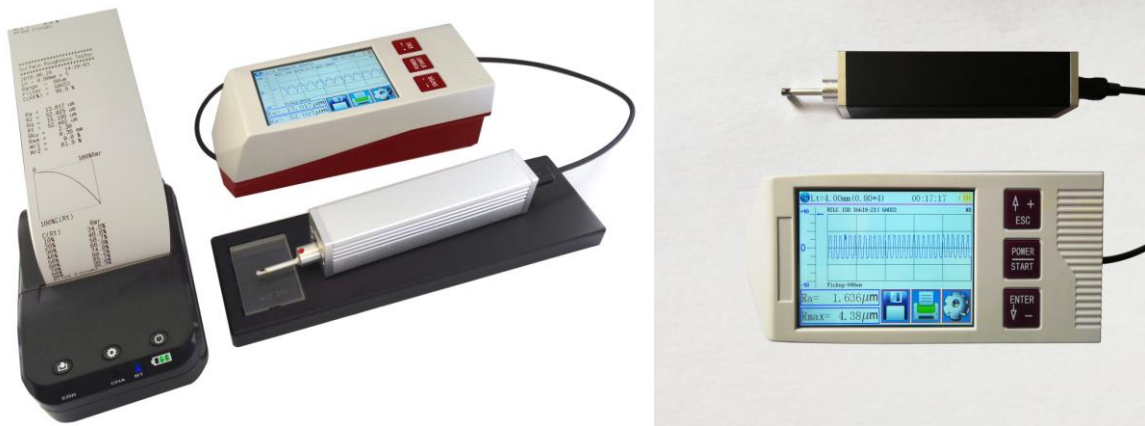


22 PARAMETERS TFT TOUCH SCREEN SURFACE ROUGHNESS TESTER SRT-6680 WITH GRAPHIC



Main Features

- ❖ Mechatronic and ergonomics design, small size, light weight, easy to operation
- ❖ The stylus drive unit can be stored within the main unit for standard measurement, or separated from the display unit by using the supplied cable which allows more flexible measurement in any orientation. The driver can be separated and reattached in one simple step.
- ❖ DSP chip control and data processing, high speed, low power consumption
- ❖ 22 Parameters: Ra ,Rz, Rq, Rt, Rp ,Rv, R3z, R3y, Rz(JIS), Rs, Rsk, Rsm, Rku, Rmr, Ry(JIS), Rmax,RPc, Rk, Rpk, Rvk, Mr1, Mr2
- ❖ Measurement range up to 160 μ m (can be optional to 320 μ m)
- ❖ 3.5 inches color graphic TFT touch screen, wide viewing angle, excellent readability and an intuitive rich display, it includes a backlight to improve visibility in dark environments
- ❖ Can be operated using buttons or touch screen
- ❖ It provide Bluetooth Capability , support wireless connection with mobile and mini printer.
- ❖ Built-in lithium-ion rechargeable battery and control circuit, high capacity, no memory effect, it works over 50 hours while fully charged, and there is remaining charge indicator, charging hint
- ❖ Large capacity data storage, 100 item of raw data and curves can be stored
- ❖ Real-time clock setting and display for easy data recording and storage
- ❖ With auto sleep, auto power off, power-saving features
- ❖ Reliable circuit and software design to preventing the motor stuck
- ❖ Language: Chinese and English switch freely
- ❖ All parameters or any of the parameters which set by users can be printed
- ❖ Optional accessories: Bluetooth capability, curved sensor, pinholes sensors, measurement, stand, extension rod, printer
- ❖ Portable Surface Roughness Tester SRT6680 complies with international standards ISO, DIN, ANSI, JIS

Technical parameters









Measuring Range	The Z axis (vertical)	$\pm 80\mu\text{m}/\pm 160\mu\text{m}$ (enhanced model)
	The X axis (Transverse)	20mm
Resolution	The Z axis (vertical)	0.01 $\mu\text{m}/\pm 20\mu\text{m}$
		0.02 $\mu\text{m}/\pm 40\mu\text{m}$
		0.04 $\mu\text{m}/\pm 80\mu\text{m}$
		0.08 $\mu\text{m}/\pm 160\mu\text{m}$
22 Parameters		Ra,Rz,Rq,Rt, Rp,Rv,R3z,R3y,Rz(JIS),Rs,Rsk,Rsm,Rku,Rmr,Ry(JIS), Rmax, R _{Pc} , Rk, R _{pk} , R _{vk} , Mr1, Mr2)
Graphic		Bearing area curve, Roughness profile, Primary profile
Filter		RC,PC-RC,Gauss,D-P
The sampling length(<i>l_r</i>)		0.25, 0.8, 2.5mm
Assessment length (<i>l_n</i>)		$L_n = l_r \times n$ $n=1\sim 5$
Sensor	Measuring method	skidded
	Stylus tip	Diamond, 90 cone angle, 5 μmR
	Force	<4mN
	Skid part	hard alloy, skid radius of curvature: 40mm
	Traversing speed	$l_r=0.25$, $V_t=0.135\text{mm/s}$
		$l_r=0.8$, $V_t=0.5\text{mm/s}$
$l_r=2.5$, $V_t=1\text{mm/s}$		
Return $V_t=1\text{mm/s}$		
Accuracy		Less than $\pm 10\%$
Repeatability		Less than 6%
Power supply		Built-in Lithium ion battery, Charger :DC5V,800mA
Outline dimension		Main unit: 64*53*160mm drive: 23*27*115mm
Weight (main unit)		Around 380g
Working Environment		Temperature: - 20 $^{\circ}\text{C}$ ~ 40 $^{\circ}\text{C}$ Humidity: < 90% RH
Store and Transportation		Temperature: - 40 $^{\circ}\text{C}$ ~ 60 $^{\circ}\text{C}$ Humidity: < 90% RH

Standard Delivery

ITEM	QTY
SRT6680 Host	1 PC
Sensor TS110	1 PC
Calibration block and bracket	1 PC
Bracket for Calibration Block	1 PC
Height adapter	1 PC
Power Charger & USB Cable	1 PC
PC Software	1 PC

User manual	1 PC
Instrument case	1 PC
Warranty	2 Years

Optional Accessories

Image	Description
	TS55 - Extending Rod , extending rod increases the depth for pickup to enter the part. Length of extending rod is 50mm.
	TS90 - Right Angle Rod , change the position of the sensor, mostly use for measure surface of particular groove.
	TS100 - Standard Sensor , to measure most of the plane, inclined plane, cone surface, inner hole, groove and other surface roughness, in addition to the standard sensor, other special sensors are needed to measure the measuring platform.
	TS110 - Curved Surface Sensor , to measure smooth cylindrical surface which radius is larger than 3mm, for the large radius smooth spherical surface and other surface also can obtain good approximation, need to work with platform TA520 or TA620.
	TS120 - Small hole Sensor , to measure the inner surfaces of holes with radius more than 2mm, better to work with platform TA520 or TA620.
	TS131 - Deep Groove Sensor , measure groove with width wider than 3mm and depth deeper than 10mm, or the surface roughness of step with height less than 10mm, also can used to measure the planar, cylindrical used with platform, better to work with platform TA520 or TA620.
	TA520 -Metal Substrate Working platform , adjustable height 200mm. With flexible and stable operation and wider application range. Roughness of complex shapes can also be measured. Measurement stand enable the adjustment of the position of stylus to be more precise and measurement to be more stable. If Ra value of measured surface is relatively low, Using measurement platform is recommended.
	TA620 -Marble Substrate Working Platform , adjustable height 300mm. With flexible and stable operation and wider application range. Roughness of complex shapes can also be measured. Measurement stand enable the adjustment of the position of stylus to be more precise and measurement to be more stable. If Ra value of measured surface is relatively low, Using measurement platform is recommended.

	<p>Standard Roughness Calibration Block Multi-engraved lines (Square Wave)</p> <p>Made by optical glass, with high hardness, high accuracy standard roughness value, anti-scratch, has longer life than metal roughness block.</p> <p>Meet standard GB/T19067.1-2003 and ISO5436-1:2000</p> <p>Approximation: Ra=0.1um, 0.2um, 0.4um, 0.8um, 1.6um, 3.2um, 6.4um</p> <p>Customized Value and Sine Wave available, welcome to inquire.</p>
	<p>Standard Roughness Calibration Block Single engraved lines</p> <p>Made by optical glass, with high hardness, high accuracy standard roughness value, anti-scratch, has longer life than metal roughness block.</p> <p>Meet standard GB/T19067.1-2003 and ISO5436-1:2000</p> <p>Approximation: Ra=0.1um, 0.2um, 0.4um, 0.8um, 1.6um, 3.2um, 6.4um)</p> <p>Customized Value available, welcome to inquire.</p>
	<p>Roughness Comparator (30 pcs/set)</p> <p>This set contains standards of the six most important machining methods in the prevalent "AA" values. These surface roughness is used to compare and determine the degree of the surface finish by comparison method and eye estimation or magnifying glass. The surface rough contact blocks is made of 45 super carbor steel except the GCr15 which is using to plat lapping the sample block. All 30 specimens are calibrated in u"AA (Arithmetical Average) and in the metric equivalents um Ra.</p>
	<p>Charge and Cable for Surface Roughness Tester</p> <p>Charger: US and EU standard optional</p> <p>Cable: USB interface</p>
	<p>Mini thermal printer</p> <p>External printer, connect by USB interface, suitable for HUATEC models.</p>
	<p>Thermal printing paper</p> <p>Suitable for mini thermal printer and HUATEC's tester with built-in printer</p> <p>Packing: 10pcs/bag</p>

