Standard package

Main unit	1
Standard probe	1
Calibrate specimen	1
Specimen plate	1
Charger	1
Data transfer cable(SR220)	1
Remote controller(SR220)	1
Screw driver	1
Operation manual	1
Carrying case	1

Optional accessories

General Purpose Probe
Curved surface Probe
Small Bore Probe
Super Small Bore Probe
Groove bottom probe
Extension Rod
Height Stand
Bluetooth micro printer (SR220 only)
Calibrate specimen
Measurement platform
PC software (SR220 only)

Surface Roughness Tester
SADT SR210/SR220

SR210 / SR220 portable surfaces roughness tester is a small handheld instrument with big LCD, high accuracy and various parameters. It can be used in the laboratory, inspection area or wherever on-site surface roughness testing is required. The measuring data of SR220 can be output to PC or micro printer.

SR220


SR210

KEY FEATURES

- *28 parameters: Ra, Rq, Rz, Rt, Rp, Rv, RS, RSm, Rz(JIS), Ry(JIS), RSk, R3z, Rmax, Rpc, Rmr, Rku, RΔa, RΔq, Rδc, Ry, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, V0; (SR220 only)*
- *320µm wide range high accuracy inductance probe;*
- *Four filtering methods of RC, PC-RC, GAUSS and D-P;*
- *Compatible with four standards of ISO, DIN, ANSI and JIS;*
- *128×64 2.7" dot matrix OLED displays all parameters, graphs and menu; (SR220 only)*
- *DSP chip is used to control and process data with high speed and low power consumption;*
- *Built-in lithium ion chargeable battery and control circuit;*
- *With internal memory chip, it can store 20 groups of measuring data, using extend SD card to extned unlimited memory; (SR220 only)*
- *Built-in remote control module, can take measurments romotely; (SR220 only)*
- *Design of mechanical and electrical integration is adopted to achieve small bulk, light weight and easy usage;*
- *Can be connected to Bluetooth micro printer to print all parameters and graphs; (SR220 only)*
- *Built-in standard micro-USB interface enables communication with PC; (SR220 only)*
- *Automatic switch off, memory and various prompt instructions (SR220 only)*

Specifications

Model		SR210	SR220
Measuring range	Z Axis (Vertical)	320µm (Ra=80µm)	
	X Axis (Horizontal)	17.5mm	
Resolution	Z Axis (Vertical)	0.01µm/±20µm 0.02µm/±40µm 0.04µm/±80µm 0.08µm/±160µm	
Measurement item	Parameters	Ra, Rq, Rz, Rt	Ra, Rq, Rz, Rt, Rp, Rv, RS, RSm, Rz(JIS), Ry(JIS), RSk, R3z, Rmax, Rpc, Rmr, Rku, RΔa, RΔq, Rδc, Ry, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, V0;
	Standards	ISO, ANSI, DIN, JIS	
	Graphic	-	Roughness profile, Material ratio curve, Direct profile
Filter	RC, PC-RC, Gauss, D-P		
Sampling length (lr)	0.25 / 0.8 / 2.5mm		
Assessment length (ln)	Ln= lr×n n=1~5		
Probe	principle	Differential inductance	
	Stylus	Natural Diamond, 90° cone angle, 5µm tip radius	
	Force	<4mN	
	Skid	Ruby, Longitudinal radius 40mm	
	Traversing speed	lr=0.25, Vt=0.15mm/s lr=0.8, Vt=0. 5mm/s lr=2. 5, Vt=1mm/s Return Vt=1mm/s	
Accuracy		Less than or equal to ±10%	
Repeatability		Less than or equal to 6%	
Power supply		Built-in Lithium ion battery, AC adapter 5V, 1000mA	Built-in Lithium ion battery, AC adapter 8.4V, 800mA
Dimension		112×50×47mm (L×W×H)	
Weight		approximately 360g	

(ES) Equipements Scientifiques SA - Département Bio-tests & Industries - 127 rue de Buzenval BP 26 - 92380 Garches
Tél. 01 47 95 99 90 - Fax. 01 47 01 16 22 - e-mail: bio@es-france.com - Site Web: www.es-france.com