SURFACE ROUGHNESS TESTER
SADT SR220

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 can be output to PC or Bluetooth micro printer. ●

Standard package - SR220

SR220 main unit	1
Standard probe	1
Calibrate specimen	1
Specimen plate	1
Power adaptor	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

Calibrate specimen

Measurement platform

PC software

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;
✦ 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;
✦ Can store 15 sets of measurements results
✦ 128×64 2.7" dot matrix OLED displays all parameters, graphs and menu;
✦ 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 extnd unlimited memory;
✦ Built-in remote control module, can take measurments romotely;
✦ 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;
✦ Built-in standard micro-USB interface enables communication with PC;
✦ Automatic switch off, memory and various prompt instructions

Specifications

SADT SR200		
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, 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 8.4V, 800mA
Dimension		112×50×47mm (L×W×H)
Weight		approximately 360g