

JITAI8102 Plus Surface Roughness Tester



I. Introduction

The surfaces roughness tester is suitable for shop floor use and mobile measure to need of a small handheld instrument, its operation is simple, function overall, measure fast, accuracy stability, take convenience. This tester applies to production site and can be used to measure surface roughness of various machinery-processed parts. This tester is capable of evaluating surface textures with a variety of parameters according to various national standards and international standard. The measurement results are displayed digital/graphically on the OLED, and output to the printer.

II. Main feature

- Electromechanical integration design, small size, light weight, easy to operation;
- DSP chip control and data processing, high speed, low power consumption;
- 14 parameters: Ra、Rq、Rz、Rt、Rp、Rv、R3z、R3y、RzJIS、Rs、Rsk、Rku、Rsm、Rmr
- 160 μ m large measurement range
- 240*320 TFT color display, digital or graphic highlight display; no viewing angle;
- Display full information, intuitive and graphical displays all parameters;
- Compatible with ISO, DIN, ANSI, JIS multiple national standards;
- Built-in lithium-ion rechargeable battery and control circuit, high capacity, no memory effect
- There are remaining charge indicator, charging hint;
- Tester has charging instructions, the operator can readily understand the level of charge
- Can work more than 20 hours while the power is enough
- Large capacity data storage, can store 100 item of raw data and waveforms;
- Real-time clock setting and display for easy data recording and storage;

- With automatic sleep, automatic shutdown power-saving features;
- Reliable circuit and software design of prevent the motor stuck;
- Instrument can display a variety of information tips and instructions. For example Measurement result display, the menu prompts and error messages

III. Technical Parameters

Name	Content
Measurement Parameter	Ra,Rz,Ry,Rq,Rt, Rp,Rv,Rmax, R3z, Rsk, Rs, Rsm,Rmr
Measuring Range	Ra:0.005-16um
Display Range	Ra,Rq:0.005-16um
	Rz,Rt,Ry,Rp, Rv,Rmax,R3z:0.02-160um
Error Correction Range	One click measurement correction
Resolution	0.001um
Filter	RC,PC-RC,Gauss,D-P
The sampling length(lr)	0.25,0.8,2.5mm
Assessment length (ln)	Ln= lr×n n=1~5
Drive stroke	1.25-17.5mm
Indication Error	No more than±10%
Repeatability	No more than 6%
Supporting Artifacts	Flat surface, curved surface, and other special workpieces
Display	LCD
Power supply	Rechargeable lithium battery
Standard accessories	Host, standard sensor, standard template, height adjustment bracket, power adapter,sensor protection sleeve
Accessories optional	Marble platform, cast iron platform, small hole/curved surface/deep groove sensor, sensor extension rod
Outline dimension L*W*H	157*63*45mm
Weight	About 456.8g

IV. Standard Configuration

Number	Name	Quantity	Remarks
1	Main Unit	1	
2	Sensor	1	Precision parts
3	Adjustable Support	1	
4	Calibration block	1	

5	Block bracket	1	
6	Charger	1	
7	USB charging cable	1	
8	Operating manual	1	
9	Certificate	1	
10	Guarantee card	1	
11	Instrument container	1	
12	Software	1	

V. Optional configuration

	JITAI55 -Extension rod. Used to extend length of sensor when testing deep hole (55mm)
	JITAI90 -Right angle measuring mechanism.
	JITAI100 -standard sensor , plane & shaft & inner surface of hole>6mm, depth <22mm
	JITAI120 -small hole sensor , cylindrical& plane &inner surface of hole>2 mm, depth <9mm
	JITAI110 -sensor for curved surface & plane, cylindrical, curvature radius>3 mm
	JITAI131 -sensor for deep groove , cylindrical & plane & groove width>3 mm, depth<10mm
	JITAI520 -Metal(Al)working platform , elevating, convenient and stable for test process.



JITAI620 -Marble substrate working platform,
elevating, V groove, high accuracy to test tiny work
piece.



Roughness comparison block
High quality comparison block of surface roughness
Strict anti-rust treatment process
27 comparison block/set



Mini Pinter
External printer