

JITAI8102 Plus Surface Roughness Tester



I. Introduction

The surface roughness tester is suitable for shop floor use and mobile measurement. Due to the need for a small handheld instrument, its operation is simple, its functions are overall, its measurement is fast, its accuracy is stable, and it is convenient. This tester is used on production sites and can be used to measure the 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 standards. The measurement results are displayed digitally/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) | $ln = lr \times n$ n=1~5 |
| Drive stroke | 1.25-17.5mm |
| Indication Error | No more than $\pm 10\%$ |
| 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 | |

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