

## QUAM RM200 Surface Roughness Tester

### Portable Surface Roughness Tester RM200

Featuring high accuracy, wide range of application, simple operation and stable performance. It is widely applicable in testing surfaces of all kinds of metals and non-metals. Integrating pick up with the main unit, it is a hand-held set, especially suitable for using on production sites

#### A. Introduction

The product is a new portable Surface Roughness Tester developed by our company. Featuring high accuracy, wide range of application, simple operation and stable performance. It is widely applicable in testing surfaces of all kinds of metals and non-metals. Integrating pick up with the main unit, it is a hand-held set, especially suitable for use on production sites.

#### B. Features

- Appearance using pull aluminum mould design, durable, anti-electromagnetism interference ability significant, accord with current design new trend.;
- By using high-speed DSP processors for the data processing and calculation, measuring and calculation speed is greatly improved;
- Liquid crystal adopts popular OLED display, high brightness, no perspective, wide temperature. It is suitable for various applications;
- Using lithium ion rechargeable batteries, it can work long hours with no memory effect. It also can work with charging. Charging time is short, while the battery life is long;
- Use the common USB interface to charge and communication. Use special charger or the computer USB port of charge. It's convenient and quick.;
- Dot matrix LCD display, interface message is rich;
- Real-time monitoring of lithium battery power and display, electric charge and timely remind users;



#### C. Technical Parameters

- Measurement Parameters ( $\mu\text{m}$ ) : Ra, Rz, Rq, Rt
- Stroke Length (mm) : 6
- Sampling Length (mm) : 0.25, 0.80, 2.50
- Evaluation Length (mm) : 1.25, 4.0
- Measurement Range ( $\mu\text{m}$ ) : Ra: 0.05 ~ 10.0; Rz: 0.1 ~ 50
- Error of Indication:  $\pm 15\%$
- Variation of Indication:  $< 12\%$
- Touch needle tip arc radius and angle of the sensor:  
Tip arc radius:  $10\mu\text{m} \pm 1\mu\text{m}$
- The sensor touch needle static force measurement and its rate :
- Touch needle static force measurement:  $\leq 0.016\text{N}$
- Force measurement rate:  $\leq 800\text{N/m}$
- Sensor guide head pressure:  $\leq 0.5\text{N}$
- Battery: 3.7V Lithium Ion battery
- Dimension: 106 mm x 70 mm x 24 mm
- Weight: 200g
- Working Environment Conditions : Temperature:  $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$