Portable Surface Roughness Tester DR100
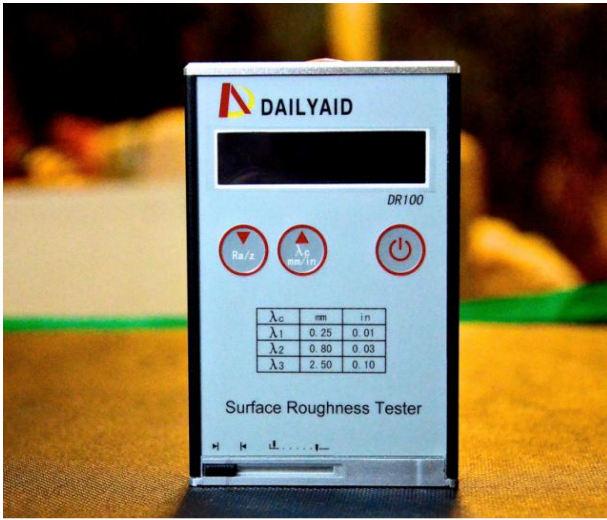

Function

◎Surface roughness test on metal and nonmetal work-piece
◎Applied to a variety of machined parts, machinery processing and manufacturing, testing, inspection and so on
◎Site inspection of large work-piece and the production line
◎The outgoing test of detection, measurement, inspection and other department, and will not damage the workpiece.

Technical Parameters

	DR100
Measuring parameter (μm)	Ra, Rz, Rq, Rt
Measuring Range (μm)	Ra, Rq: 0.05~15.0 Rz, Rt: 0.1~50
Sampling Length (mm)	0.25, 0.80, 2.50
Evaluation Length (mm)	1.25, 4.0
Stroke Length (mm)	6
Indication Accuracy	0.01
Indication Error	±(7-10)%
Indication Fluctuation	<12%
Sensor stylus tip arc radius and angle	Sensor stylus tip arc radius: 10μm±1μm Angle: 90°
Static measurement force of the sensor stylus and the change rate of the substrate	Sensor Stylus static measurement force≤0.016N
Sensor head guide pressure	≤0.5N
Battery	3.7V lithium-ion battery
Dimension	106mmx70mmx24mm
Weight	200g
Operation Conditions	Temperature -20℃~40℃ Relative Humidity <90% With no vibration, no corrosive media around

Involving industry

Machining, auto parts, transmission device, hydraulic equipment, accessories for machine tool, roller, axle, die casting, textile machinery, medical instrument and other industries

Measuring workpiece

Not only can measure the flat surface, outer and circular cone surface which diameter is greater than 20mm (empirical value), but also can measure the length and width of the groove which is greater than 80x30mm.

Instrument feature

◎A variety of measurement parameters (μm), Ra, Rz, Rq, Rt
◎Standard specimens adopt optical glass substrate, which is identified by the National Institute of Metrology with high precision, hard to scratch and a long life.
◎With calibration function, easy to operate
◎By using high-speed DSP processors for the data processing and calculation, measurement and calculation is faster and more accurate.
◎Display on dot matrix OLED monitor, with high brightness, no perspective, and wide temperature, which is suitable for every application.

◎Automatic shutdown, software and hardware lower power consumption design make the instrument operate longer.

◎Two methods of charging, with dedicated charger or computer USB interface. The instrument can be used while charging conveniently.

◎The sensor probe is with protective door, which protects the sensor probe effectively, and guarantees the accuracy of the measurement.

◎Shape with pull aluminum mold design, durable, with significant anti-electromagnetic interference capability, and in accordance with the new trend of current design.

Standard Configuration

◎Roughness Tester Host
◎Multi-groove calibration specimen (Optical glass substrate)
◎Calibration Specimen Holder
◎Charger
◎Instructions
◎Certificate
◎Warranty Card

Warranty: for 12 months.