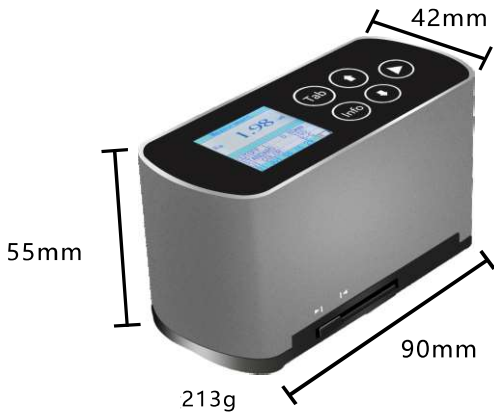
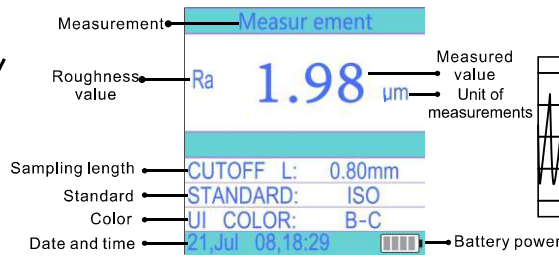


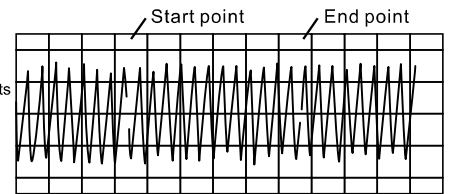
# MSR160



## Function interface



## Technical principles



## Features

1. The shape is designed by drawing aluminum mold, which is sturdy and durable, and has remarkable anti-electromagnetic interference ability.
2. High-speed DSP processor is used for data processing and calculation, which greatly improves the speed of measurement and calculation.
3. The display liquid crystal adopts the popular LCD display, with high brightness and no dead angle, which is suitable for various occasions.
4. The lithium-ion rechargeable battery is adopted, which can work for a long time without memory effect. It can work while charging. The charging time is short and the battery life is long.
5. Equipped with upper computer software to provide comprehensive data interaction.
6. The full-band graphic display is convenient for the operator to check the actual surface condition of the measured part.

## Brief introduction

MSR160 Portable Roughness Tester is a new generation of pocket-sized portable surface roughness tester launched by our company. It has the characteristics of high measurement accuracy, wide measurement range, simple operation, easy portability, stable operation, etc. It can be widely used in the detection of various metal and non-metal machined surfaces. The instrument is a pocket-sized instrument with integrated sensor host. It has the characteristics of hand-held and is more suitable for use in the production site.

## Product technical parameters

Measurement parameters( $\mu\text{m}$ )	Ra, Rz, Rq, Rt	Stroke length (mm)	5.6
Sampling length (mm)	0.25, 0.80, 2.50	Evaluation length (mm)	1.25, 4.0, 5.6
Measurement range ( $\mu\text{m}$ )	Ra, Rq: 0.05 ~ 10.0 Rz, Rt: 0.1 ~ 50	Indication error	$\pm 10\%$
Indication variability	< 12%	Arc radius and angle of sensor stylus tip	Tip arc radius: $10 \mu\text{m} \pm 1 \mu\text{m}$ Angel: $90^{\circ}_{-10}$
Power supply	3.7V Lithium battery ion	Sensor guide head pressure	$\leq 0.5\text{N}$
Static measuring force of sensor stylus and its change rate	Stylus static force: $\leq 0.016\text{N}$ Force change rate: $\leq 800\text{N/m}$	Working environment conditions	Temperature: $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$ No vibration and corrosive medium around Relative humidity: < 90%

## Standard configuration

Name	Quantity	Name	Quantity
Roughness tester host	1	User manual	1
Calibration block	1	Certificate	1
Charger	1	Warranty card	1
USB charging cable	1	Instrument card	1