



KLABS KDST-5 Digital Surface Roughness Tester (Handy Surf)



Product Description

KLABS Digital Surface Roughness Tester (Handy Surf) is a portable precision instrument designed for fast and accurate surface roughness measurement. It delivers reliable, repeatable results for quality control, inspection, and manufacturing applications.

Features

- Shows the Pressure of the Stylus
- Shows All the Parameters of All Conversions
- High Repeatability and Accuracy

Application/Uses

- Surface Roughness Testing
- Quality Control Laboratories
- Manufacturing Industries
- Automobile Industry
- Aerospace Industry
- Defence Applications
- Research & Development
- Heavy Industries



NOTE : PRODUCT COLOUR MAY VARY

Technical Specifications

Parameter	Specification
Product Name	Digital Surface Roughness Tester (Handy Surf)
Model Number	KDST-5
Detection Principle	Inductive
Maximum Drive Travel	≤ 17.5 mm
Measuring Range	320 μm
Measuring Range	Ra, Rq: 0.005 μm ~ 32 μm; Rz, Ry, Rt, Rp, Rm: 0.02 μm ~ 320 μm; Rsm, Rs: 1 mm; Rmr: 0~100%
Needle Tip Radius	5 μm
Accuracy	0.001 μm
Needle Tip Material	Diamond
Value Error	≤ ±8%
Measured Force	≤ 4 mN
Value Variability	≤ 5%
Needle Stylus Angle	90°
Power Supply	Built-in lithium-ion rechargeable battery / External power adapter
Leader Longitudinal Radius	45 mm
Data Output	Bluetooth / USB
Parameter Measurement	Ra, Rq, Rz, Rt, Rp, Rv, RS, RSm, Rsk, Rku, RPc, Ry, Rmax, R3z
Sample Length	0.25 mm, 0.80 mm, 2.50 mm
Evaluation Length	1L~5L optional (L is the sample length)
Overall Size	156 mm × 55 mm × 46.5 mm
Instrument Weight	≤ 398 g
Work Environment	Temperature: -20°C ~ 40°C; Relative Humidity: <90%; No vibration, no corrosive medium around