

## Portable Surface Roughness Tester TR110

TR110 is the newest model among our portable surface roughness testers, still maintaining an excellent price/quality ratio at a compact package for measuring surface texture conforming to traceable standards. It can be used on the shop floor in any position, horizontal, vertical or anywhere in between.

A new feature for TR110 is a protective slid to cover the pick-up sensor while not in use. The large LCD display shows either roughness parameter Ra or Rz at the touch of a button, combined with the selected cut-off length. External calibration of roughness values is possible by means of a special CAL button, which makes adjustment of this instrument very easy. A beep signal informs the user of each individual measurement status when ready.

The easy to use TR110 operates on various surfaces, not only flat but also outer cylinder, outer cone, grooves, and recesses greater than 80 X 30mm. The areas of application are wide spread. This unit is most suitable for inspection departments, quality control, on the shop floor during machining, assembly and on-site.

TR110 determines both roughness parameters Ra and Rz within a wide measuring range (See specifications below). The piezo-electric pick-up stylus with diamond tip assures a very reliable measurement within tolerances in conformance with ISO Class 3. Ra parameter is in conformance to ISO while Rz conforms to DIN standards.

### Special Features:

- Compact design
- Large LCD with backlight
- Protective slide for pick-up sensor
- Excellent Quality-Performance/Price Ratio
- Simple operation
- Operates on various surfaces
- Measurement of Ra or Rz parameters with the touch of a button
- Both Metric & Imperial Modes
- Low battery indication
- Fast charging time (3 hours)
- Durable carrying case

### Technical Specification

Parameters	Ra, Rz
Measuring Range	Ra: 0.05 ~ 10.0 $\mu\text{m}$ Rz: 0.1 ~ 50.0 $\mu\text{m}$
Cut-off Length	0.25, 0.8 and 2.5 mm
Tracing Length	6 mm
Tracing Speed	1.0 mm/sec
Measuring Lengths	1.25, 4.0 and 5.0 mm
Accuracy:	+/- 15%
Repeatability:	<12%
Pick-up:	Piezoelectric
Stylus Tip:	Diamond, radius 5 +/- 1 $\mu\text{m}$ Angle: 90° ( +5° or -10°)
Dimensions	110 X 70 X 24 mm
Weight	200 g
Operating Temperature	0° ~ 40° C
Power Source	3.6V Li-ion Batteries

