

# TR-110 Surface roughness tester



## Features

- Both Ra and Rz parameters in one instrument
- LCD with backlight, dynamic test display: progress bar gives indication of measuring process
- Protection slide on pick-up
- Auto-off after 90 seconds
- Software calibration
- Large measuring range suitable for most materials
- Piëzo-electric pick-up stylus for external surfaces
- Li-ion rechargeable battery
- Sound signal start-test-ready
- Standard conform to ISO and DIN

## Technical specifications

Roughness parameter	Ra, Rz
Units	$\mu\text{m}$ / $\mu\text{inch}$
Measuring range	Ra: 0.05 $\mu\text{m}$ - 10.0 $\mu\text{m}$ , Rz: 0.1 $\mu\text{m}$ - 50 $\mu\text{m}$
Cut-off lengths	0.25mm, 0.8mm, 2.5mm
Evaluation length	1.25mm/4.0mm/5.0mm
Filter	RC analogue
Functions	Dynamic display during testing, sound signal start-test-ready, auto-off 90 seconds, backlight LCD
Calibration	By CAL function
Min. curvature of cylindrical surface	40mm diameter (V-grooved base)
Tracing length	6mm
Tracing speed	1.0mm/sec
Accuracy	< $\pm$ 15% , Conforms to ISO Class 3
Pick-up stylus	Piëzo-electric
Tracer tip	Diamond, radius : 10 $\pm$ 2.5 $\mu\text{m}$ , Angle: 90° (+5°or -10°)
Ventilation	Grade 3
Operating temperature	0°C - 40°C
Power	3.6 V / Li-ion battery low battery indication
Charger	6V DC (rechargeable while working)
Dimensions	110mm x 70mm x 24mm
Weight	200gr

## Standard delivery

- Instrument
- Protection cover for tracer
- Roughness test plate Ra
- Charger
- Carrying case
- Manual



## Order details

**TR-110** Surface roughness tester for external surfaces and grooves with LCD backlight display