

# TR540 Surface Roughness Tester



## FEATURES

- ARM processor for control and data processing, fast speed, low power consumption;
- Real-time data transfer operating system, supports multi-task parallel processing;
- Large range with multiple parameters;
- 128\*64 high brightness OLED display, self-illuminating and full Angle of view
- Detailed display of measurement values, intuitive, can display all parameters and graphics;
- Built-in rechargeable lithium battery;
- Low battery indication icon, prompts users to charge battery in time;
- Large capacity data storage, the instrument FLASH can store 200 groups of original data and waveform;
- Scalable Micro SD and storage, up to 16G;
- Compatible with a variety of optional sensors: standard sensor, small hole sensor, groove sensor, deep groove sensor;
- Optimized sensor structure for stable measurements;
- USB interface to connect computer and printer, can realize embedded software online upgrade;
- Compatible with ISO, DIN (Germany) JIS (Japan), ANSI National Standards.

## APPLICATION

TR540 is widely used in machining, aerospace, auto parts, communications, power plants, electronics and other industries. It is also suitable for universities, scientific research institutes, technical supervision bureau, special prosecutor's court etc.

## TECHNICAL PARAMETERS

Particulars	
Parameters	Ra, Rz, Ry, Rq, Rt, Rp, Rv, Rmax, R3z, RSk, RS, RSm, Rmr
Range of measurement	± 20μm, ± 40μm, ± 80μm
Maximum Display Resolution	0.001μm
Filter	RC, PC-RC, GAUSS, D-P
Length of sampling	0.25mm, 0.8mm, 2.5mm
Maximum drive stroke	17.5mm / 0.7 inch
Minimum drive stroke length	1.3mm 0.052 inch
Error of indication	≤ ± 10%
Indicates value variability	≤ ± 6%
Mode of display	128 X 64 OLED Lattice liquid crystal (spontaneous light)
Power source	Built-in rechargeable lithium battery
Overall dimensions	140mm x 52mm X 48mm
Weight	440g

## SENSOR

Sensor performance index	
Principle of detection	Inductance type
Range of measurement	160μm
Radius of stylus tip	5μm
Needle tip material	Diamond
Measuring force	4mN(0.4gf)
Stylus tip angle	90°
Radius of skid curvature	45mm

## STANDARD CONFIGURATION

Name	Qty.
Host machine	1 pc
Standard Sample Plate	1 pc
Sensor Jacket	1 pc
RS 100 Standar Sensor	1 pc
Power Adaptor	1 pc
Packing List	1 pc
Calibration certification	1 pc