## TIME® TR3220 Portable Roughness Tester



The New TIME® TR3220 is an advanced stylus surface roughness measuring instrument with an integrated drive unit. It supports 45 kinds of roughness parameter measurements with high accuracy and a wide testing range to 400µm.

## **Features**

- Integrated design, easy and convenient to use
- V-shaped bottom can be used on flat or curved surfaces
- Touch screen with TFT LCD showing all important data and graphs
- High accuracy inductive sensor probe
- · Filtering methods of 2RC, GAUSS
- Compatible with standards ISO1997, ANSI and JIS2001
- Connectivity to TIME TA230 printer to print all data and graphs
- RS232 interface and USB interface meeting more needs
- Auto switch off

## **Technical Specifications**

Test principle	Inductance type
Measurement range	400μm
Measurement parameters	Ra、Rp、Rv、Rt、Rz、Rq、Rsk、Rku、Rc、RPc、RSm, Rmr(c)、tp、Rmr、Rpm、Rz1max、RzJIS、Rmax、Htp、Rδc,R△q、R△a、Pa、Pp Pv、Pt、Pz Pq、Psk、Pku Pc、PSm、Pmr(c)、Pmr、Pz1max、PzJIS Pδc、P△q Rk、Rpk、Rvk、Mr1、Mr2、A1、A2
Stylus tip radius	5μm /2μm
Stylus tip material	Diamond
Measuring force	4mN / 0.75 mN
Stylus tip angle	90° / 60°
Radius of skid curvature	45mm
Maximum drive range	19mm/0.748inch
Traversing speed	Measuring:
	Cut off length = 0.08 mm Vt=0.25 mm/s
	Cut off length = 0.25 mm Vt=0.25mm/s
	Cut off length = 0.8 mm Vt=0.5 mm/s
	Cut off length = 2.5mm Vt=1mm/s
	Returning V=1mm/s



Accuracy	Less than or equal to ±10%
Repeatability	≤6%
Cut-off length	0.08mm, 0.25mm, 0.8mm, 2.5mm - Selectable
Evaluation length	(1~5) L Selectable
Measuring range and resolution	Measuring Range Resolution
	Automatic 0.001µm,0.008µm
	±50µm 0.001µm
	±200µm 0.008µm
Power Built-in Li battery	Li battery
Power adapter	Input: 100 V~240VAC, 50/60Hz
	Output: 9V,3A
Working environment	Temperature: 0°C – 40°C
	Humidity: < 90% RH
Dimensions (mm)	155.4mm x 75mm x 53mm
Weight (g)	580g

## **Packing List**

TIME® TR3220 Portable Roughness Tester	
Standard Pickup	
Standard Sample	
Power Adapter	
Communication Cable	
Protection Cleeve	
TIME Calibration Certificate	
Warranty Card	
Instruction Manual	



