



Features

- Separated design, mini driver easy and convenient to use
- Multi measurement parameters: Ra, Rp, Rv, Rt, Rz, Rq, Rsk, Rku, Rc, RPc, RSm, Rmr(c), tp, Rmr, Rpm, Rz1max, RzJIS, Rmax, Htp, R δ c, R Δ q, R Δ a, Pa, Pp, Pv, Pt, Pz, Pq, Psk, Pku, Pc, PSm, Pmr(c), Pmr, Pz1max, PzJIS, P δ c, P Δ q, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2
- Touch screen with TFT LCD showing all important parameters and graphs
- High accuracy inductive pickup
- Filtering methods of 2RC, GAUSS
- Compatible with standards of ISO1997, ANSI and JIS2001
- Connected to the printer to print all parameters and graphs
- RS232 interface and USB interface meeting more needs
- Auto switch off

TIME[®]3221

SURFACE ROUGHNESS TESTER

Standard Delivery

•Main unit	1
•Standard pickup TIMES201	1
•Ra specimen	1
•Power adapter	1
•Connection cable	1
•Driver	1
•Power Adapter	1
•Magnetic base	1
•TIME certificate	1
•Warranty card	1
•Instruction manual	1

Technical specification

Pickup		
Test principle	Inductance type	
Measurement range	400 μ m($\pm$ 200 μ m), 50 μ m($\pm$ 25 μ m)	
Stylus tip radius	5 μ m/2 μ m optional	
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 $\pm$ 10%	
Repeatability	$\leq$ 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	0.001 μ m,0.008 μ m
	$\pm$ 50 μ m	0.001 μ m
	$\pm$ 200 μ m	0.008 μ m
Power	Built-in Li battery	
Power adapter	Input: 100 V~240VAC,50/60Hz Output: 9V,3A	
Working environment	Temperature: 0 $^{\circ}$ C~40 $^{\circ}$ C Humidity: < 90% RH	
Dimensions (mm)	155.4 $\times$ 75 $\times$ 53	
Weight (g)	580	