

Portable Surface Roughness Tester Qualisurf II / IIS

ISO1997, ANSI, JIS2001

www.WorldofTest.com/qualisurf-ii-portable-surface-roughness-tester

Applications

QualiSurf II surface roughness tester is suitable for the scientific labs, factory metrology rooms and working site. It can test the surface roughness of various machining components and allows for user selectable 45 roughness units in Ra, Rz etc. The testing results and surface profile can be stored in QualiSurf II unit and be output to PC.

Besides QualiSurf II, Qualitest also offers QualiSurf IIS which has an external transducer with extended connection cable. QualiSurf IIS is suitable for measuring the surface roughness inside the pipes and tubes.

Qualisurf II / IIS can be used in: Automobile industry, Manufacturing of mechanical parts and gearing, Facilities for metal processing and accessories and functional parts of lathe, Universal machine and metal moulding equipment, Surface polishing and treatment, Metallurgy, rolling and forging equipment, Pneumatic and hydraulic elements and pressure vessel, Foundry of mould Press, packing, light industry and spinning machine, and medical appliance, Petroleum/chemical engineering, coal and cement machine, agriculture mechanism, Pharmaceutical machine, Equipment of electric power, auto-control, electronic communication, Aviation and Aero business, Research Universities, Paper-making industry, Ceramics industries, piezoelectric ceramics, electric ceramics, porcelain, high-aluminum ceramic stick epoxy, polyethylene, Canal of liquid, compound glass fiber silence-tube, Construction business such as Alloy doors and windows, door handles, Chair parts, surface of stainless steel cup and dishware, exterior of taps, Crystal, carbon silicon, graphite, diamonds film, magnet, Chrome-plating battery, canister of telescope, Copper-foil stationary, hard alloy ball, base for ball, auto-pencil lead, Medical equipment and clothing-making machine.

Qualisurf II / IIS can be used in: Automobile industry, Manufacturing of mechanical parts and gearing, Facilities for metal processing and accessories and functional parts of lathe, Universal machine and metal moulding equipment, Surface polishing and treatment, Metallurgy, rolling and forging equipment, Pneumatic and hydraulic elements and pressure vessel, Foundry of mould Press, packing, light industry and spinning machine, and medical appliance, Petroleum/chemical engineering, coal and cement machine, agriculture mechanism, Pharmaceutical machine, Equipment of electric power, auto-control, electronic communication, Aviation and Aero business, Research Universities, Paper-making industry, Ceramics industries, piezoelectric ceramics, electric ceramics, porcelain, high-aluminum ceramic stick epoxy, polyethylene, Canal of liquid, compound glass fiber silence-tube, Construction business such as Alloy doors and windows, door handles, Chair parts, surface of stainless steel cup and dishware, exterior of taps, Crystal, carbon silicon, graphite, diamonds film, magnet, Chrome-plating battery, canister of telescope, Copper-foil stationary, hard alloy ball, base for ball, auto-pencil lead, Medical equipment and clothing-making machine.



Features

- Multi-parameter measuring: Ra, Rp, Rv, Rt, Rz, Rq, Rsk,
- Rku, Rc, R_{Pc}, R_{Sm}, R_{mr(c)}, tp, R_{mr}, R_{pm}, Rz1max, RzJIS, R_{max}, H_{tp}, R_{dc}, R_{Δq}, R_{Δa}, Pa, Pp, Pv, Pt, Pz, Pq, Psk, Pku, Pc, P_{Sm}, P_{mr(c)}, P_{mr}, Pz1max, PzJIS, P_{dc}, P_{Δq}, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2
- Touch screen / TIFT coloured LED display
- High accuracy inductance pickup
- Filtering methods of 2RC, GAUSS
- Conforms to standards of ISO1997, ANSI and JIS2001
- Display showing all parameters values and graphs after measurement
- Can be connected to PC or mini printer to print all parameters and graphs
- Both USB port and RS232 interface
- Automatic switch off



Toll-Free: 1.877.884.TEST (8378) | Fax: 954.697.8211



info@qualitest-inc.com | www.WorldofTest.com



USA Canada UAE Mexico India Hong Kong

Technical Specifications

Test Principle	Inductance type	
Measurement Range	400µm	
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
	±400µm	0.008µm
Power	Built-in Li battery	
Power adapter	Input: 100 V~240VAC, 50/60Hz Output: 9V, 3A	
Working environment	Temperature: 0°C~40°C Humidity: < 90% RH	
Storage and transport environment	Temperature: - 40°C ~ 60°C Humidity: < 90% RH	
Dimensions	155.4x75x56mm	
Weight	Approximately 760g	

Part No.	Description	Unit Price in USD
QualiSurf II	QualiSurf II - Portable Surface Roughness Tester Standard Configuration includes: <ul style="list-style-type: none"> • QualiSurf II main unit • Standard pickup stylus transducer • Calibration certificate • Roughness standard block • Software and communication cable • Levelling support • Protective nose • Battery charger • Screw driver 	\$ 2,300.00 US
QualiSurf II-S	QualiSurf II - S Portable Surface Roughness Tester Standard Configuration includes: <ul style="list-style-type: none"> • QualiSurf II-S main unit 	\$ 2,500.00 US



Toll-Free: 1.877.884.TEST (8378) | Fax: 954.697.8211



info@qualitest-inc.com | www.WorldofTest.com



USA Canada UAE Mexico India Hong Kong

	<ul style="list-style-type: none"> • Standard pickup stylus transducer • Probe driver • Connection cable for transducer to the QualiSurf II-S unit • Calibration certificate • Roughness standard block • Software and communication cable • Portable Magnetic base with fixture • Battery charger • Screw driver 	
	Optional Accessories	
TSE-10-50	TSE Regular Extension – 10 mm bore minimum – Length 50 mm	\$ 480.00 US
TSE-B-90	TSE-B – 90 Degree Extension rod	\$ 518.00 US
TA610/620	Supporting Stand TA610 / TA620 with Marble Base	\$ 1,275.00 US
Adaptor-L-TA610	L shaped adaptor for TA610 stand	\$ 143.00 US
RRS	Regular roughness standard	\$ 345.00 US
NIST-RS	NIST traceable roughness standard (PRSC block) * two Ra values on this metal block	\$ 1,013.00 US
ANSI-CC	ANSI calibration certificate for surface roughness testers	\$ 368.00 US
TR-200-Battery	Rechargeable battery for TR200	\$ 218.00 US
TR-200-B.Charger	Battery charger	\$ 128.00 US
	Carrying case for QualiSurf II	\$ 134.00 US
	Carrying case for QualiSurf IIS	\$ 203.00 US
	Portable magnetic base with 360 deg fixture	\$ 848.00 US
	Pick up Stylus driver for QualiSurf IIS	\$ 540.00 US
	S200 (standard)	\$ 1,343.00 US
	S210 (Curve surface)	\$ 1,493.00 US
	S211 (ID surface)	\$ 1,493.00 US
	S212 (Groove)	\$ 1,793.00 US

Please Note:

Qualitest is always dedicated to the innovation and improvement of product performance and function. Therefore, technical specifications are subject to change without further notice. Please visit our website at www.worldoftest.com for the latest updates. Qualitest reserves the rights of final interpretation and revision

Note : Prices for accessories are valid only when ordered with the main unit
 Prices : Ex Works Plantation FL, USA / Richmond Hill, ON, CA /
 or nearest Distribution Center – depending upon availability
 Delivery : Approx. 1-2 weeks depending on stock availability
 Warranty : 12 months limited



Toll-Free: 1.877.884.TEST (8378) | Fax: 954.697.8211



info@qualitest-inc.com | www.WorldofTest.com



USA Canada UAE Mexico India Hong Kong