

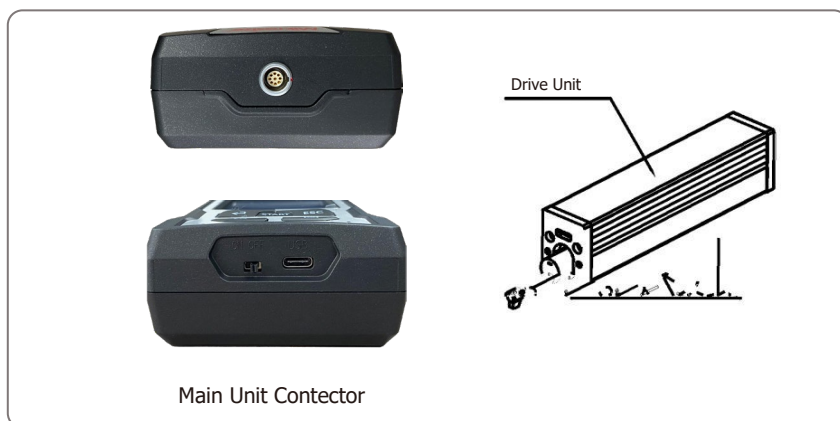
PORTABLE SURFACE ROUGHNESS TESTER CODE:iSurfa-520

- Standards: ISO, DIN, ANSI, JIS
- Multi-parameters: Ra, Rz, Rq, Rq (duplicate entry, likely a typo for another parameter such as Rp or Rsm), Rt, Rp, Rv, Rz, Rz, Rz(JIS), Rs, Rsk, Rsm, Rku, uRc, Ry, Rmax, Rmr
- Large Measuring Range: 160µm
- Color Display Screen with Capacitive Touch Interface
- Rich Display Information: Displays all parameters and graphical representations
- Connectable to PC and Printer
- Printing Capability: Can print all parameters or any user-defined parameters
- 6000mAh Lithium-ion Battery



STANDARD DELIVERY

Main Unit	1
Sensor	1
Calibration block	1
Block bracket	1
Extension cable	1
Touch pen	1
Charger	1
USB charging cable	1
Operating manual	1
Certificate	1
Guarantee card	1
Instrument container	



OPTIONAL DELIVERY

Curved Surface Sensor	
Small Hole Sensor	
Deep Groove Sensor	
Extension Rod	
Adapter Rod	
Marble Platform	
Small Platform	
Lift Drive Unit Stand	



Standard Sensor



Small Hole Sensor



Extension Rod



Curved Surface Sensor



Deep Groove Sensor



Adapter Rod



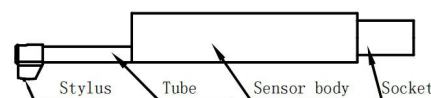
Marble Platform



Small Platform



Lift Drive Unit Stand

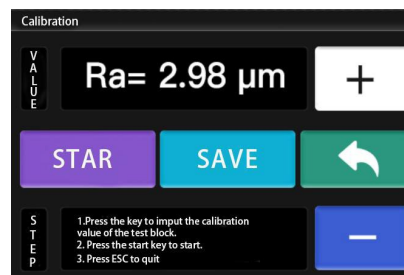


PORTABLE SURFACE ROUGHNESS TESTER

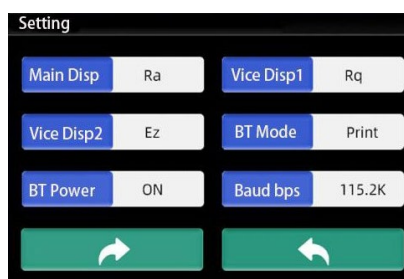
CODE:iSurfa-520

TECHNICAL SPECIFICATION

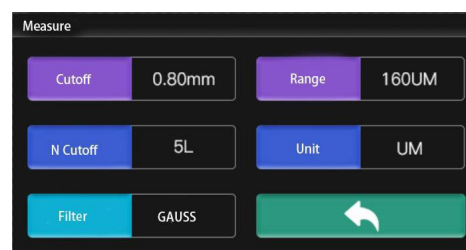
Measurement Range		The Z axis (Vertical):320μm;The X axis (Horizontal):17.5mm
Resolution ratio		0.01μm/±20μm
The Z axis (vertical)		0.02μm/±40μm
		0.04μm/±80μm
Measure- ment item	Parameter	Ra,RzRq,Rt,Rc,Rp,Rv,R3z,R3y,Rz(JIS),Ry,Rs,Rsk,Rku,Rmax-,Rsm,Rmr,RPc,Rk,Rpk,RvkMr1,Mr2
	Standard	ISO4287,ANSI B46.1,DIN4768,JISB601
	Graphic	Primary profile, Roughness profile, load curves
Filter		RC,PC-RC,Gauss,D-P
The sampling length(lr)		0.25,0.8,2.5mm
Assessment length(ln)		Ln= lr×n n=1~5
Sensor	Principle	The displacement differential inductance
	Stylus	Natural Diamond, 60B cone angle, 2μm tip radius
	Dynamometry	<4mN
	Skid	Ruby,Longitudinal radius 40mm
	Taxiing speed	lr=0.25, Vt=0.135mm/s lr=0.8, Vt=0.5mm/s lr=2.5, Vt=1mm/s Back, Vt=1mm/s
Accuracy		0.001um
Indication error		No more than 10%
Indication variability		No more than 6%
Power supply		6000mAh Lithium ion battery,Charger :DC5V
Size (L*W*H)	Display Unit	161*80*40mm
	Drive Unit	22*26*114mm
Weight		About320g
Working Environment		Temperature:-20°C~40°C,Humidity:<90%RH
Store and Transportation		Temperature:-40°C~60°C ,Humidity:<90%RH



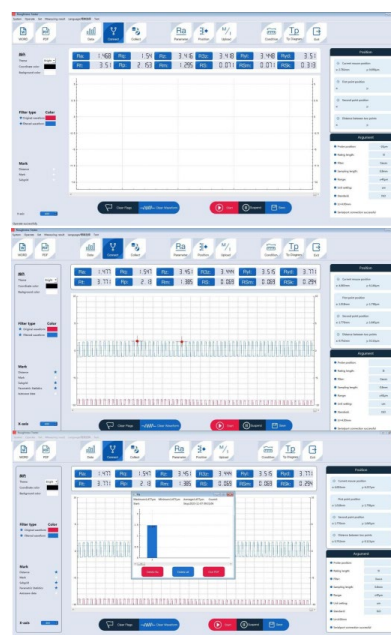
Calibration Interface



Parameter Setting



Measurement Parameter



Dataview of Software

RECOMMENDED SAMPLING LENGTH TABLE

Ra(μm)	Rz(μm)	Sampling Length λc(mm)
>5~10	>20~40	2.5
>2.5~5	>10~20	
>1.25~2.5	>6.3~10	0.8
>0.63~1.25	>3.2~6.3	
>0.32~0.63	>1.6~3.2	
>0.25~0.32	>1.25~1.6	0.25
>0.20~0.25	>1.0~1.25	
>0.16~0.20	>0.8~1.0	
>0.125~0.16	>0.63~0.8	
>0.1~0.125	>0.5~0.63	
>0.08~0.1	>0.4~0.5	
>0.063~0.08	>0.32~0.4	
>0.05~0.063	>0.25~0.32	
>0.04~0.05	>0.2~0.25	
>0.032~0.04	>0.16~0.2	
>0.025~0.032	>0.125~0.16	
>0.02~0.025	>0.1~0.125	