

## Surface Roughness Tester

**S**urface Roughness Tester is widely used in production site to measure surface roughness of various machinery-processed parts, calculate corresponding and clearly display all measurement parameters.

Specifications		Ordering Information	
		BGD 930	BGD 931
Standard		ISO4287,DIN4768,JIS B,ANSI 146.1	
Measuring range	Ra	0.005 ~ 16μm/1.000 ~ 629.9μinch	0.050 ~ 10μm/1.000 ~ 400.0μinch
	Rq	0.005 ~ 16μm/1.000 ~ 629.9μinch	-----
	Rz	0.020 ~ 160μm/0.780 ~ 629.9μinch	0.020 ~ 160μm/0.780 ~ 629.9μinch
	Rt	0.020 ~ 160μm/0.780 ~ 4000μinch	-----
Accuracy		≤ ± 10%	
Resolution		0.001μm ( reading < 10μm )	
		0.01μm ( 10μm ≤ reading < 100μm )	
		0.1μm ( reading ≥ 100μm )	
Fluctuation of display value		≤ 6%	
Profile digital filter	Filtered profile	RC,PC-RC,GAUSS	-----
	Non- filtered profile	D-P	-----
Sensor	Radius	5μm	10μm
	Material	Diamond	Diamond
	Measuring force	4mN ( 0.4gf )	16mN ( 1.6gf )
	Probe angle	90°	90°
	Vertical radius of guiding head	48mm	48mm
	Maximum driving stroke	17.5mm/0.75inch	
	Cutoff length	0.25mm,0.8mm,2.5mm	
Driving speed	Measuring	Sampling length = 0.25mm When Vt=0.135mm/s	
		Sampling length = 0.8mm When Vt=0.5mm/s	
		Sampling length = 2.5mm When Vt=1mm/s	
Returning	Vt=1mm/s		
Evaluation length		1 ~ 5L selectable	
Metric/Imperial		Conversion	
Auto off		√	
Memory		7 Groups	-----
Pc interface		RS-232C	-----
Built in Li-ion battery		Rechargeable	
Operating condition	TEMP	0 ~ 50°C	
	Humidity	< 85%RH	
Dimension		140 × 52 × 48mm ( 5.5 × 2.2 × 1.9inch )	
Net weight		420g	



BGD 930



BGD 931

### Optional accessories:

- BGD 1290---RS-232 or USB cable
- BGD 1291---Software
- BGD 1292---Sensor for deep groove
- BGD 1293---Sensor for curve surface
- BGD 1294---Measuring stand