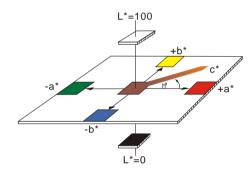
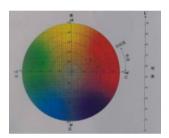


The human eye is capable of differentiating several million colors, despite this subjective visual evaluation, when used for quality control purpose, is no longer preferred as it suffers from a lack of real quantifiable data and inconsistent documentation. Since the early 1930's many scientific measuring techniques have been developed by National Standard Organisations, among them the CIE (International Committee of Light), based on a logical numeric scaling where physical parameters and calculations have been clearly defined, universally accepted and adopted. As a result, many methods are today perfectly proven, and governed by major standard such as ASTM, BS,DIN, or ISO etc.

Colorimeters use the mathematically defined light sources and observers described above to measure colors under precisely defined measuring geometries and output the requested data to their display, printer or computer.





Economic Portable Colorimeter

B GD 551 Economic Portable Colorimeters offer a simple and fast measurement for color difference between two samples. It's a higest cost performance colorimeter and very suitable for QC inspection of production and construction site.

- Double Locating: Illuminating locating and cross locating
- Double Measurement End Face: Large area measurement and small area measurement
- New Integrating Sphere Design: More stable measurement
- Equipped with Rechargeable High-Capacity Li-ion Battery

Feature and Advantages

- Built-in white plate parameters. No need to calibrate each time which realize rapid measurement.
- Double Locating: Illuminating locating and precise cross locating.
- Switchable Double Measurement End Face: Large stable end face and small concave-convex end face.
- New Integrating Sphere Optical Path Design: Eliminating the stray light of main optical path and auxiliary optical path. Possessing the highest measurement stability and precision.
- 4mm Measuring Aperture.
- Equipped with rechargeable high-capacity Li-ion battery. No need to purchase battery repeatedly.
- Configure CQCS3 software. Connect PC computer to realize more functions.
- Having got SCM Metrological Certification, CE Certification, and ISO9001 Quality Management System Certification.
- Hand-head structure: small and convenient; make the measurement easier.
- Spending huge sums on high-end mold. Product consistency approaches 100%.
- High cost performance: large output, good quality, cheap products.







Illuminating Locating



Cross Locating, Large Stable End Face



Small Concave-Convex End Face

	Technical Parameters
Illuminating/Viewing Geometry	8/d
Measuring Aperture	Φ4mm
Detector	Silicon photoelectric diode
Locating	Illuminating Locating/Cross Locating
Measurement End Face	Large stable end-face and small concave-convex end-face
Color Space	CIEL*a*b*C*h*; CIEL*a*b*; CIEXYZ
Color Difference Formula	∆E*a b ∆L*a*b* ∆E*C*h*
Light Source	D65
Light Source Device	LED blue light excitation
Errors Between Each Equipment	≤0.80∆E*a b
Storage	100pcs standards; 20,000pcs samples
Repeatability	Standard deviation within $ riangle E^*$ a b 0.08 (Average of 30 measurements of standard white plate)
Language	English/Chinese
Weight	500g
Dimension	205mm × 67mm × 80mm
Power source	Rechargeable lithium-ion battery 3.7V@3200mAh
Lamp Life	3 years, more than 1.6 million measurements
Charging Time	8 hours100% electricity
PC Software	CQCS3 Software
Optional Accessories	BGD 1390––– Special test box for powder BGD 1393––– Mini Printer

Ordering Information: BGD 551--- Economic Portable Colorimeter