



One-stop
PURCHASE
Perfect price-performance ratio products
Professional
SERVICE

Precise Computer Colorimeter

BGD 555 & 556 **Precise Computer Colorimeter** have adopted multi-channel color sensors of international brands, more stable IC platform as well as efficient and accurate algorithms to provide users with accurate and fast color management and application. They are also designed with ergonomics and humanized operation and have applied for a number of patents. BGD 555& 556 are multifunctional colorimeters with high quality and competitive price. BIUGED insists on independent research whose technology innovation is unique in color management field. These colorimeters are the most convenient colorimeters for users

◆ **Leading Humanity Design and Convenient Operation**

- ★ Auto White and Black Calibration at Startup (only for BGD 556)
- ★ Structure Design in line with Ergonomics
- ★ Fool-style Operation Interface.

◆ **Stable Measurement Performance**

- ★ The average fluctuation of ΔE is less than 0.06, actually more in 0.03~0.05.
- ★ Portable structure design which is more conducive to keeping the instrument stable when using.

◆ **Flexible and Accurate Locating**

- ★ Camera locating can solve the problem of locating a small area. The minimum width of locating is 4mm (only for BGD 556)
- ★ Illumination locating is a fast, simple and convenient locating function which is the original function by Biuged.

◆ **PC Software Realize More Function Expansion**

- ★ BIUGED has the intellectual property of PC software. The corresponding software serial number and password protection are configured in 3nh colorimeter.
- ★ Be able to perform color difference analysis, color difference cumulative analysis, chromaticity index, color Sample database management, simulating object color, etc.

◆ **Advanced Power Management Design**

- ★ BIUGED is the first enterprise using high capacity Li-ion battery in colorimeter.
- ★ BIUGED Li-ion battery can be repeatedly charged which will save cost. Meanwhile, it can measure more than 3000 times on one charge to ensure the stability of long time measurement.

◆ **More Measurement Modes (Only for BGD 556)**

- ★ Two measuring apertures for more circumstances.
- ★ Five color spaces for more color schemes selection.
- ★ Three light sources for more circumstances.
- ★ SCI & SCE measurement mode.



Camera locating
Illumination locating



Built-in White Plate
Automatic Calibration at Startup



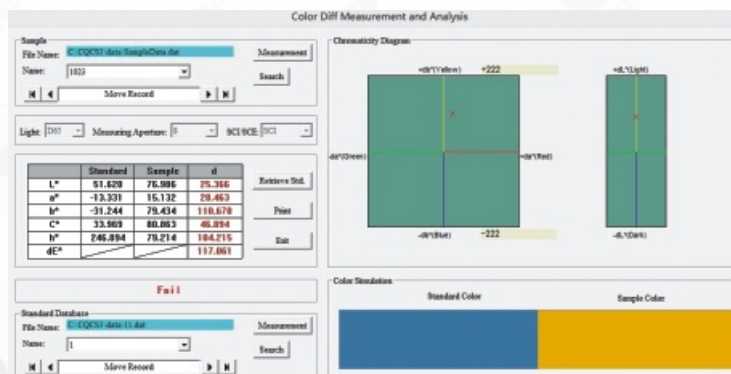
Extended Aperture (Optional)
Available for measuring concave surface



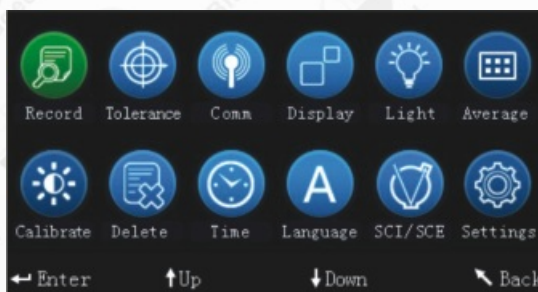
Configuring 8mm & 4mm apertures



Ordering Information → Technical Parameters ↓	BGD 555 Precise Computer Colorimeter	BGD 556 Precise Computer Colorimeter
Illuminating/Viewing Geometry	8° /d	
Measuring Aperture	Φ8mm	Φ8mm/Φ4mm
Detector	Silicon photoelectric diode	
Color Space	CIEL*a*b*C*h* ; CIEL*a*b* ; CIEXYZ	CIEL*a*b*C*h* ; CIEL*a*b* ; CIEXYZ ; CIERGB ; CIEL*u*v* ; CIEL*C*h* ; Yellowness & Whiteness ; Color Fastness
Color Difference Formula	$\Delta E^*a\ b$; $\Delta L^*a^*b^*$; $\Delta E^*C^*h^*$	$\Delta E^*a\ b$; $\Delta L^*a^*b^*$; $\Delta E^*C^*h^*$; ΔE_{CIIE94} ; ΔE_{hunter}
Light Source	D65	D65 ; D50 ; A
Light Source Device	LED blue light excitation	
Errors Between Each Equipment	$\leq 0.40\Delta E^*a\ b$	
Storage	100pcs standards ; 20000pcs samples	
Repeatability (Average of 30 measurements of standard white plate)	Standard deviation within $\Delta E^*a\ b\ 0.07$	Standard deviation within $\Delta E^*a\ b\ 0.06$
Language	English/Chinese	
Weight	500g	
Dimension	205mm × 70mm × 100mm	
Power source	Rechargeable lithium-ion battery 3.7V@3200mAh	
Lamp Life	5 years, more than 1.6 million measurements	
Charging Time	8 hours-- 100% electricity	
Measuring Times Before Recharging	3000 times in 8 hours	
Operating Environment	-10~40°C, relative humidity 0~85% with no condensation	
PC Software	CQCS3 Software	
Data Interface	USB	
Optional Accessories	BGD 1390--- Special test box for powder BGD 1391--- Universal test components BGD 1392--- Φ8mm extended aperture, available for measuring concave surface (Only for BGD 556) BGD 1393--- Mini Printer	



CQCS3 Software



Operation Menu

Sample Measurement	Standard Measure	Locating	Save
L* = 98.72	ΔL* = 0.62	White++	
a* = -10.53	Δa* = 0.82	Red++	
b* = -2.37	Δb* = 0.56	Yellow++	
C* = 10.02	ΔC* = 0.32		
h* = 192.69	ΔH* = -0.41		
	ΔE* = 1.24	Fail	