

# twilight

INSTRUMENTOS DE MEDICIÓN INDUSTRIAL

## Cabina de Evaluación de Color

BL-BGD274

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# BGD 274-275-276

# Color Assessment Cabinet

## INSTRUCTION MANUAL



**Biuged**

**BIUGED LABORATORY INSTRUMENTS (GUANGZHOU) CO.,LTD**

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**Add:** NO.8, Fuhe Industrial Area, Zhongfu Rd., Zhongxin Town,Zengcheng City, Guangzhou City.  
511375. China

**Tel:** ( 0086 ) 20-32955999

**E-mail:** [service@biuged.com](mailto:service@biuged.com)

**Fax:** ( 0086 ) 20-32955818

**Website:** [www.biuged.com](http://www.biuged.com)

*Thank you for your purchase of this Biuged Color Assessment Cabinet . Welcome to Biuged.*

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**Please read this manual before operating this equipment. After you finish reading this manual, store it in a safe place for future reference.**

Provide several light sources, i.e. D65, TL84, CWF, UV, F/A.

Apply microcomputer to switch between the light sources quickly.

Super timing function to record use time of each light source separately.

All fittings are imported, ensuring quality.

## 1.0 Descriptions

BGD series Color Assessment Cabinet, suitable for all industries and applications where there is a need to maintain color consistency and quality. Automotive, Ceramics, Cosmetics, Foodstuffs, Footwear, Furniture, Knitwear, Leather, Ophthalmic, Dyeing, Packaging, Printing, Inks and Textile.

Since different light source has different radiant energy, when they arrive on the surface of an article, different colors display. With regard to color management in industrial production, when a checker has compared the color consistency between products and examples, but there may exist difference between light source used here and light source applied by the client. In such condition, color under different light source differs. It always brings following issues: Client makes complaint for color difference even requires for rejection of goods, seriously damaging company credit.

To resolve the above problem, the most effective way is to check good color under same light source. For example, international practice applies Artificial Daylight D65 as standard light source for checking goods color.

It's very important to use standard light source to check color difference in night duty.

Besides D65 light source, TL84, CWF, UV, and F/A light sources are available in this Lamp Cabinet for metamerism effect.

TL 84	<input type="text"/>
F/A	★ <input type="text"/> ★ <input type="text"/>
D 65	<input type="text"/>
UV	<input type="text"/>
TL 84	<input type="text"/>
F/A	★ <input type="text"/> ★ <input type="text"/>
D65	<input type="text"/>

## 2.0 Lamp Cabinet Performance

2.1 Hepachromic artificial daylight acknowledged by CIE, 6500K color temperature.

2.2 Lighting scope: 750-3200 Luxes.

2.3 Background color of light source is Neutral Grey of absorbance. In using lamp cabinet, prevent outer light from projecting on article to be checked. Don't place any unconcerned articles in the cabinet.

2.4 Making metamerism test. Through microcomputer, the cabinet can switch between different light sources in very short time to check color difference of goods under different light source. When lighting up, prevent lamp from flashing as home fluorescent lamp is lighted.

2.5 Correctly record use time of each lamp group. Especially D65 standard lamp shall be replaced after being used for over 2,000 hrs, avoiding error resulted from aged lamp.

2.6 UV light source for checking articles containing fluorescent or whitening dye, or be used to add UV to D65 light source.

2.7 Shop light source. Oversea clients often require other light source for color check. For example, USA clients like CWF and European and Japan clients for TL84. It's because that goods is sold indoor and is under shop light source but not outer sun light. It's become more and more popular to use shop light source for checking color.

## 3.0 Operation Instructions

3.1 Plug one end of power line into socket at the backside of the lamp cabinet and the other end into electric supply source (electric supply must comply with nominal electricity of the cabinet.) At this time, the display will give information indicating that power is on.

3.2 Press "ON/OFF" key for one time and the Timing will display the total service time of this lamp cabinet.

3.3 Press D65 key again and D65 lamp lit up. The Timing will display the total service time of D65 lamp. In case of pressing F, TL84, or UV key, the corresponding lamp group lit up. And the Timing will display the total service time of this lamp group. In case of using two or more light sources, it's just to press two key or more keys.

3.4 Put articles to be checked at the center of the bottom of the lamp cabinet. When comparing the color of two or more articles, don't observe them by overlapping, but to put them in the cabinet parallel.

3.5 It's appropriate to observe target in reference to Figure I. When light is projecting on article in right angle, checker shall observe the article in 45 angle.

3.6 After working, press ON/OFF key to power-off. Power-off lamp cabinet in case of long-time not use.

3.7 Install new lamp in reference to Figure II or instructions noted on the bottom of lamp. Don't make mistake in positioning lamp. After replacing, zero the use time of new lamp (calculate time from zero) as follows: light up new lamp, extend small screw driver to the central hole of CLR and press the key (the timing of lamps not lit up are not zeroed). Note: Don't press CLR key in case of not replacing lamp, avoiding error zeroing.

## 4.0 Electrical Parameters

Power supply: AC 220V, 50Hz

Power: less than 300W

## 5.0 Lamp Cabinet Maintenance

5.1 Warranty period of lamp cabinet is one year (person's careless damage or lamp aging is not in this scope).

5.2 Replace it in case the internal wall of lamp cabinet is dirties. Replace it in case lamp works over normal time or its ends are blackened. We can provide various standard fittings all the time (note: Fitting shall comply with relevant standard).

## **Needing Attention**

### **1. How can I elongate the use life of lamp?**

The use life of lamp is decided by actual use time and use time. For example, in case user need to use lamp for long time and power on and off lamp and switch functions in a day for many times, the use life of lamp is reduced. When you want power on and off lamp cabinet for several times in an hour, don't power off the lamp cabinet. Generally, powering on lamp is equal to using lamp for one hour. Please power off lamp cabinet in case of not using lamp for long time. In case of unnecessary condition, don't try to switch from different light sources, elongating effective use life of lamp.

### **2. How can I install CWF light source or other light sources?**

**BGD Series Color Assessment Cabinet** are equipped with five different standard light sources, of which 4 are installed on the fixed position in lamp cabinet. Also, the cabinet has 2 CWF lamp that client can install them when they are needed. At that moment, press TL84 key to light up CWF light source. If use CWF light source for long time, write CWF word to pester and past it to the TL84 key. Install other lamps according to the above procedures.

### **. How can I buy a new lamp for replacing or needing other special light sources?**

Lamp tube and bulb used in standard light source cabinet is certified special light source for laboratory, different from common civil light source. Buy new fittings in certified dealer for replacing. We can provide various original fitting and other special light sources, including D65, TL84, CWF, UV, F light sources, and imported fittings for D75, D50, D35, TL83, U30, INCA, HORIZON international standard light sources.

### **4. How to clean dirtied wall of lamp cabinet?**

If the internal wall of lamp cabinet is dirtied with dust or hang print, use clean, white, soft and moistened cloth to wipe the dirty off. Forbidden to use hardarticle to or chemicals in cleaning, avoiding to damage absorbent lay of the inside wall of lamp cabinet.

## **6.0 Light source:**

<b>Light source</b>	<b>Description</b>	<b>Number of Light</b>	<b>Power</b>	<b>Color temperature</b>
<b>D65</b>	International-standard Artificial Daylight	2 pcs	20W	6500K
<b>TL84</b>	Applicable to stores in Europe, Japan and China	2 pcs	18W	4000K
<b>CWF</b>	Cool White Fluorescent	2 pcs	20W	4150K
<b>F/A</b>	Comparison referential light source, Applicable to family/hotel	4 pcs	40W	2700K
<b>UV</b>	Ultraviolet light source	1 pc	20W	Wavelength 365nm
<b>U30</b>	Warm White Fluorescent	2 pcs	18W	3000K

**Optional accessories: BGD 277---45° normative stand** (has accurate angles and has the same color as the Color Assessment Cabinet/this makes a non-interference viewing effect).

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LLÁMANOS

+52(81) 8115-1400 / +52 (81) 8173-4300

LADA Sin Costo:  
01 800 087 43 75

E-mail:  
[ventas@twilight.mx](mailto:ventas@twilight.mx)

[www.twilight.mx](http://www.twilight.mx)



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