

TILO Color Assessment Cabinet

User Manual

P60+ (6 lights) / T60+ (5 lights)



READ BEFORE USE

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

Instructions for Lamp Cabinet

- Light sources provided for **P60+**, i.e., D65, TL84, CWF, F/A, UV, TL83/U30
- Light sources provided for **T60+**, i.e., D65, TL84, CWF, F/A, UV,
- Apply microcomputer to switch between the light sources quickly.
- Super timing function to record use time of each light source separately.
- All fittings and material used are imported. High quality is ensured.

I. Descriptions

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

Since different light source has different radiant energy, when it reaches on the surface of an article, different colors will reflect. With regard to color management in industrial production, when an inspector is comparing the color consistency between products and samples, but there may be color differences due to the light sources used between in the production premises and those used by the client. In this case, color under different light source might result differently. It may create some unnecessary issues that the clients file a claim for color discrepancy or eventually result in rejection of goods, which can affect the company's creditability.

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

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

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

II. Specifications of the Lamp Cabinet

1. Hepachromic artificial daylight acknowledged by CIE, 6500K color temperature.
2. Lighting scope: 750-3200 Luxes.
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.
4. Making metamerism test. Through microcomputer, the cabinet can switch between different light sources in a very short time to check color difference of goods under different light source. When lighting up, lamp flashing will not occur in this cabinet as our home fluorescent lamp is lighted.
5. The use time of each lamp will be recorded correctly. Especially D65 standard lamp shall be replaced after being used for over 2,000 hours to avoid possible error resulted from aged lamp.
6. UV light source for checking articles containing fluorescent or whitening dye, or

be used to add UV to D65 light source.

7. Shop light source. Various clients often require other light source for color check. For example, US clients prefer using CWF whereas European and Japan clients prefer using TL84. It is because the goods are being displayed and sold indoor and are under the shop light source and not under outdoor sun light. It becomes more and more popular to use shop light source for checking color.

III. Operation Instructions

1. Plug one end of power cable 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.) After connecting the power, the display will be lit to indicate that the power is on.
2. Press "ON/OFF" power switch once and the number of use and time will be displayed.
3. Press D65 switch again and D65 lamp will be lit up. The number of use and time will be displayed for D65 lamp. Pressing F, TL84 or UV switch, the corresponding lamps will be lit up and the number of use and time will be displayed accordingly. In case of need of using two or more light sources, simply press two or more lamp switches as desired.
4. Put the articles to be checked at the center of the bottom of the lamp cabinet. When comparing the color of two or more articles, do not observe them by overlapping, instead, put them in the cabinet side by side.
5. It is recommended to assess the goods as Figure I. When the light ray is reaching on the goods from top to down, the inspector should assess the goods in 45 degree of angle.
6. After use, press ON/OFF switch to power off. Switch off the power of the lamp cabinet if it will not be used for a long time.
7. Install new lamp as Figure II and read the instructions with care. Do not mix up the lamps' position. **Note:** After replacing, it is important to **RESET** the number of use and time to [ZERO] for a new lamp as below procedures: *press the new lamp switch, insert a small screw driver or a pin to the central hole of CLR switch and press, at the same time, the switch of the newly replaced lamp, the number of use and time will be reset to zero as a new start. Note: Do not press CLR key in case of not replacing lamp to avoid resetting data unwantedly.*

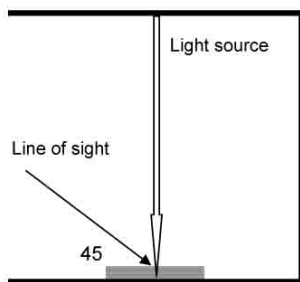


Figure I

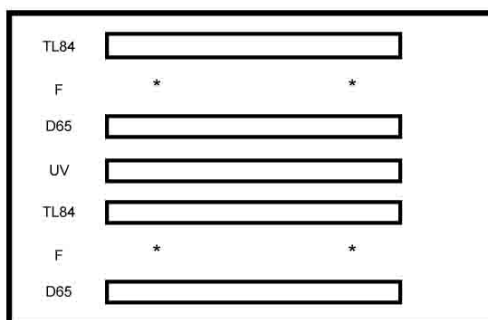


Figure II

IV. Electrical Parameters

Power source: AC 220V / 50 Hz

Rated output: < 300W

V. Lamp Cabinet Warranty

1. Warranty period of lamp cabinet is one year except for misuse or damage caused by users or the natural wear and tear of the lamps.
2. In case of dirt or damages found on the internal wall of lamp cabinet, clean it or replace it, if any. Please consult with an authorized supplier for all fittings.

Important Notes

I. How to extend the lamp’s usage life cycle?

The lifecycle of lamp is dependent on the accumulative usage time and times of use. For example, in the case where user uses the lamp for a long period of time meanwhile he/she switches on and off the power repeatedly in a day, the life cycle of lamp will be shortened. When we are to use the lamp cabinet several times within an hour of time, it is recommended to keep power on instead of switching on and off repeatedly. Generally speaking, each time of switching on the power is equivalent to the usage of the lamp for one hour of time. Please power off the lamp cabinet in case of not using the lamp over a long period of time. It is highly recommended not to switch between lights unnecessarily in order to extend the effective life cycle of lamp.

II. How to change the current lamps to other lamps?

T60+ Cabinet has 5 standard light sources whereas P60+ has 6 standard light sources. The user can replace the light sources as desired. For instance, if the user wants to change the current lamp TL84 to TL83/U30 over a long period of time, remove the current TL84 lamp and replace it by putting TL83/U30. The user can put a sticker marked “TL83/U30” over the TL84 marking.

III. How to replace new lamp or other special light sources?

Light tubes and bulbs used in this standard light source cabinet are certified special light sources for laboratory use, which are different from the ordinary household lamps or bulbs. Only purchase new fittings from certified dealer for replacement. We can supply 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.

IV. How to clean the wall of lamp cabinet?

If the internal wall of lamp cabinet is dirty with dust or handprint, use a clean white soft and moistened cloth to wipe the dirt off. Do not use any hard objects (like knife or cutter) or chemicals to clean to avoid damaging the absorbent coating of the inside wall of lamp cabinet.

VI. Authorized supplier

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TILO Light Box