

TRUE COLOUR

Accuracy of Eye's...



Colour Assessment Cabinet / Light Box

ACCURACY OF EYE'S ...



TC-60-5

OPERATIONAL MANUAL

CE DECLARATION

Manufacturer's Name : True Color Cabinets,
Authorized information's : www.truecolourcabinet.co.uk
Model Name : TC-60-5
Electricity : 1 Φ , 220 VAC /60HZ

Note: This is a class A product. In a Domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

EQUIPMENT INFORMATION

Use this equipment in a manner other than that specified by True Colour , incorporated may compromise design integrity and become unsafe.

WARNING: This instrument is not for use in explosive environments.

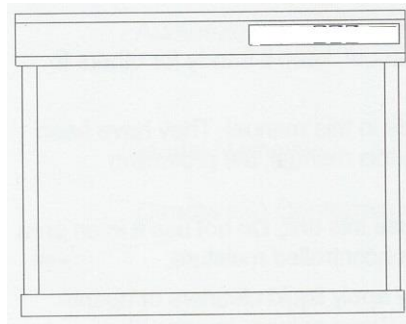
SAFETY INSTRUCTIONS

- PLEASE READ AND FOLLOW INSTRUCTIONS BEFORE USING.
- RETAIN THIS MANUAL FOR FUTURE REFERENCE
- OBEY WARNINGS
- PROTECT FROM WATER & MOISTURE
- CLEAN PROPERLY
- USE ONLY PROPER POWER SOURCE
- UNPLUG UNIT BEFORE CHANGING LAMPS
- DO NOT OVERLOAD CIRCUITS
- AVOID HEAT SOURCES
- DO NOT OPERATE DURING LIGHTNING STORMS
- SERVICE PROPERLY

WARNING: UV-A EMISSIONS: A low level UV radiation is emitted when the UV feature is activated. AVOID direct exposure of 15 minutes or more under UV radiation. Protective measures are required for prolonged exposure.

INTRODUCTION

The True Colour TC-60-5, is a lighting booth that can be used for colour evaluation under specified lighting conditions. The TC-60-5 feature:



- Balance light that confirms to or exceeds published international standards for the evaluation of colour.
- An elapsed time meter
- “ Instant –ON “ capability to eliminate warm-up delays
- A membrane keypad for rapid switching between illuminants with fingertrip control.

MAINTENANCE:

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

INTRODUCTION:

- 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.

Color Assessment Cabinet, suitable for all industries and applications where there is a need to maintain color consistency and quality-e.g. 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 consistence 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, F and A light sources are available in this Lamp Cabinet for metamerism effect.

LAMPS & PERFORMANCES:

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 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.
5. Correctly record use time of each lamp group. Especially D65 standar dlamp shall be replaced after being used for over 2,000 hrs, avoiding 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. 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.

OPERATION INSTRUCTIONS:

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.
2. Press "ON/OFF" key for one time and the Timing will display the total service time of this lamp cabinet.
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.
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.
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.
6. After working, press ON/OFF key to power-off. Power-off lamp cabinet in case of long-time not use.
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 for a moment (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.

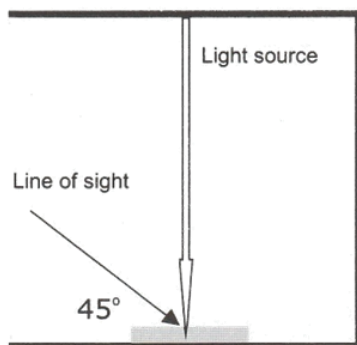


Figure I

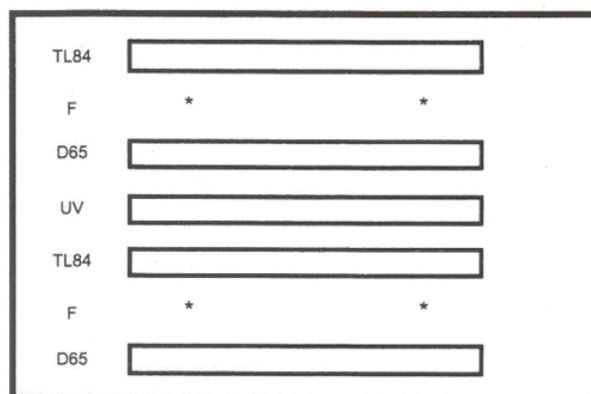
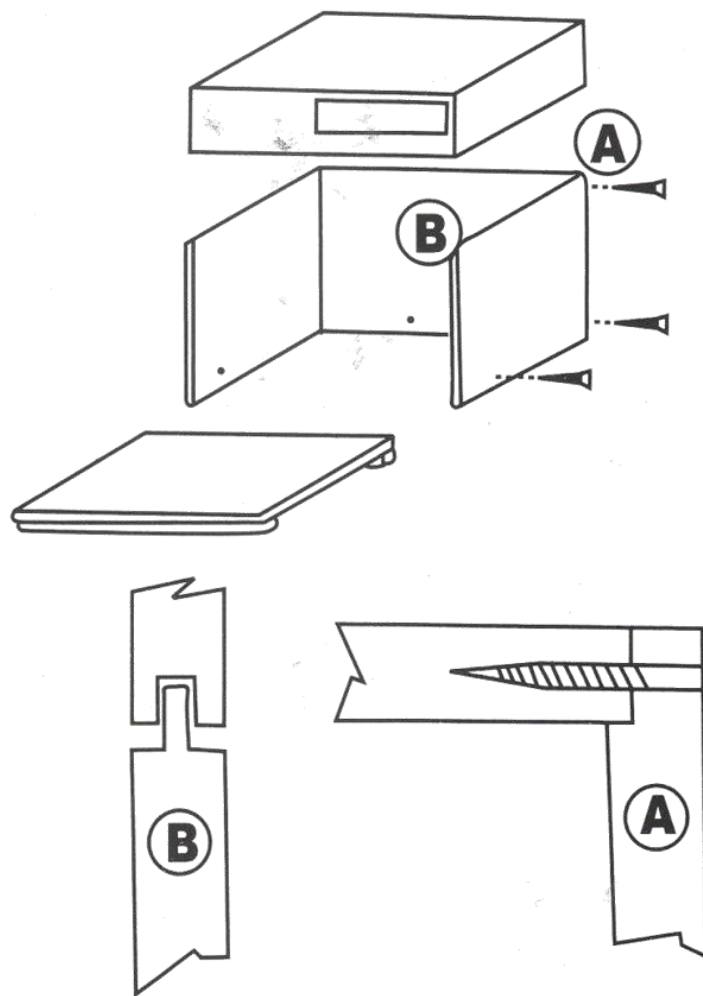


Figure II

ASSEMBLY :



Cabinet consists of 5 component parts:

- 1 Base
- 1 Back
- 2 Sides
- 1 Canopy

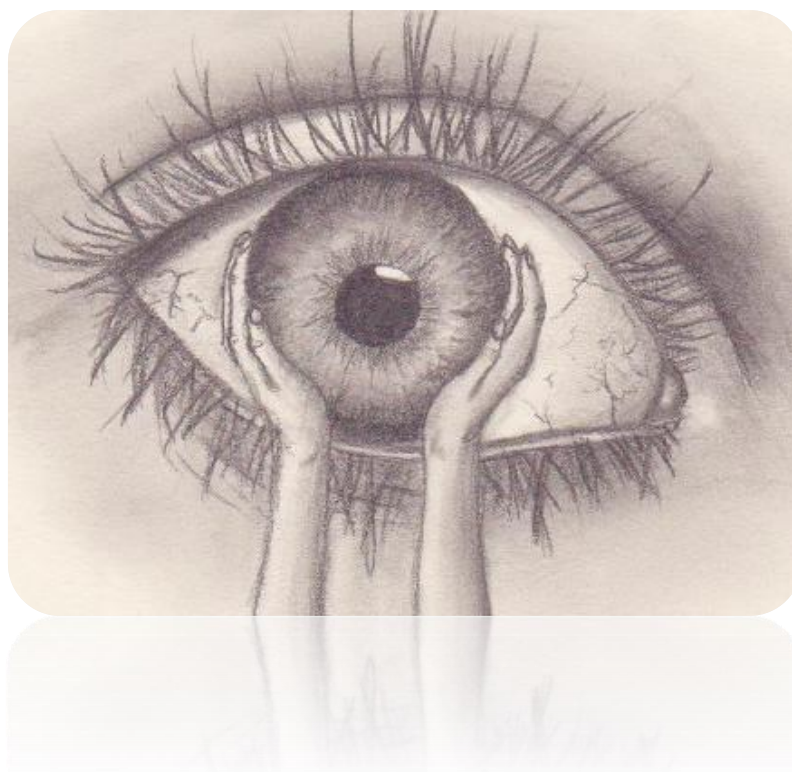
1. Position and screw pre-drilled sides to edges of back using the self tapping cup-screws provided. Ensure that the rear edge of the sides lines up with the back - see diagram A.
2. Slide base into position.
3. Locate canopy on the top edge of back and sides, tongue and groove - see diagram B.

IMPORTANT

As a safety precaution this cabinet should be properly earthed.

A C C U R A C Y O F E Y E ' S ...

TRUE COLOUR LIGHTING CABINETS



Collaborated

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