



# U.V. Fluorescent Non-Vacuum Exposure Units

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Manufactured by: Ranar

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CBX Series

# IMPORTANT UNIT INFORMATION

This unit's Serial No. is: \_\_\_\_\_

Date Sold: \_\_\_\_\_

Sold by: \_\_\_\_\_

## Electrical Specifications

Voltage: \_\_\_\_\_

Amps: \_\_\_\_\_

For more information you may consult the wiring diagram on the last page.

For additional help you can contact us at:

1-800-421-9910 or [sales@ranar.com](mailto:sales@ranar.com)

## Warranty

Warranty applies to only the original purchaser on a pro-rated basis.

3 years on mechanical parts

2 years for the heat panel and

1 year for electrical parts.

### **WARRANTY IS NON TRANSFERABLE.**

**This is parts only, warranty labor not included.** Parts must be returned to Ranar for inspection at customer's expense. Ranar covers shipping within the continental USA. UPS Ground service only, expedited service available at customer's expense. Parts subject to inventory on hand usually ships same day if notified by noon.

Ranar Screen Printing Equipment Inc

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Union MO 63084

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# Safety Information

## THESE PRECAUTIONS ARE FOR THE SAFETY OF PERSONNEL

- Please read all information before operation
- Keep children and pets away from the Equipment when in use.
- Never leave equipment unattended while in operation
- Do not store any objects on top of the exposing unit
- Unplug power cord before removing glass or entering control box.
- Do not operate if control panel has been removed.
- Do not operate if power cord is damaged.
- Do not attempt to defeat safety interlocks
- Electrical supply connections shall be to uniform safety electrical code.
- Chassis of dryer shall be wired to a properly grounded (earth) outlet.
- Electrical supply shall be connected as shown on equipment wiring diagram.
- Venting of oven to outside is necessary if material or inks are used to discharge offensive vapors. If venting has a horizontal run more than 16 feet, an exhaust fan may be needed at exit of building.
- Only qualified persons should attempt to service equipment.
- Unplug or switch off electrical supply before servicing equipment.
- Provide separate chassis ground with temporary wire if ground is unplugged with electrical supply.

## IMPORTANT

This equipment is intended for the curing of specialized emulsions and films, primarily used in the screen printing industry, with ultraviolet light.

### **\*\*WARNING HANDLE GLASS WITH CARE\*\***

- Wear gloves when handling the glass
- Lay glass only on a flat protected surface
- Glass, although strong, can shatter if the edges are subject to an impact

## EFFECTS OF UNDER AND OVER EXPOSURE

It is usually preferred to over expose rather than under expose. An under-exposed screen will wash out most of the detail which will result in a less durable stencil for printing. On the other hand, an over-exposed screen will block the fine detail from coming through, causing loss of resolution of the stencil. However, the stencil will generally be more durable because it has received more light. For optimum screen making performance, an exposure calculator is a valuable and inexpensive aid in determining exposure time.

**NOTE:** The vacuum frame is designed so that some air leakage is allowed. This is necessary for cooling off the vacuum pump. **DO NOT ATTEMPT TO SEAL ALL AIR LEAKS.**

# OPERATION

Congratulations on your purchase of the Ranar CBX-2024 Exposure Unit. It is easy to operate and requires minimal space at your home, shop or wherever you intend to use this unit. Before you start, we recommend that you take a moment to become familiar with your unit and follow the following instructions:

1. Turn on the bulbs and leave them on for an hour to allow them to break in.
2. Clean glass surface to prevent pinholes in emulsion.
3. Place film positive on glass and position accordingly
4. Place coated and dry screen over film positive and place provided weight over screen.
5. Turn timer switch to time recommended by emulsion manufacturer – typical time is approximately 2 minutes.
6. Once timer stops, carefully remove weight and then remove screen.
7. Wash out screen, dry it, tape the edges and prepare for printing.

**PLEASE NOTE:** When burning a screen with fine details, use higher (dyed) mesh screen and reduce exposure time slightly.

This unit will NOT exposure high density film, as that type of film requires very high intensity light.

Bulb light is typically 1000 to 2000 hours and the power requirement is 110 volts.

Most screen burning problems are traced either to the artwork not being dark or opaque enough. For best results consult your inkjet or laser printer manual.

## Recommendations:

For your convenience, here are websites for some screen printing supplies sources:

### EMULSION MANUFACTURERS:

AUTOTYPE	<a href="http://www.autotype.com">www.autotype.com</a>
CHROMALINE	<a href="http://www.chromaline.com">www.chromaline.com</a>
IMAGE-MATE	<a href="http://www.image-mate.com">www.image-mate.com</a>
MURAKAMI	<a href="http://www.murakami.com">www.murakami.com</a>
SAATI	<a href="http://www.saatichem.com">www.saatichem.com</a>
XENON	<a href="http://www.xenonproducts.com">www.xenonproducts.com</a>

# OPTIONAL DIGITAL TIMER

**To set the time:** Use the yellow button (<<) to change the digit you want increased (up button) or decreased (down button). The number you change will blink rapidly on the SV (set value) display. Press the (<<) button to move to another digit. To set that number, press **MODE**.

