INTRODUCTION

Thank you for your purchase of the EC-500 Light Exposure System. While the EC-500 has been designed for simplicity in use, we suggest you familiarize yourself with the brief instructions contained in this manual prior to operating your unit. We are sure you will find your EC-500 simple to operate safely and effectively.

FEATURES

1. Programmable Electronic Timer
2. Digital Countdown Mode
3. Power Down Mode
4. Exposure Completion Audible Signal
5. Turntable/Shelf Feature
6. Large Chamber Access

CONTROL FUNCTIONS

Minutes Select Switch: Allows selection of up to 9 minutes in one minute intervals. Advance to desired time by holding or tapping switch.

Seconds Select Switch: Allows selection of seconds in 1/10th minute (6 second) intervals. Advance to desired time by holding or tapping switch.

Minutes Display: Indicates minutes selected and counts down minutes.

Seconds Display: Indicates seconds selected and counts down seconds.

Start Switch: Starts curing cycle after door is closed. Always close chamber door before pressing start switch.

Stop/Reset Switch: Stops curing cycle and automatically resets to last selected cycle time.

Audible Signal: Activated at end of curing cycle.

LAMP SELECTION
The EC-500 is engineered to produce either ultraviolet (UVA) or VISIBLE (BLUE) light exposures. The exposure generated is determined by the wavelength of the lamps assembled in your EC-500. For applications calling for the photo activation of UVA light curable materials, your EC-500 should be assembled with UVA lamps (4), P/N 82469, peaked at 365nm. For applications calling for the photo activation of VISIBLE/BLUE light curable materials, VISIBLE/BLUE lamps (4), P/N 82470, peaked at 450nm, should be used. Please refer to the product data specification provided by the material manufacturer.

ASSEMBLY

Remove the EC-500 from its shipping carton, carefully inspecting the unit for any shipping damage. If damage is evident, contact Electro-Lite immediately and document the damage. Do not discard the foam nesting material packed in the shipping carton. These may be reused if it is necessary to return the EC-500 for any repair. Open the chamber door. Remove the four lamps and lamp packing material from chamber. Insert the lamps into their sockets by sliding the lamp into place with lamp contact into socket guide. Attach the AC line cord into the AC socket located on the rear panel.

OPERATING INSTRUCTIONS

CURING CYCLE

- Turn the on/off switch, located on the back panel, to “on”.
  Insert the device to be cured into the EC-500, placing it directly in the center of the turntable or onto the optional shelf if it is being used to support the device.
- Set curing time using minute and second select switches. Unit will automatically reset to this time until new selection is entered.
- Depress Start Switch: Decimal point on minute display will blink once per second during curing cycle.
END/RESET CURING

- At end of curing cycle, audible signal will sound and unit will automatically reset to previously selected curing time.
- Unit can also be stopped at any time during the curing cycle and reset by depressing Stop Switch. Unit will automatically reset to previously selected time.

POWER DOWN MODE

- After approximately two and one-half minutes of inactivity, the EC-500 will automatically switch into the energy-saving Power Down Mode. This will be indicated by flashing decimal points in both displays.
- Touching any switch on the unit will turn-off the Power Down Mode and return the unit to normal function. Previously selected curing cycle setting will be displayed.

SAFETY INSTRUCTIONS

DO NOT OPERATE THIS UNIT NEAR WATER! Use only the grounded AC line cord packed with your EC-500. Do not use an extension cord. Do not operate this device with a voltage converter. Be sure you are operating your system at the proper line voltage. See label on back for correct voltage specification.

UV SAFETY

NEVER OPERATE UNIT WITH CHAMBER DOOR OPEN.

The EC-500 should be operated ONLY with the chamber door in the closed position (flush to the front of the unit). Red colored viewing window is composed of UV blocking material and progress can be observed by looking through the window.
Do not open chamber door during a curing cycle unless wearing UV protective eyewear. One pair of UV protective eyewear is included with each unit.

**SPECIFICATIONS**

Input voltage: 100-120V AC, 50-60Hz, 1.5A  
200-240V AC, 50-60Hz, 1.0A

Lamp: 9W x 4 Lamps * UVA-365nm (P/N 82469)  
VISIBLE – 470nm (P/N 82470)

Dimensions: 9”W x 8”H x 9”D (External)  
7.5”W x 3”H x 8.75”D (Chamber)

Turntable: 4” diameter, 6 r.p.m.

Shelf: 5”W x 8.75”D

Panel Indicates: Time-Minutes * time – 1/10 (6 seconds) * Start exposure *Stop Exposure  
* ON/OFF (Back Panel) * Power Down Mode (Flashing Decimal)


Audible Signal: Activated at end of curing cycle.

**WARRANTY**

Electro-Lite warranties product against any defective parts or materials for a period of one year from the date of shipment. During this time Electro-Lite will repair or replace free of charge any defective parts if such defects occur in normal service and are not due to apparent misuse, abuse or accident. This warranty **DOES NOT** apply to external accessories, lamps or batteries.

**ELECTRO-LITE CORPORATION**

6 Trowbridge Drive, Bethel, Ct.  06801  
Tel: (203)743-4059 Fax: (203)743-6733  
www.electro-lite.com