EyeLux Portable Operations Manual for Providers
As of May 5, 2023

The EyeLux Portable is a syntonic optometric phototherapy instrument intended for in-office or home use. It is an AC-powered device containing a 20W halogen bulb with capability of containing two syntonic filters made of high-quality crown glass. The appropriate filters for use in the unit are supplied by EyeLux Integrations and strictly adhere to the transmission spectra criteria of the College of Syntonic Optometry. The EyeLux Portable has several unique functions for syntonics. The following are associated instructions for use.

A. How to run a treatment session:

1. Plug instrument into a standard household outlet using the appropriate power cord that accompanies the unit. **DO NOT** operate instrument near electrical hazards (water, etc).

2. Participant should be comfortably seated such that the eyes are 30-40cm (12-16 inches) from the front of the instrument. Participant should be relaxed and instructed to gaze at the light.

3. Turn off all room lights and minimize any sources of illumination during treatment sessions to provide optimal pupil size and prevent distractions.

4. Press button #1 (furthest to left). The light will begin its pattern of modulation immediately and end when the set time is reached. Three beeps will be heard. Option: press button #2 (second from left) if a second program has been set up for the participant.

B. How to prescribe amount of time for each filter (F1 and F2) or (F3 and F4).

1. Press and hold buttons 2 and 4 together for two seconds.

2. Enter passcode "1234321" (the buttons across the instrument are "1234" from left to right).

3. Filter 1 (F1) time can be adjusted using the up and down arrow buttons.

4. Scroll to Filter 2 (F2) by using button 2 (>).

5. Filter 2 (F2) time can be adjusted using the up and down arrow buttons.

---

b. Enter passcode

c. Press button 2 once

d. Use buttons 3 or 4 to move the filter carriage to a more optimal position for filter replacement process. It will only require 1-2 presses of button 3 or 4 to accomplish. Note: if you move the carriage too far (too many presses) it will interfere with closing the unit back up. Be sure to be mindful of this to avoid damage to the unit. If you do move it too far, use the other button (3 or 4) to move it back. It does not need to be moved completely back to its original position. The computer will know where to position the filter once you close the instrument back up and run a session.

J. How to replace the light bulb.

1. **UNPLUG** instrument from electrical power source.

2. Remove both the thumb screw and Phillips screw from the underneath surface of the instrument.

3. Slide the front face plate out to a point at which you can access the bulb.

4. Remove the two small Phillips screws from the black frame that holds the bulb.

5. Replace the bulb with another 20watt MR11 halogen.
Specs: 20 watt - 12 volt - MR11 - Bi-Pin (GU4) Base - Natural White - UV Protected - Dimmable

Questions or need further help?
Email us at eyeluxintegrations@gmail.com or call/text 614-270-1906

Note: steps 3-5 can be repeated for F3 and F4 if a second program is intended for the participant.

     6. When finished, use the < button to return to the home screen.

C. <u>How to set the number of sessions allowed for the participant:</u>
1. Press and hold buttons 2 and 4 together for two seconds.
2. Enter passcode
3. Press button 2 four times to move to the Session Count screen
4. Press the up or down arrow buttons to change number of sessions available for the patient to use. The maximum is 250.

D. <u>How to check the compliance log</u>
 1. Press and hold button 1 for four seconds.
a) shows log of date and time when the session was completed. Any unfinished sessions by the patient will not be logged.
b) when not needed anymore, you may clear the log here by pressing "CLR".

E. <u>How to set the filter label ID's</u> (this ensures the bulb brightness is appropriate based on the optical density variation of the filters).
1. Press and hold buttons 2,3,4 together for two seconds.
2. Enter passcode
3. Use buttons 3 and 4 to set the filter ID's
4. Press button 1 to return to home page
Note: "Gen" setting is available as generic brightness if desired.

F. Rarely, if ever needed: <u>How to temporarily lower the brightness (**NEVER RAISE brightness from factory settings)**</u>
1. Press and hold 2 and 3 together for two seconds.
2. Enter passcode
3. Press button 2 once to scroll to Filter 1 H (high) setting menu. Use button 4 to lower the brightness by increments of 5. Press button 2 twice to scroll to Filter 2 H (high) setting menu. Again, press button 4 to lower the brightness by increments of 5.
4. To reset brightness to factory settings, press and hold buttons 3 and 4 together for two seconds.

Note: brightness settings will reset to factory default settings when you change the filter ID's so that the unit returns to optimal syntonic transmission emittances.

G. <u>How to set date and clock</u>
1. Press buttons 3 and 4 together for two seconds.
2. Enter passcode
3. Follow menu indicators

H. <u>How to change password</u>
Note: When using the instrument for the first time, the menu asks for password. This will be provided to the purchaser only. This password may be changed if desired, following these steps.
1. Press and hold buttons 2 ,3 and 4 together for 2 seconds
2. Enter passcode
3. Press button 2 three times
4. Enter a new code (4-8 characters long).
5. It will ask you to enter it again to verify it. Don't be surprised by a slight delay after entering a new password. It is waiting for you to be sure you are finished entering it.

I. <u>How to change filters</u>
1. Remove gold "thumb" screw. This can be done with fingers; no tools needed.
2. Gently pull the front black face of the unit away from the body of the unit until it exposes the filter carriage.
3. First, **STABILIZE THE FILTER CARRIAGE WITH ONE HAND**. Using your fingers of the other hand, grasp the two tabs of the filter holder and pull the filter holder out of the filter carriage. Stabilizing the carriage while inserting or removing filters helps to prevent undo stress on the motor. Replace this filter holder with another filter holder containing the filter of your choice. If indicated, repeat this process for the other filter**. DO NOT** move the carriage manually as this may result in damage to the motor.
4. Rarely, if ever needed: Moving the carriage to improved position for filter holder removal:
    a. Press and hold buttons 2, 3, and 4 together for two seconds