



Supply and Service of Medical Devices

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trimlaser Operating Manual

For Firmware Version 2.8

FOR ANIMAL USE ONLY

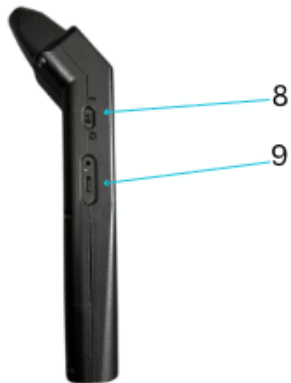
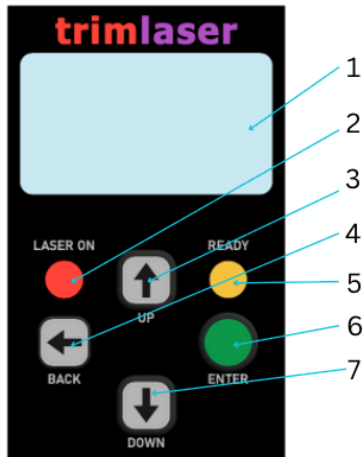
INTRODUCTION

The trimlaser is a unique handheld class 3b laser, designed for therapeutic healing and pain relief.

The trimlaser is designed for Animal therapy use only.

Controls

- 1. Screen**
- 2. Laser On LED**
- 3. Up Button**
- 4. Back Button**
- 5. Ready LED**
- 6. Enter / Forward Button**
- 7. Down Button**



- 8. On / Off Switch
- 9. USB – C charging socket

How to use the trimlaser

The following is the correct order to use the trimlaser:

1. The operating manual should be fully read and understood.
2. Switch on the trimlaser.
3. Enter the code using the up and down arrows to select the numbers and the enter button to confirm each number.
4. Set the frequency required for treatment.
5. Set a treatment time or energy level.

6. Ensure the laser protection glasses provided are used by the operator, if anyone else is helping or near the laser they should also wear laser protection.
7. Ensure you are aware of the danger of Laser light and take all precautions required included the for the animal being treated.
8. Start the treatment.
9. Do not leave the device unattended when turned on.

1. Switching on and off.

To switch the trimlaser on, slide the switch on the side of the device up to the “1” position. The units screen will light up and ask for a code.

If the unit does not turn on, check that it is charged.

Enter the code (1234) using the UP/DOWN buttons to select the numbers, ENTER to confirm each number and BACK to go back to the previous number. Once the correct code has been entered the ready light will illuminate.

To switch the trimlaser off, slide the switch on the side of device down to the “0” position. The ready light will turn off and the screen will go off.

The trimlaser can be set up to used manually or by using one of the preset protocols in the device.

To use the presets protocols go to point 6.

2. Setting the Treatment Time or Energy / Energy Density

The trimlaser is designed to operate from either treatment time, total energy or energy density, as these are all directly linked. If you change one, the others will automatically change.

To set up by treatment time

The device will be set to 0m1s when first turned on. This can be changed via saving a default User Preset. (see settings point 7).

To set a treatment time, use the UP/DOWN buttons to navigate to “Timer”. Once highlighted press ENTER and the numbers will flash, use the UP/DOWN arrow to set the required time and press BACK to confirm. The treatment time will also affect the energy output. Press the back button save the treatment time.

To set up by energy or energy density select “settings” on the home screen, by using the UP and DOWN buttons, press enter when on settings, then using the UP and DOWN buttons go to “Mode” and press ENTER, this will toggle between energy & energy density, once desired mode selected press BACK button to return to home screen.

The energy or energy density can now be set.

To change the energy or energy density, use the UP/DOWN arrows to navigate to energy or energy density, whichever you have set. Once highlighted press ENTER and the number will flash. Use the UP/DOWN buttons to manually set the energy or energy density required and press BACK to confirm. Please note, changing the energy or energy density output will also change the treatment time.

3. Setting the Frequency

The device will be set to 1Hz when first turned on. This can be changed via saving a default User Preset. (see settings point 7)

To change the frequency, use the UP/DOWN arrows to navigate to “Frequency”. Once highlighted, press ENTER and the numbers will flash. Use the UP/DOWN arrows to manually set the frequency required and press BACK to confirm. If you wish to jump to one of the more popular frequencies, (2Hz, 10Hz, 16Hz, 155Hz, 500Hz, 2000Hz, 10000Hz or Continuous) press ENTER to take you to these frequencies, use the UP/DOWN arrows to navigate to your chosen frequency, and press ENTER to confirm.

5. Starting Treatment

In order to start treatment, make sure the settings are all correct on screen. Once you are happy with the settings, use the UP/DOWN arrows to navigate to “START TREATMENT” and press ENTER. A red light will appear to indicate the laser is on and a timer will appear and start counting down (in seconds).

If, at any stage, you need to pause treatment, press any button. To resume treatment press ENTER. To end treatment press BACK or UP or DOWN buttons. Once treatment has ended, either manually or automatically (end of treatment) the red light (Laser On) will turn off.

6. Protocols

The Trimlaser comes with thirteen pre-installed protocols. These are for the most commonly treated conditions. To select a protocol, use the UP/DOWN arrows to navigate to “Protocols” Once highlighted, press ENTER. A screen will appear with the first protocol, showing you the name of the condition it treats and the treatment settings. Use the UP/DOWN arrows to navigate to the protocol you wish to use and press ENTER. You will be taken back to the start screen where the settings will be loaded and you can start treatment (Please see starting treatment).

You can also manually adjust the protocols to your own preference, Note: this is not stored in the device for future use of the protocol, but can be saved into one of the preset locations. The adjustments can be made the same way as setting up the device manually by adjusting the Frequency or Time or Energy / Energy Density.

7. User Presets

The Trimlaser allows you to set and save up to 20 of your own presets. On the main screen, set the frequency, treatment time and energy to what you desire. Once you have set these, navigate using the UP/DOWN arrows to “Save...” and press ENTER. This will take you to a screen where you can navigate using the UP/DOWN arrows to navigate through different preset slots. When you have selected the preset slot, you wish to save the preset to, press ENTER.

Users can save up to twenty presets. Please note that whichever preset is saved in “User Setting 0” will become the device default and will be the settings that will load every time the device is first turned on.

8. Battery

The trimlaser is battery operated. The display indicates the battery level as a percentage, when fully charged the battery level should read 100%. We recommend that the unit is not left for more than 1 month unused if the battery level is below 20%, as to not lose any settings and to ensure the unit performs as expected.

The battery is charged using a USB to USB-C lead. To charge the battery uncover the charging port on the side of the device and plug the USB-C end into the charging port. Plug the USB end into a USB power source. The Red LED next to the charging port will illuminate Red while the device is charging.

9. Settings

Fan

The Trimlaser comes with a built-in fan in order to keep the device from overheating. The temperature is displayed in the top right of the screen. Once the device reaches 40C degrees the Trimlaser will warn that the unit is getting warm, once the device reaches 50C degrees it will automatically turn off to prevent damage to the device. The fan can be turned on & off in the settings menu. We recommend that the fan is kept on unless it's required to be turned off to reduce noise when using near a sensitive animal.

This can both be turned on/off by using the UP/DOWN to take you to the fan setting. When on the right one, press ENTER to toggle through the on/off selection. You can then press the BACK button when on the correct setting selection.

Beeper:

The device has a beeper to advice when the treatment starts and stops, this can be turned on or off in the settings page.

This can both be turned on/off by using the UP/DOWN to take you to the beeper setting. When on the right one, press ENTER to toggle through the on/off selection. You can then press the BACK button when on the correct setting selection.

Energy or Energy density:

The device can display energy or energy density; this can be switched between the two in the settings menu. (see section 2)

10. Care and Maintenance

The trimlaser has no User serviceable parts.

The trimlaser should be serviced once a year by Trimbio, the device has a fan and filters in, which need to be cleaned and replaced to ensure the laser operates correctly and not overheat or fail, along with other service / maintenance requirements.

Cleaning: The trimlaser should be kept clean using a damp cloth, ensuring that the lens is clear from any dirt , as this will have a direct effect on the laser output and therefore the treatment outcome.

11. Technical Specification:

Wavelength : 850nm

Power: Either 200mW or 500mW version dependent.

Battery Capacity: 7000mAh

Weight: 270grams

Dimensions: L= 215mm, W = 50mm, H= 35mm.

Laser Beam Spot Size: 0.6cm²

Warranty: 1 Year.