

emLas-900

Digital LLLT Irradiation System



User's Guide



English

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Getting started

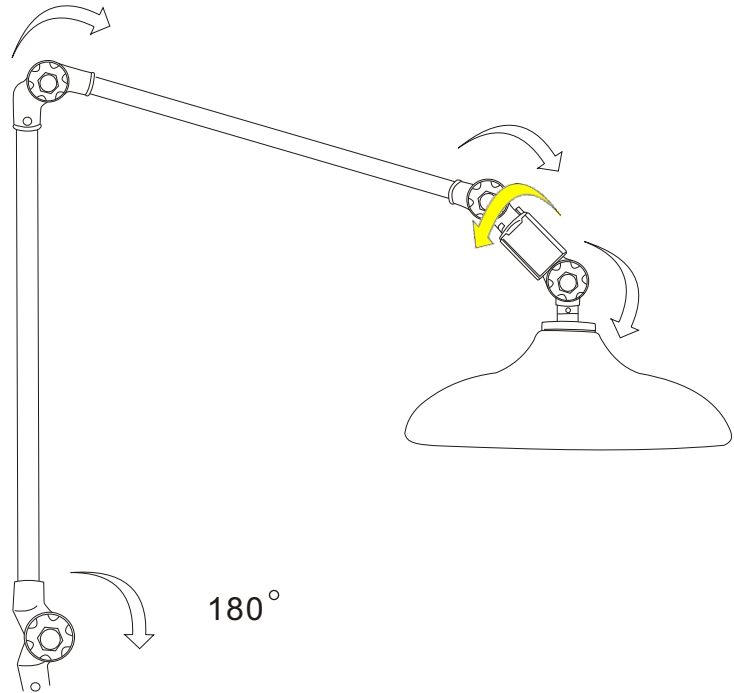
Read on to find out how to get started low level laser therapy (LLLT) with *emLas*.

1 Connect DC power supply












Connect power plug to the controller.

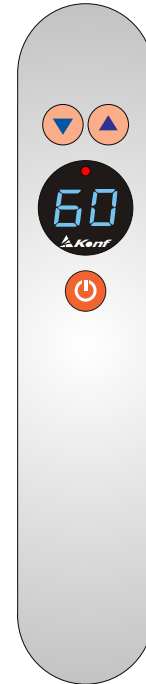
2 Connect AC power supply

Connect power plug to city power.



3 Operation steps and LED display

| Operation | | | LED Display |
|-----------|----------------|--|--|
| STEP | ACTION | PUSH | |
| 1 | Power ON |  | Last treatment time  |
| 2 | Time Setting |  Decrease Increase  |  |
| 3 | Start |  |  |
| Opt. | Emergency Stop |  > 5 Seconds |  |
| | | or  +  | |



Using *emLas*

emLas is used as the controller, combined with the laser accessories for the treatment of diseases and conditions, follow the recommended dosage and treatment time to get the best efficacy. You can also find new information about using *emLas* on the web www.konftec.com.

| Specifications | | | | | | |
|----------------------------|--|------------|------------|-----------|------------|--------------------|
| Operation Environment | 0 ~ 50 °C (32 ~ 122 °F); 10 ~ 95%RH (Non-condensing) | | | | | |
| Power Input Voltage | 90V AC ~ 264V AC | | | | | |
| Power Input Frequency | 47Hz ~ 63Hz | | | | | |
| Power Input Current | Max. 1A (115V AC), 0.5A (230V AC) | | | | | |
| Model No. Selection | | | | | | |
| Model No. | Laser Module | | | | | Total Output Power |
| | Wavelength | 780 nm | 808 nm | 660 nm | | |
| | Power | 100 ± 5 mW | 100 ± 5 mW | 50 ± 5 mW | 100 ± 5 mW | |
| <i>emLas-900A</i> | | | | 20 | | 1,000 mW |
| <i>emLas-900B</i> | | | | | 20 | 2,000 mW |
| <i>emLas-900C</i> | | 19 | | | 1 | 2,000 mW |
| <i>emLas-900D</i> | | | 19 | | 1 | 2,000 mW |

Tips and troubleshooting

Read on for advice about using and troubleshooting *emLas*.

My *emLas* won't turn on



- ☑ Make sure the connectors are in the right positions.
- ☑ If that doesn't work, check the connection from *emLas* to the power adapter and connect the adapter to a working electrical outlet. The LED indication should be ON.
- ☑ If that doesn't work, contact your local sales office.

Learning more, service, and support

There is a wealth of information about using emLas on the web.

For the latest information on emLas service and support information go to www.konftec.com.

Obtaining warranty service

If the product appears to be damaged or does not function properly, please follow the advice in this booklet, and the online resources. If the unit still does not function, go to www.konftec.com for instructions on how to obtain warranty service.

Safety and cleaning

Read on to learn about using *emLas* safely and cleaning *emLas*.

Important safety instructions

When setting up and using your *emLas*, remember the following:

- ☑ Read user's guide carefully before you plug your *emLas* Power Adapter into a power outlet.
- ☑ Keep user's guide handy for reference by you and others.
- ☑ Follow all instructions and warnings dealing with your *emLas*.

Warning: Electrical equipment may be hazardous if misused.

- ☑ Operation of this device, must always be supervised by an adult. Do not allow children access to the interior of any electrical product and do not permit them to handle any cables.

Warning: Laser beam

- ☑ Avoid direct eye exposure to the laser beam.
- ☑ Because some *emLas* lasers emit invisible infrared light, the usage of laser part in the area of the face and around the eyes must proceed with appropriate care and caution.
- ☑ Invisible infrared laser light penetrating the eye may cause serious harm after extended exposure. Therefore, the use of the optional laser safety goggles is advised.

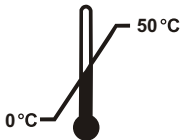


Using the power adapter

- ✓ Use only the power adapter that came with your *emLas*. Adapters for other electronic devices may look similar, but they may damage your *emLas*.
- ✓ The only way to shut off power completely to your power adapter is to disconnect it from the power source.
- ✓ When connecting or disconnecting your power adapter, always hold the power adapter by its sides. Keep fingers away from the metal part of the plug.
- ✓ Before connecting your *emLas* to the power adapter, make sure there are no foreign objects inside the adapter's port.
- ✓ The power adapter for your *emLas* is a high-voltage component and should not be opened for any reason, even when the *emLas* is off. If the power adapter needs service, see “Learning more, service, and support.”

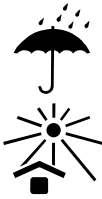
About operating and storage temperatures

- ✓ Operate your *emLas* in a place where the temperature is always between 0 and 50° C (32 to 122° F).
- ✓ Store your *emLas* in a place where the temperature is always between -20 and 85° C (-4 to 185° F).
- ✓ When you are using your *emLas*, it is normal for the bottom of the power adaptor case to get warm.



Avoid wet locations

Warning To reduce the chance of shock or injury, do not use your *emLas* in or near water or wet locations.



- ☑ Keep your *emLas* and power adapter away from sources of liquids, such as drinks, wash basins, bathtubs, shower stalls, and so on.
- ☑ Protect your *emLas* and the power adapter from direct sunlight and rain or other moisture.
- ☑ Take care not to spill any food or liquid on *emLas* or its power adapter. If you do, unplug *emLas* before cleaning up the spill.
- ☑ Depending on what you spilled and how much of it got into your equipment, you may have to send your equipment to Konftec for service. See “Learning more, service, and support.”

Do not make repairs yourself

Warning Do not attempt to open your *emLas* or power adapter, disassemble it. You run the risk of electric shock and voiding the limited warranty. No user-serviceable parts are inside. For service, see “Learning more, service, and support.”



Cleaning

Follow these general rules when cleaning the outside of your *emLas* and its components:

- ☑ Make sure your power adaptor of *emLas* is unplugged.
- ☑ Use a damp, soft, lint-free cloth. Avoid getting moisture in openings.
- ☑ Don't use aerosol sprays, solvents or abrasives.

About handling

- ☑ Your *emLas* may be damaged by improper storage or handling.
- ☑ Be careful not to drop you *emLas* when treating or transporting the device.



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