



QuasarMD

Red Light Therapy Mat

Foreword

This user manual contains essential information required for the safe and proper use of the QuasarMD Red Light Therapy Mat.

It is an integral part of the product and should be kept at the operating location throughout the product's lifespan.

Operators must thoroughly read this manual before using the product and ensure it is passed on to subsequent owners or users.

This product is not intended to diagnose, treat, cure, or prevent any disease or medical condition.

This product is safe and reliable under normal use; however, misuse or use for unintended purposes may pose dangers.

Please adhere to the following regulations to prevent accidents:

- Operate the product according to the instructions in this manual.
- Any attempt to self-service, unless directed by QuasarMD Customer Service, will void your warranty.

For any operational queries not covered in this manual, please contact QuasarMD Customer Support.

Email: support@quasarmd.com

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1. General Instructions

This product is designed for home wellness use. Use only as described in this manual.

This product is in compliance with the requirements of the international standards IEC 60601-1 and IEC 60601-1-2.

- Electric shock protection type: Externally powered / Class II equipment.
- Degree of protection: BF-type applied part.
- Safety level concerning flammable anesthetic gases: Not suitable for use in the presence of flammable anesthetic mixtures with air, oxygen, or nitrous oxide (non-AP/APG).
- Mode of operation: Continuous operation.

2. Intended Use

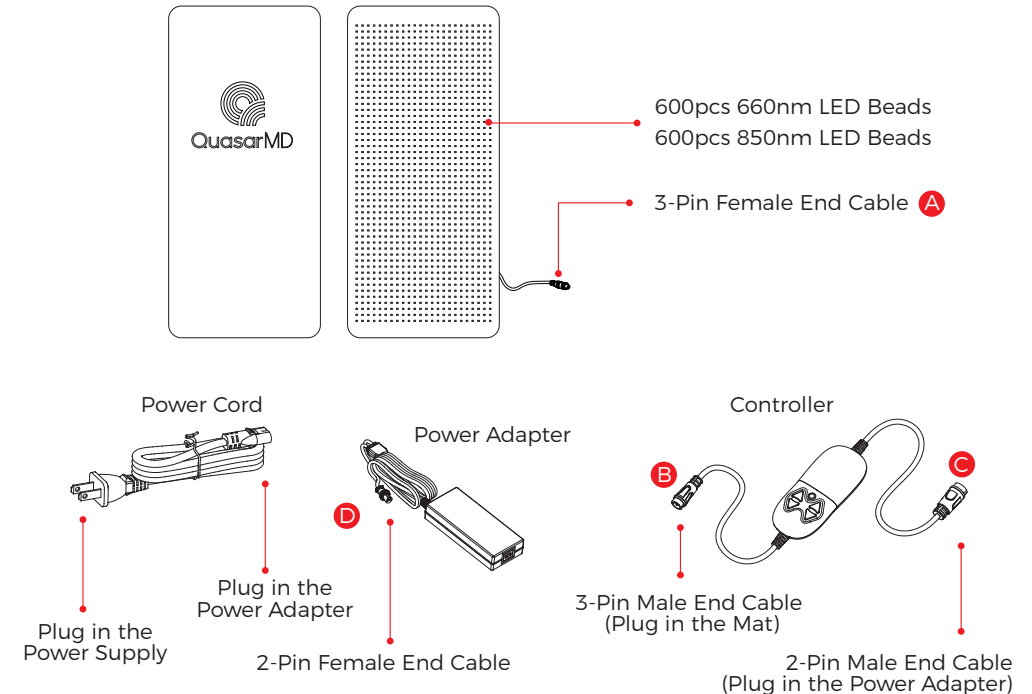
The QuasarMD Red Light Therapy Mat is a red and near-infrared light wellness product designed to support relaxation and general well-being.

3. How to Use

3.1 Unpacking the Mat

1. Inspect all supplied contents for completeness or damage.
2. Read all safety warnings before installation and use.

Product Diagram



4. Installation Guide

4.1 Installing the Mat

1. Unfold the mat and place it on a flat, sturdy, heat-resistant surface such as a bed or sofa, ensuring the opening faces upward.
2. Connect the controller cables (B) : Insert the male end of each cable into the 3-pin female connector (A) socket located at the corners of the red-light mat (both top and bottom).
Secure by rotating each locking ring clockwise.
3. Connect the power cables (C) : Insert the male end of each cable into the 2-pin female connector on each power adapter (D) . Secure by rotating each locking ring clockwise.
4. Plug each power cord into its respective power supply.
5. Connect each power cord to a standard power socket.

4.2 Preparing for Use

1. Perform a skin sensitivity test before using the mat to ensure no adverse reactions to light therapy (refer to Section 5.1: Skin Sensitivity Test).
2. Keep essentials nearby, such as a water bottle and entertainment items. Use a pillow for added comfort.
3. Remove shoes, clothing, and all accessories before use.

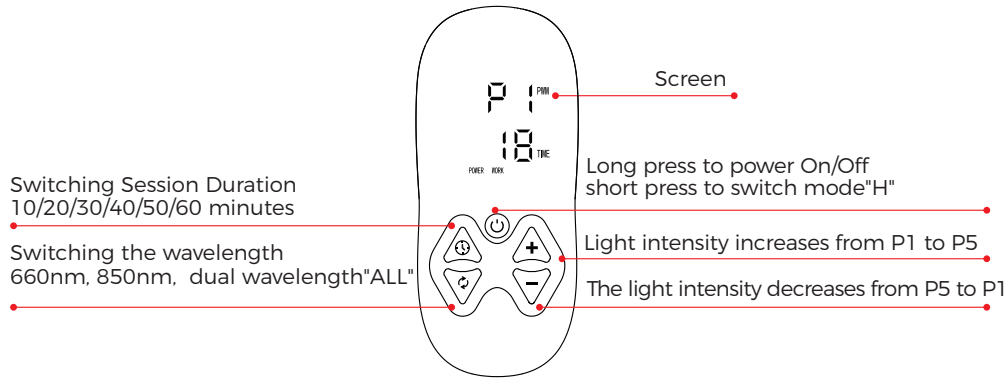
4.3 Using the Mat (Wear Protective Goggles First)

1. Powering On: After connecting to the power supply, the controller will automatically turn on, displaying the "OFF" screen.
2. Default Mode: Press the power button, and the interface will display P1 intensity mode with 660nm red light and a 10-minute timer (lowest intensity setting).
After 5 seconds, the device will automatically start.
It is recommended to use this default mode for the first session.
3. Switching Light Modes: Press the mode button to toggle between 660nm red light mode and 850nm near-infrared light mode.
The selected mode will flash twice before activation.
4. Adjusting Intensity (P1 -P5 Levels) :
 - 660nm Red Light Intensity: 25/50/80/100/120±25% mW/cm²
 - 850nm Near-Infrared Light Intensity: 25/41/65/85/95±25% mW/cm²The "PWM" indicator will flash twice before session begins.
5. Setting the Timer: Press the timer button to select session durations of 10/20/30/40/50/60 minutes.
The "TIME" indicator will flash twice, and session will commence.

6. The above describes the adjustment methods for P1-P5 modes and time modes under the factory-default 660nm red light and 850nm infrared light session.

Additionally, this product features an H brightness gradient mode.

7. To switch to H brightness gradient mode: Under step 2, press the power button. Refer to steps 4 and 5 for switching wavelength, intensity, and time.



4.4 Important Notes

1. Each red-light mat is controlled by its own controller. If needed, you can set different parameters for each mat.
2. Residual voltage may cause the adapter and controller lights to remain on briefly after unplugging.
3. Long press the power button to stop session.

5. Preventive Measures

5.1 Skin Sensitivity Test (Recommended Before First Use)

Before your first session, conduct a skin sensitivity test to ensure you do not have an adverse reaction.

1. Wear the provided protective goggles.
2. Power on the device as described in Section 4.3, Step 2 to activate the shortest session mode. Expose a sensitive area of skin (e.g., the back of the hand or inner forearm) close to a few LEDs for 5 minutes. Then, remove your skin from the light and turn off the device. If you feel any discomfort or excessive warmth during the test, stop immediately.
3. Wait at least 6 hours after the test. If the exposed skin becomes red, irritated, or itchy, you may be sensitive to this therapy and should discontinue use.

5.2 Contraindications (Who Should Not Use This Product)

Read all safety warnings and precautions carefully before use.

1. Photosensitivity Disorders: Individuals with photosensitive epilepsy or other light-sensitive conditions should avoid use, as the light may trigger a reaction.
2. History of Seizures: If you or a family member has a history of seizures or loss of consciousness triggered by flashing lights, consult your physician before use. Potential triggers include eye or muscle twitching, disorientation, involuntary movements, or loss of consciousness.
3. Topical Products: Do not use the device over areas where topical medications, ointments, balms, or pain relievers containing heat-producing ingredients (e.g., capsaicin) have been applied, as this may cause burns.

4. **Implanted Medical Devices:** Do not use if you have a pacemaker or other implanted electronic medical device that may be sensitive to electromagnetic interference.
5. **Skin Conditions:** Do not use on open wounds, bleeding areas, infected, bruised, swollen, inflamed, or sunburned skin.
6. **Photosensitizing Medications:** Avoid use if you have recently taken (orally or topically) photosensitizing drugs, including steroids, topical steroid creams, or received steroid injections.
7. **Recent Procedures:** Consult your doctor before use if you have recently undergone eye surgery, received dermal fillers, or have tattoos.
8. **Pregnancy & Specific Medical Conditions:** Do not use if you are pregnant, postpartum, or have been diagnosed with tumors or cancer.
9. **Eye Safety:** Never look directly at the operating LEDs. Direct exposure to red or infrared light may cause eye damage. Always wear protective goggles during operation.
10. **Surface Requirements:** Use only on a flat, sturdy, heat-resistant surface (e.g., floor, firm mattress, sofa).
11. **Preparation:** Ensure skin is clean and dry before session. Remove shoes, clothing, and all metal items, as metal can heat up and cause burns.
12. **Beginner Guidelines:** First-time users should start with the minimum session mode. Do not exceed 60 minutes per session. Allow at least 6 hours between sessions.

13. **Gradual Progression:** For optimal and safe results, increase the intensity and duration gradually over time to allow your body to adapt.
14. **Monitor Your Response:** Regularly check the treated area. Stop use immediately and consult a doctor if you experience pain, significant discomfort, or any unusual sensation.
15. **Cool Down:** Allow the device to cool completely before folding, storing, or cleaning.
16. **Storage:** Keep the product away from water, children, and pets.

5.3 Discontinue use if discomfort occurs.

Adverse reactions are rare. Individuals with suspected intolerance to light therapy or mild heat sensitivity should exercise with caution; a tolerance test is recommended first.

5.4 Safety Warnings

Important safety considerations for the product:

1. Do not stare directly at the light-emitting head while it is in operation.
2. Do not use this product near any heat sources.
3. Do not use this product while bathing.
4. Do not rinse this product directly with water.

5. Store the product properly when not in use.

Before each use, check that the mat, controllers, power cable, and power adapter are not damaged. If the device is damaged, malfunctions, or has come into contact with water, do not use it.

6. This product will automatically power off after the set working time.

Do not use continuously for more than 60 minutes. Allow at least 2 hours between sessions to ensure the device operates within its optimal temperature range and support long-term reliability.

7. Use only the provided power adapter and/or power cable under the specified voltage.

8. Keep away from devices that emit electromagnetic radiation while using this product to avoid interference.

9. Do not use or store this product in high temperatures or direct sunlight, as overheating may cause fire, electric shock, or harm.

10. Do not drag the power cord; avoid damaging, bending, stretching, or twisting it.

11. Keep sharp objects such as blades or needles away from this product.

12. Do not plug or unplug the power cord with wet hands.

13. Do not leave the mat plugged in or running unattended.

14. Do not use the mat while driving, smoking, or intoxicated.

15. During session, lie on the mat as instructed but do not sit or stand on it for extended periods. Do not apply excessive downward force to the power cord or mat.

16. Do not attempt to disassemble this product.

17. Use only the designated charger and approved accessories, including charging cables and power adapters.

18. Using unauthorized power chargers and accessories may damage the mat.

19. Under normal usage conditions, the maximum operating temperature of this product must not exceed 50°C.

If abnormal temperature is detected or exceeds this limit, stop use immediately and disconnect the power supply.

20. Before use, if any of the LED beads do not light up, stop using it immediately.

21. If you feel unwell during use, stop using it immediately.

5.5 Eye Protection

1. Please wear the provided goggles during the session!

2. Do not observe the LED from the edge of the mat during the session.

3. Do not look directly into the light source during operation. Prolonged direct exposure may cause discomfort or an involuntary eye-closing response.

4. Avoid staring directly at the light-emitting head for extended periods, as this may cause your eyes to reflexively shut.

It may feel like looking at sunlight, which should be avoided.

6. Troubleshooting

















| Issue | Possible Cause | Solution |
|--|---|--|
| Device is not working | Device is not plugged in | Connect all cables to the mat. Connect the power supply to each cable. Plug the power cord into each power adapter and then into a power outlet. |
| | Device is not turned on | The controller automatically turns on when connected to power. Press the ON/OFF button on controller to start the session. |
| Display is on, but the device is not working | Device is in setup mode | Adjust the settings, if necessary, then press the ON/OFF button on controller to start the session. |
| Device suddenly stopped working | The device automatically turns off after the session time | Press the ON/OFF button on controller to start a new session. |
| | Mat, controller, power supply, or cables is disconnected | Check all connections. Ensure all plugs are securely inserted, and all locking rings are fully tightened. |
| Intensity feels too strong or too weak | Selected intensity level is not optimal | Press the SET button to choose a different brightness level. We recommend starting at the lowest level. |
| Some LEDs appear to be off while the device is running | Near-infrared light (NIR) is invisible to the human eye and those LEDs appear to be off while device is running | The device is functioning while the timer is counting down. When the mode is set to NIR or RED & NIR, LEDs of NIR are invisible. |

7. Specifications

| Model | T600 | Product Name | QuasarMD Red Light Therapy Mat |
|---------------------|---|-----------------|---|
| Dimensions | 1810*610*15mm | Weight | 2.6KG |
| Power Input | AC 100-240V-50/60Hz 2.5A | Power Output | DC 24V 6.25A 150.0W |
| Ambient Temperature | Operation: +10°C to +30°C | Therapy Modes | Single wavelength mode: Only 660nm or only 850nm |
| | Storage and transportation temperature: +0°C to +60°C | | Dual wavelength mode: 660nm+850nm working simultaneously |
| Operating & Storage | Relative Humidity: 30% to 75% without condensation | | Breathing mode: This setting creates a gentle pulsation of light, where the intensity rhythmically rises and falls |
| | Atmospheric Pressure: 70kPa to 106kPa | | The factory default mode is the weakest mode with wavelength 660nm on for 10 minutes. The device will default to your last used settings on subsequent startups. Press the power button and switch button at the same time to restore the factory settings. |
| Warranty | 1 Year | Lifespan | 3 Years |
| IP Code | IP22 | Recommended Use | 3 Times / Week |

8. What's Included

| No. | Item | Quantity | NO. | Item | Quantity |
|-----|--------------------------------|----------|-----|---------------------------|----------|
| 1 | QuasarMD Red Light Therapy Mat | 1 | 6 | User Manual | 1 |
| 2 | Power Cord | 1 | 7 | Certificate of Conformity | 1 |
| 3 | Power Adapter | 1 | 8 | Storage Bag for Mat | 1 |
| 4 | Controller | 1 | 9 | Accessories Storage Bag | 1 |
| 5 | Goggles | 1 | 10 | Outer Carton | 1 |

| Graphic symbol | Interpretation | Graphic symbol | Interpretation |
|---|---------------------------------|---|-----------------------------|
|  | Class II equipment |  | BF type application part |
|  | Caution |  | Single patient multiple use |
|  | Sensitive to moisture |  | Keep away from sunlight |
|  | Refer to the instruction manual |  | Manufacturer |
|  | Date of manufacture |  | Country of manufacture |
|  | Batch code |  | Catalogue number |
|  | Unique Device Identifier |  | Serial number |
|  | Medical device |  | Recycle electronic devices. |

9. Maintenance and Care

This product is maintenance-free.

9.1 Cleaning Instructions

1. Before cleaning or storage, ensure the device is powered off, unplugged, and has cooled down.
2. After each use, gently wipe the surface with a soft, slightly damp cloth. Do not allow water or other liquids to seep into the product.
3. Do not use abrasive, corrosive, solvent-based, or harsh chemical cleaners.

9.2 Routine Inspection

Every two weeks, visually inspect the therapy mat, controllers, power cable, and adapter for any signs of damage or wear.

9.3 Maintenance

Including surface cleaning, operational check, and accessory inspection.

If the product will not be used for an extended period, store it in a dry, dust-free place. Periodically power it on for a short time to prevent moisture buildup in internal components.

10. Warranty and Support

For questions, technical assistance, or warranty inquiries, please contact:

QuasarMD Customer Support

Email: support@quasarmd.com

Please include :

- Product Number
- Serial Number
- Description of the issue

Brand Owner: QuasarMD

Manufacturer: Ningbo Jinhui Photoelectricity Technology Co., Ltd

Address: 2nd floor of Manufacture Building & Office Building,

No. 69 Fengyi Road, Southwest District, Yuyao Economic Development Zone,

Ningbo

City, Zhejiang Province, P.R. China

Postal Code: 315400

Product Manufacturing Date: Refer to product label.

Adaptor information:

| RATED OUTPUT: 24VDC | SPEC. LIMIT | | REMARK |
|---------------------------|---|--|---|
| | Min. value | Max. value | |
| Output regulation | 22.8VDC | 25.2VDC | ±5% |
| Output load | 0.0A | 6.25A | |
| No Load Power consumption | — | <input type="checkbox"/> 0.1W <input checked="" type="checkbox"/> 0.21W | Input voltage:115 & 230VAC |
| Ripple and Noise | — | 200mVp-p | 20MHz Bandwidth 10uF Ele. Cap. & 0.1uF Cer. Cap |
| Output Overshoot | — | 10% | |
| Line regulation | — | ±1% | |
| Load regulation | — | ±5% | |
| Turn-on delay time | — | 3000ms | |
| Hold up time | 10mS | — | Input voltage:115Vac |
| | 20mS | — | Input voltage:230Vac |
| Test condition | <input type="checkbox"/> USBoutput | | Testing wire: 1.0M 20AWG |
| | <input checked="" type="checkbox"/> Belt wire product | | |

