LED dental cold light whitening instrument
Instruction manual

Warranty certificate

Please keep this certificate and purchase invoice in good condition for maintenance.

The customer's name	Product model
Contact phone number	Date of purchase
The zip code	Invoice no
Address	Purchase prices

(Post invoice in)

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Model：

Please read this manual carefully before using

Technology creates a confident smile

LED dental cold light whitening instrument

· Preface ·

1. Thank you very much for your kind love and choose our products; Believe in your choice,Will bring very good harvest and help to your career and work.

2. The company's production of LED dental light whitening machine is the most advanced in the country.One of the CARDS. It is controlled by the internal microcomputer, and the output wavelength is 460–490nm of blue light.Can effectively illuminate the various teeth parts, and accurately and effectively catalyze the reaction of the whitening agent,Achieve deep whitening effect, make each tooth even whiten. This is the dental area,A major breakthrough in whitening technology.

3. Apply a variety of whitening agents on the market; If we use the special whitening of our company.The whitening effect will be better.

4. The operation method of whitening treatment, please refer to the technical guide for the treatment of cold light whitening.The whitening effect after whitening treatment is affected by many factors, the main factor is whitening.The quality of the instrument and the whitening agent, the level and experience of the doctor's treatment operation, and the patient's.Individual differences, please note!

· To adapt to the scope of ·

The company's cold light whitening machine is suitable for the use of whitening teeth, such as hospital stomatology, oral clinic, beauty academy, school teaching and so on.

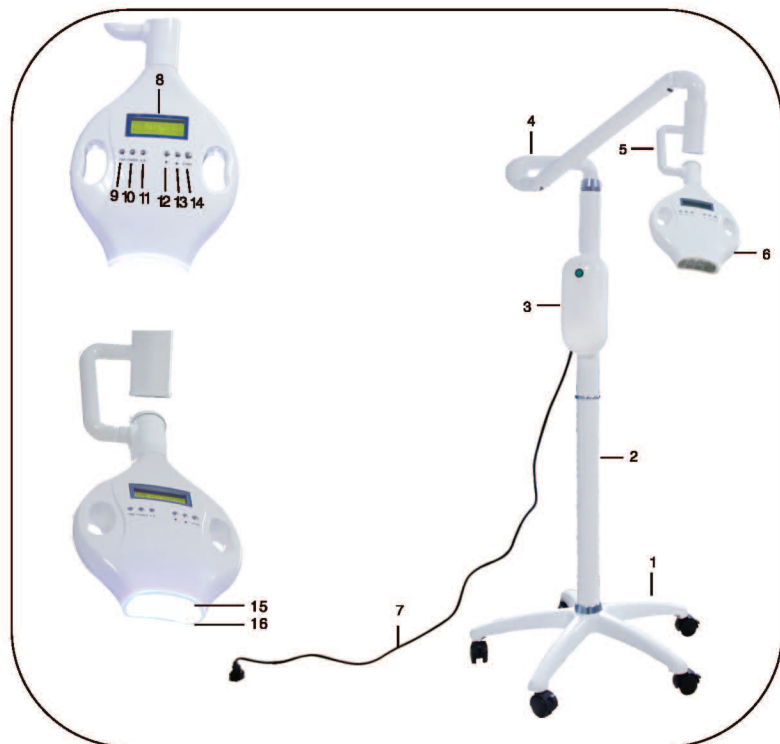**Suitable for the following staining teeth:**

1. External pigmented teeth (cigarette, coffee, tea, etc.).
2. Endogenous pigment teeth, mild tetracycline teeth, fluorosis teeth.
3. Hereditary yellow teeth.
4. Most unknown causes of tooth yellowish black.

· Technical parameters ·

Size	Height: 1300 mm, arm length: 1300 mm (longest), feet wide: 590 mm
The weight of the	18kg
The input voltage	AC110V~240V, 50/60HZ
The output voltage	18V
Power consumption	40VA
Blue light wavelength	460–490nm
Blue light density	200–300mw/cm²
Whitening time	Each course of irradiation for two to three times, each time 10–15 minutes

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· Product structure and component description ·

· Component function description ·

1. Stand post   3. Power box   4. Rotating arm
5. Pull hand   6. Host   7. Power line 8. Display screen
9. Time key   10. Power key   11. A/B group key 12
13. Upper key   14. Start/stop key 15. Group A pipe 16. Group B

· Operating instructions ·

1. Before using the whitening machine, you need to put together the whitening apparatus.   Please open the whitening machine
Packing box, remove the parts from the box, remove the protective film. Then follow this instruction The tenth part [installation schematic] assembles the device and checks if the wires are connected Pick up right.

2. Plug the power plug of the whitening meter into the applicable power socket and turn on the power box Power switch (ON). At this point, the screen of the main engine will light up, and display the previous shutdown   Parameters. As shown in figure 1 below:
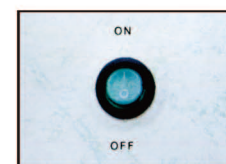

figure1

3.Press the "TIME (TIME)" button, display the TIME will be flashing, at this TIME can pass (▲) on the down (▼) button to adjust TIME, each TIME you press the increase or decrease 1 minute, the biggest adjustment TIME for 30 minutes, can according to need to set the whitening TIME, finished setting and then press "TIME (TIME)" to determine the setting TIME. As shown in figure 2 below:
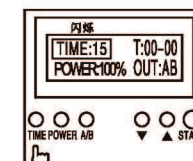

figure2

4.Press "POWER." Key, the output of the POWER value is flashing, this time can be adjusted by the (▲) down (▼) button to set the value of the need to each time you press the increase or decrease 10%, the POWER output range from 40% to 100% full POWER output is optional, according to the need to customize the set and then press the "POWER (POWER)" key to confirm the selected POWER. As shown in figure 3 below:

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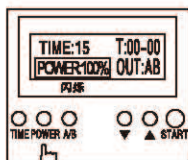
LED dental cold light whitening instrument

figure3

5.Press the "A/B" set of keys, pipe group choice is flashing, this time can pass (▲) on the down (▼) button to determine the desired output requirements, there are three output state: A: single output of group A, B: separate group B output; AB: A and B output simultaneously. After selecting the desired output state, press "A/B" to confirm. As shown in figure 4 below:
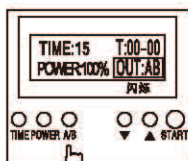

figure4

6, according to the "START/stop (START)", the output of the pipe will light up, the whitening instrument is in accordance with the requirements of the set to work, work screen will display the remaining time, the time has come if beauty Bai Yi will automatically stop output; If you want to stop during the whitening, press "START/stop (START)" button. (note: the internal cooling fan will work for 1 minute to protect the safety of LED and system when the output is stopped. As shown in figure 5 below:
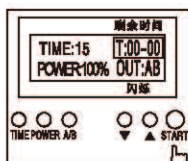

figure5

7, whitening instrument within the host control circuit is equipped with temperature protection device, when the temperature of the blue LED tube is more than 60 ° C, whitening machine will automatically stop working, in order to protect the security of the system.

· Warning and precautions · ⚠

1. It is forbidden to direct the blue light from the whitening machine to the eyes, or the eyes will be severely damaged. Both patients and doctors need to wear protective glasses to prevent blue light from damaging the eyes when they work.

2, adjust the host position, need a walking living host, another walking upright, then slowly pulling bracket to adjust the host in the proper position, turn to in order to prevent the whitening instrument, and also avoid the feet move.

3. Sterilize the whitening apparatus before treatment.

4. After each use, turn off the power in time. Do not contact the whitening instrument with the object of hard object collision or liquid.

5. In the process of use of the whitening device, if there is a problem, without the authorization of the professional personnel, it shall not be repaired without authorization. The whitening instrument repaired without authorization is not within the warranty scope

· Storage and transportation ·

1. In order to ensure the safety of the product, in the process of transportation and moving, it must be lifted gently, and the outer box shall not be squeezed by heavy objects, and the height shall not exceed 6 floors, and the liquid shall not be entered into the box.

2, whitening instrument should be stored in - 10 ° ~ 40 ° C C non-corrosive, well ventilated, relative humidity is 30% ~ 80% stored in a clean indoor environment.
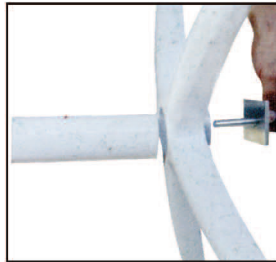
· Simple troubleshooting guide ·

The failure		The solution
No display		Turn on the power switch
There is no output		Select the parameters
Low output brightness		And I'm going to choose A, B
Low output brightness		The power to choose 100%
Other fault		Consulting our after–sales service department

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· Installation diagram ·

1. Pass the screw through the round iron plate, screw the screw into the bottom of the column, and lock it with the wrench

Install 5 casters on the rack

3. The bottom of the column is inserted into the center hole of the pin rack

4. Connect the two columns and tighten the screws

5. Connect the upright and rotating arms with the plug and socket

6. Insert the rotary arm joint into the inner hole above the column

7. Turn the joint clockwise on the rotating arm

8. To plug the rotating arm and the host, Socket butt joint.

9. Insert the connector of the main engine into the inner hole of the rotating arm and align the screw hole with the screwdriver of the random distribution.

· Circuit block diagram ·

- fan
- Fan drive circuit
- Display circuit
- Temperature measurement circuit
- The LED tube
- Driver circuit
- CPU
- Keyboard input circuit
- buzzer
- The buzzer drives the circuit
- CPU power
- The power supply circuit

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