

Saab M218 LED Teeth Whitening Lamp Machine

User Manual

Please read the introduction carefully before using

Contents

【Accommodation】	- 1 -
【Specification】	- 1 -
【Description of product structure and components】	- 1 -
【The machine handling instruction】	- 2 -
【Whitening process】	- 4 -
【Maintenance and upkeep of product】	- 4 -
【Warnings and precautions】	- 5 -
【Storage and transport】	- 7 -
【Simple troubleshooting guide】	- 7 -
【Packing list】	- 7 -
【After-sale services】	- 7 -
【Installation drawing】	- 7 -
【Symbolic description】	- 8 -
【Schematic Circuit Diagram】	- 9 -

【Accommodation】

The bleaching system is used for bleaching teeth by whitening kits

【Specification】

Model	KY-M218
Item	
Dimension of frame	Height: 1500mm, Arm length: 950mm, Wide: 550*500mm
Weight of machine	18kg
Input voltage	a.c.220V,50/60Hz
Output voltage	18V
Power	60VA
Wave length of blue light	400nm~460nm
Radiation value	400nm~650 nm for wave of radiation value:the maximum radiation value of whitening system is not less than 1000W/m ² .
	The radiation value is more than wavelength range for 650nm is not more than 2000 W/m (200 mW/cm ²)
	The useful ultraviolet radiation of 200nm~400nm spectral range when in maximum illumination is not more than 0.008W/m ²

【Description of product structure and components】

Structural composition: The main components are head , Main Frame, arm, horse and power line.

1. Structure diagram for KY-M218



Components instruction for KY-M218

1.Trickle	2. Base	3. Lower column	4.Upper column
5.Outlet	6.Power switch	7.Handle	8.Screen
9.Rotational arm	10.Sensor switch	11.Working time show	12.Handle
13.LED switch	14.LED light		

【The machine handling instruction】

1. The bleaching system should be assembled before using. Please open the package , take out the parts from the package , throw away the protecting glue film, then follow the t w e l f t h part 【The sketch map of installation】 in this instruction , assembled the equipment , and check whether all the connecting wires are connected all right.
2. Put the attaching plug of the bleaching system into the power socket , and then open the power switch of the power box(ON) , at the same time the screen of the machine will turn on , and it will show every parameter before closing the machine last time . AS picture 1:



Picture 1

3. Time setting: Press the arrowed button , the showing time will flashing,then you can adjust time. It will increase or decrease 1 minute one time. the maximum range for the adjusting time is 30 minutes,you can setting time as requested.As picture 2:



Picture 2

4. Power setting : Press the arrowed button , the showing power will flashing,then you can adjust power. It will increase or decrease 10% one time through up and down button,the power range is 20%-100%.As picture 3:



Picture 3

5. Confirming A/B: Press the arrowed button , the A/B will flashing,then you can adjust AB model by (▲) 、 (▼) button.As picture 4:



Picture 4

6. Start/pause time setting: After setting time 、 power、 AB model,Press the arrowed button as picture ,the bleaching system will light,and at that time the bleaching system will work according to the setting demand, and the screen will show the left working time,if time to finish the whitening,it will pause automatically;if you want to pause during whitening process,press the arrowed button.As picture 5:



Picture 5

7. Shortcut model setting: Press the arrowed button as picture ,it has 44%、 25%、 35%,which one is lighting, press the start button and that model will work.As picture 6:



Picture 7

8. Irradiation distance: adjusting the head of whitening light,it and teeth should be 90°vertical, putting opener contact face and then cover with paper.

Attention:

Whitening kit (user select by yourself),it refers to multi-brands and different brands of whitening kits,handing ways are different,yo can hand according to manual of whitening kit.

Selecting suggestion: The gel composition are 35% hydrogen peroxide、 26% of mass and their diameter are less than 20nm of silica、 calcium fluoride、 manganese peroxide、 magnesium oxide、 ferric oxide and methyl cellulose and so on.

【Whitening process】

1. Before working,the dentists should perform oral examination and communicate with patients,the whitening light is not suitable for less than 16 years old、 pregnant woman and patients are in periodontal disease and so on.
2. You can contrast and record the color of teeth before whitening,and save-photo.
3. Add a little water into polish and mix up,and then do simple treatment in dental surface.finishing treating,let the patients dry the surface of teeth after gargle.
4. Put the opener into the mouth of patients,and ensure that patients is comfortable.
5. Putting moisture proof cotton strip inside of lip,apply lip oil,and wearing cover-paper。
6. Applying gingival protector on gingiva, its thickness is about2-4mm ,covering gingiva into 0.5mm.patients and dentists all need to wear goggles,curing the gingival protector by curing light.
7. Mixing hydrogen peroxide and whitening powder into a paste
8. Applying pasted whitening kit on dry 16 pcs or more surfaces of teeth,its thickness is about 2-3mm.
9. Adjusting the head of whitening light,it and teeth should be 90 °vertical, putting opener contact face and then cover with paper. Preparing to work according to appropriate time and model.(it will stop when patients in tooth sensitivity and tooth pain)
10. Suggesting to set the time of course of treatment is for10 minutes or 15 minutes 。
The machine will stop automatically when finish the first course of treatment, and

then suck off whitening kit by strong pipette, and you can remove whitening kit by dry cotton ball, don't wash by water.

Attention: please be noted that "suck off" not wash by water. please be carefully, don't wash by water after treatment, patients should gargle by mouthwash.

11. Repeating steps for 7~10, and continuing course of treatment 2 and 3.

12. Actually, it will achieve whitening effects after three courses of treatment.

13. When it finish, suck off whitening kit, remove the light-cured resin and tampons carefully, remove opener and goggles, the patient should gargle by mouthwash by yourself.

14. You can save-photo after finishing the whitening and color matching.

Attentions after treatment:

- Whitening kit will effect during 2-3 days after treatment, so colored drink or food should be avoided. (such as tobacco, black tea, coffee, wine, etc.)
- After the first 24-hours treatment, it should be avoid cold drinks or hot drinks.

【Maintenance and upkeep of product】


1. Disinfecting whitening machine with disinfection alcohol after treatment, turning off in time.
2. It is strictly prohibited that it should avoid touching the hard thing or liquid. turning off the light when clean, wiping the machine with wet towel.
3. The machine should be checked once a month when it is not working for long time.

【Warnings and precautions】

1. Avoid the blue light shooting at the people's eyes directly, or the eyes will be injured seriously. When the bleaching system is working, Both of the patient and doctor must wear the protective glasses to protect the eyes.
2. When we adjust the place of the machine, we need to support the machine by one Hand, and support the upright stanchion by another, and then pull the bracket slowly to adjust the place of the machine, to prevent the bleaching system overturn, at the same time prevent the moving of the tripod.

3. The head of whitening machine should be wiped,disinfected and sterilized with 75% alcohol, before and after the treatment.
4. After using, we should close the electric power in time, it should avoid touching the hard thing or liquid.
5. If there is any problem in using the bleaching system, repairing without authorization is forbidding, or the bleaching system may not be guaranteed to keep in good repair.
6. The products is only for professional dentists.
7. Avoid using the machine in the environment with interference of electromagnetic wave (such as microwave).

Warnings !

1. Avoid the blue light shooting at the people's eyes directly when it works, in case of accident,please go to doctor.
2. **No touching**  symbol of pin of connector,and should not be connected with these connectors unless take measures to prevent electrostatic discharge.
3. For example of measures to prevent electrostatic discharge:wear an anti-static bracket,touch the surrounding ground metal to remove the static electricity.
4. Users are advised to train of ED symbols and ED precautions.

Contraindication

The machine is not suitable for patients with a pacemaker or other electronic instruments and around the electronic surgery.

It is not suitable for less than 16 years old、 pregnant woman and patients are in periodontal disease and so on.such as:

- ① patients with oral diseases
- ② patients with rotten teeth and missing teeth
- ③ patients with dental gaps or dental plate-incisor defects
- ④ patients with periodontitis
- ⑤ patients with serious dental calculus

【Storage and transport】

1. In order to ensure the safety of the products, during the transporting and the process of moving, we must be careful, no heavy things squeeze outside the box, no exceed to six layers of the height, no liquid goes into the box is also very important for the goods' keeping.
2. Store in -10 °C ~ 40 °C, no corrosion, and keep in a clean, well-ventilated, and relative humidity is not more than 80% of indoor environment.

【Simple troubleshooting guide】

The sorts of the Fault	The reasons of the Fault	solutions
No display	Switch off	Turn of the switch
No output	Without setting the relevant parameters	Set the parameters properly
Low luminosity	Selected a single group of LED(only A or B)	Select both A and B
Low luminosity	Without setting 100%	Set 100% output power
Any other breakdown	Contact our after-sale department	

【Packing list】

- 1、 Main Frame.....1pcs
- 2、 Pillar.....2pcs
- 3、 Horse1pcs
- 4、 Truckle4pcs
- 5、 M10 Screw.....1pcs
- 6、 M4 countersunk head2pcs
- 7、 Rotation Arm.....1pcs
- 8、 M4 Allen key.....1pcs
- 9、 M5 inside hexagon.....2pcs
- 10、 Manual1pcs
- 11、 Protective tube1pcs
- 12、 Goggles.....2pcs

【After-sale services】

Dear customers please read the manual carefully before using our products, and follow the instructions strictly when use them. Please be sure that you are using in the right way. If you have any problems or questions with the machine please contact our

after-sale service department, local agency or distributors. We will try our best to help you. Thank you for your support.

【Installation drawing】

1. Installation



1. Install all 4 truckles into horse



2. Connect the plug of the rotational arm and the main frame



3. Install the rotation arm on the top of the main frame

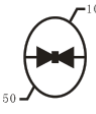
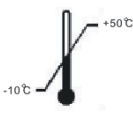




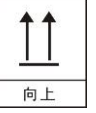








4. Connect the plug of the rotational arm and the head



5. Install the head on the top of rotation arm

十三、【Symbolic description】

	<p>Storage conditions: pressure: 50KPa-100KPa</p>		<p>Storage conditions: Temperature: -10 C ~ +50 C</p>
	<p>Storage conditions: Humidity is not more than 80% RH</p>		<p>Avoid sunshine</p>
	<p>No rain</p>		<p>Handle with care</p>
	<p>Upward</p>		<p>Anti-static mark</p>
	<p>Attention! Access to attachment paper</p>		<p>Product compliance WEEE instruction</p>

	Date of manufacture		Manufacturer
	BF type application part	IPX0	Anti dripping equipment

十四、【Schematic Circuit Diagram】

