

## Rhinitis Retriever Instruction Manual

## 1、 Summary

AN6010 Rhinitis Retriever emits the red light which is in 660 nanometer wave range shining on the mucous membrane in nasal cavity. The light acts on blood in capillary network, makes photochemical reaction and then is absorbed by mitochondria. Many enzymes in mitochondria such as catalase and superoxide dismutase are activated. This chemical reaction accelerates the cell metabolism, increases glycogen content, catalyzes protein synthesis and the breakdown of adenosine triphosphate, promotes the granulation tissue growth and the heals of wound and canker. The phagocytosis of hemoleukocyte can have an inflammation effect. The light of 660 nanometer can also accelerates the flow speed of calcium ion  $Ca^{2+}$ , improves the immunity against a disease.

The power of the red ray which export from this apparatus and the therapeutic time are both variable to adapt different states of the illness. In addition, this apparatus has two work modes as consecutive and pulsed.

AN6010 Rhinitis Retriever used mostly for allergic rhinitis which is caused by hay fever 、 house dust 、 animal hair and other allergic reactions.

## 2、 Main Performance Index:

- 1) Red light source: red light luminescent diode
- 2) Red light wavelength: approx. 660 nanometer
- 3) Classification: II a
- 4) Therapeutic mode:
  - a、 Continuous mode
  - b、 Pulse mode: Length 1 second, cycle 2 seconds
- 5) Intensity grade of red light output: 1to3 adjustable
- 6) Therapeutic duration: 3min to 30min adjustable
- 7) Indicating light: Two colors luminescent diode
  - A、 Continuous output mode: Green LED light up, sign of red light output on LCD display
  - B、 Pulse output mode: Green LED light and glimmer, sign of red light output on LCD display and glimmer
  - C、 Red LED light and glimmer when one or two channel is not connected to apparatus
  - D、 Yellow LED light and glimmer in low-voltage, and low-battery signal display on LCD
- 8) Display system: LCD
- 9) Power source: D.C. 4 x AAA batteries

3、 Caution: Warning: Don't use this product together with the following electronic medical apparatus and instruments:

- 1) Body implant medical apparatus such as pulse modulator
- 2) Medical apparatus used to maintain life such as artificial hear and lung pacemaker
- 3) Wearing medical apparatus such as ECG

It may cause danger for life if used together.

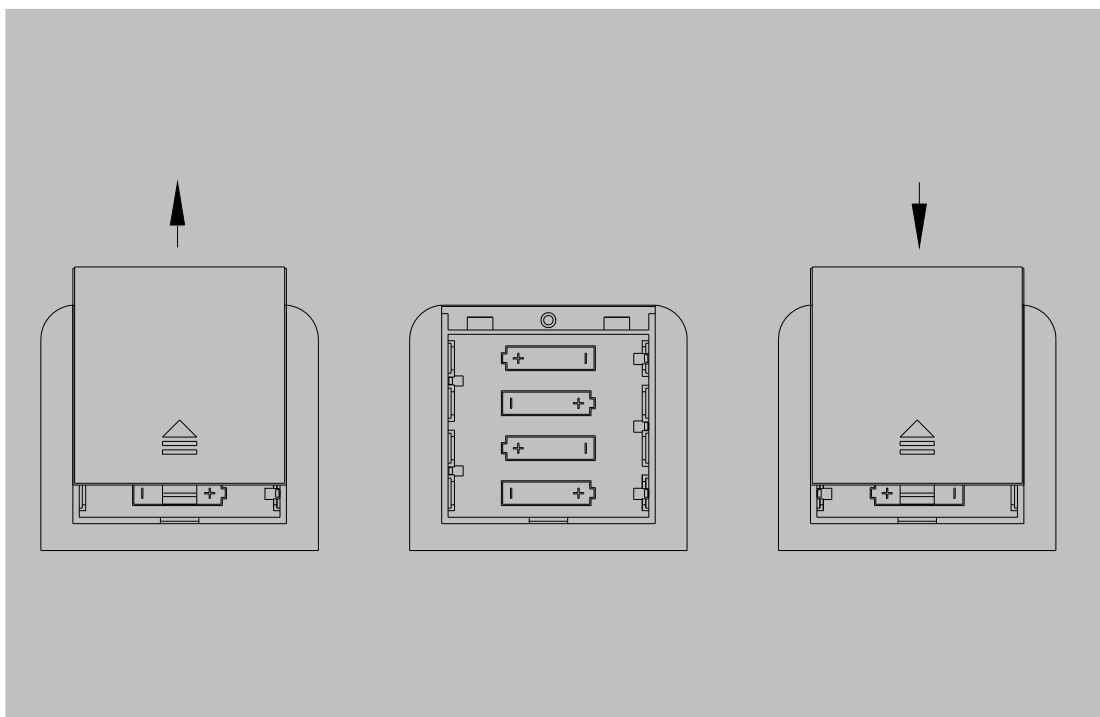
## 4、 Notice before usage:

- a) Please carefully read the instruction manual before using this item

- b) Patients having heavy illness must follow the doctor's permission to use this item
- c) If feeling any discomfort during usage, please stop using at once and get the suggestion from doctor
- d) Do not directly watch at the red light to avoid any burning on your eyes.
- e) Do not use this item in high humidity places
- f) Do not make children or unconscious people to use this item, and keep it out of reach of them.
- g) Do not disassemble the device by yourself

#### 5、Preparation before using

##### 1) Battery loading



- a) Open the battery cover on the back of rhinitis retriever.
- b) Put the batteries into the case according to the positive and negative pole
- c) Put the cover back

##### Usage of batteries:

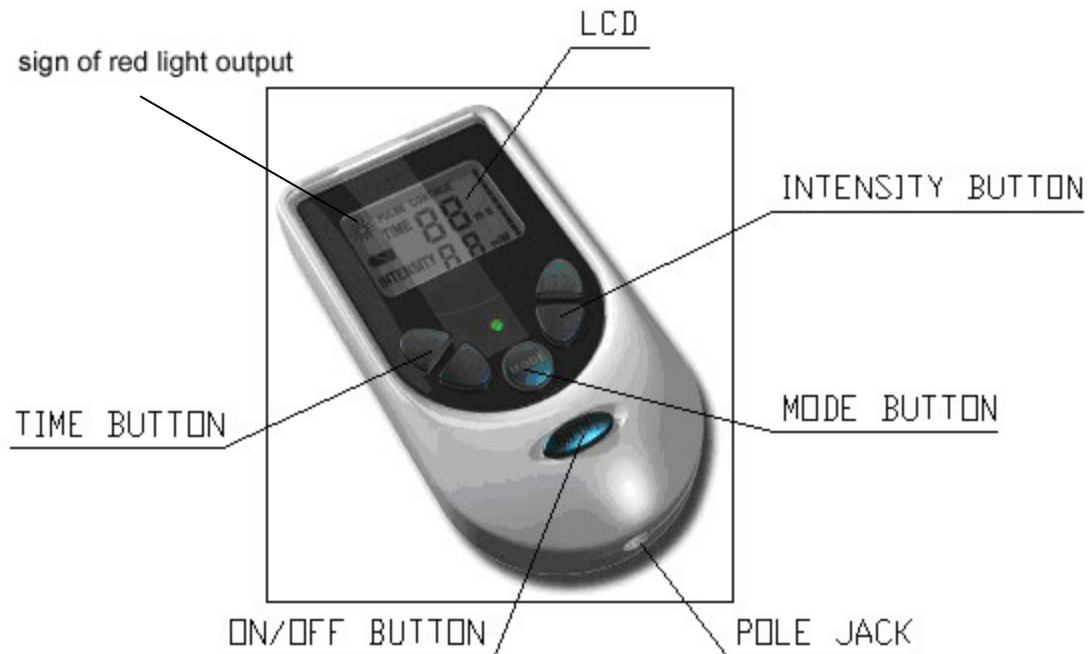
- a) Suggest to use AAA alkaline battery;
- b) Take out the batteries if the apparatus is not used for a long time; and store them avoid wet, high temperature, and sun light
- c) Don't mix the battery of new and old ones and don't use batteries of different category together
- d) The batteries in the package are used for confirming the function of the product., so the life of these batteries may be short;
- e) Do not throw the batteries into fire;
- f) Put the old batteries into the reclaimable box.

- 2) Put the plug of therapeutic head into the socket on the rhinitis retriever.

#### 5、Red light irradiation parameter setting and usage

Make sure that the batteries have been loaded before using. And Put red light therapeutic head into nasal

cavity.



- 1) Press "ON/OFF" button for more than one second to turn on the apparatus, LCD display as shown in picture 1.



Picture 1

- 2) Press "MODE" button to choose continuous or pulse therapeutic mode

The continuous mode, LCD display as shown in picture 1. Sign of red light output display, the arrow symbol cycles on LCD, while the green light glows.

The pulse model, LCD display as shown in picture 2. Sign of red light output display and glimmer, the pulse symbol displays, while the green light glimmers.



Picture 2

- 3) Therapeutic intensity setting: Press intensity "+" or "-" button to adjust red light therapeutic intensity.

As shown in picture 3



Picture 3

- 4) Therapeutic time setting: Press time "+" or "-" button to adjust therapeutic time. As shown in picture 4

Note: It will restart timing if you adjust therapeutic time in the therapeutic process.



Picture 4

- 5). This apparatus has a function of automatic shutdown after therapeutic time setting before. Press the "ON/OFF" button for more than 2 seconds to turn off the apparatus if you want to stop the therapeutic process during therapy.
- 6). The red light will glimmer while the plug of therapeutic head is not connected to the machine or one of the two channels broken.
- 7). The orange light glimmer while low battery. The LCD displays low power symbol as shown in picture 5.



Picture 5

7、Disinfection of red light therapeutic head: Disinfect the red light therapeutic head seriously by cotton swabs stained with 75% alcohols before use each time.

8、Maintenance after usage:

1) Maintenance of Host:

- a) Clean the host with cloth which is dipped into water or soap liquid. Don't use thinner, alcohol or naphtha
- b) Don't put the host in the heat, high dampness and direct sunshine
- c) Don't tear down the host without permission. Don't let it fall down from high and get shaken
- d) Don't put and use the host in the field which exist magnetism and electric wave such as TV loudspeaker.
- e) Keep it out of reach of children.
- f) Take out the dry batteries if the apparatus is not used for a long time;

2) Disinfect the therapeutic head with 75% alcohol in time after use each time

9、EMC:

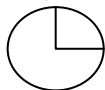
The EMC of this item comply the following standards:

Conducted Emission	EN55011:1998+A1:1999+A2:2002
Radiated Emission	EN55011:1998+A1:1999+A2:2002
Electrostatic Discharge	EN61000-4-2:1995+A1:1998+A2:2001
Radited Immunity	EN61000-4-3:2002+A1:2002
Magn.-Field Immunity	EN61000-4-8:1993+A1:2001

10、Transportation and storage

Control the temperature between  $-20^{\circ}\text{C}$  and  $55^{\circ}\text{C}$ . Keep the relative humidity below 95%.Use effective method to avoid damage such as crash

11、Symbol and label instruction



Symbol of time adjusting



Symbol of intensity adjusting



Attention! Consult the file in apparatus package!



Type B



This device and batteries must not be disposed of with household waste. This equipment should be taken to your local recycling center for sale treatment.

This product complies with regulatory requirements of the following European Directive 93/42/EEC concerning medical devices



①LED warning label



②LED instructions label

