

DOLMA

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The first professional medical appliance manufacturer domestically obtaining Germany TUV ISO 13485:2003 medical appliance quality system certification.

DOLMA High Potential Therapeutic Equipment

Instruction Manual

ShenZhen • China

DOLMA INDUSTRY LIMITED

Before use the products, please read the instruction manual!

PREFACE

Respect user //

Welcome to use the DOLMA high potential therapeutic equipment. It is our honor that the high potential therapeutic equipment produced by our company is entrusted by you. We prepare this instruction manual of the product for you, for the purpose of obtaining the general recognition of the therapeutic equipment by you. Such instruction manual contains using direction and technical description. The detailed contents are as follow: the brief introduction of therapeutic equipment, features, application scope, contraindication, using environments and conditions, main technical indexes, operation specification, notices, maintenance, common failure and reason analysis, packing, storing and transportation etc., which are indispensable guidelines for using such therapeutic equipment. We make great efforts to completely and easily compile the materials, which make you better understand the related knowledge of such therapeutic equipment and reach the objective that using the therapeutic equipment safely, high-efficiently and economically . Therefore, please read the instruction manual in details before use . It is helpful for you to use the therapeutic equipment effectively.

The company persistently improves the work seeking greater perfection. For the purpose of enhancing the performance and reliability of parts and the whole machine, we may change the hardware or software, which may cause the incompliance with the instruction manual. If it is incompliance, we won't give further notices.

In the using process, if you find any ambiguity in such instruction manual, please call us or email to us.

Prior to use, you're suggested finish the following works:

1. Check if the actual configuration of equipments confirm to those in the packing list; if the manual, warranty certificate and accessories are complete. For any question, please contact us or distributor immediately.
2. Please read the accompanied documents and keep it properly.

Please read the instruction manual in details and use the therapeutic equipment in accordance with the requirements of instruction manual.

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Dolma high potential therapeutic equipment

Instruction Manual

1. General Description

1.1 Product Introduction

The high potential therapeutic equipment is new model and multi-function therapeutic equipment that has researched and developed by centralizing the company's massive labors, materials and finances and by adopting the up-to-date electronic technology, electromagnetic theory and modern physical medicine for three years. It integrates high/negative potential, optical, leading prong and heating function and comprehensively adjusts and balances the human body cell, organization and organ system from innards to external body as well as helps person to eliminate the pain and disease and maintain the young vitality. Meanwhile, not only it enables to care health but also nourish body, which present the brand new conception of hi-tech, physical property, green and health.

1.2 Product Features

- Possess various functions such as high-voltage alternative electrostatic field, intermediate frequency 76KHz alternative electric field and heat.
- Possess indication tone of selecting key-press, therapy function and therapy ending.
- High/negative potential, two gears for high and low optical. The gears can change the output voltage.
- Unblock the meridian.
- Three gears in heat such as high, middle and low. When the temperature of high gear in heat exceeds $65^{\circ}\text{C} \pm 1^{\circ}\text{C}$, controlling device should be capable of turning off heating power supply.
- Change different output jacks(for example, high/negative potential, optical and heat), it can carry out various therapies.
- Adopt microchip to control. The performance of therapeutic equipment is stable, with low failure rate.
- High voltage generator is manufactured by special process to ensure the stability and safety of whole machine.
- Adopt the double-wire with protective tube and high voltage separation and protection device to ensure the safety of using.
- Easy, direct-viewing operation.
- The whole machine is equipped with perfect safety protection system, so the therapy process is safe and comfortable.
- The structure of whole machine is rational, with generous shape.

1.3 Adaptation disease

1.Osteoarthopathy: rheumatism, rheumatoid arthritis, cerebral apoplexy sequela, parenchyma contusion, pain in waist and lower extremities, scapulohumeral periartthritis, prolapse of lumbar intervertebral disc, cervical spondylosis.

2.Hypertension diseases: hypertension, hyperlipemia, cardiovascular disease, arteriosclerosis, and deficient blood supply of cardio-cerebral.

3.Neurasthenia:

- a: feeble symptoms: feeling of fatigue, insomnia, poor memory power and attention.
- b. Sentiment symptoms: restlessness, nervousness and irritability
- c. Exaltation symptoms: easy to excite spiritually and increase recalling and association.
- d. Tonicity pain of muscle.
- e. Sleep disorder.

1.4 Contraindications

- 1) Patient with cardiac pacemaker or metal foreign matter;
- 2) Person with therapeutic equipment for maintaining the life such as artificial heart-lung machine;
- 3) Person with electrocardiological therapeutic equipments and implanted with metal in body;
- 4) Malignant tumor patient;
- 5) Patient after organic cardiopathy surgical operation;
- 6) Patient with serious cardiac failure and pestilence;
- 7) Patient with hemorrhagic disease and high fever
- 8) Pregnant woman.

1.5 Composition and meaning of model

AK-W-2006

- 1) "AK": the enterprise code (company name);
- 2) "W": Catalogue code (W) civil use;
- 3) "2006": Design order (indicated by number);
- 4) "A": Improvement number (indicated by A, B, C.....)

2. Main technologies

2.1 Main technical parameters

- 1) Power supply : AC 220V, 50Hz;
- 2) Input power: 120VA;
- 3) Output current: 2mA;
- 4) Electric potential difference: 20%;
- 5) Time difference: 2%.

2.2 Functions

- 1) High/negative potential: high-voltage alternative electrostatic field; two optional gears for high and low potential; High (9000V), low (6000V); Optical; intermediate frequency 76KHz alternative electric field, two optional gears for high and low; High (1200V), low (950V);
- 2) Heat: The thermostatically control device is provided at the high gear of heat, and the temperature is kept ($65^{\circ}\text{C} \pm 1^{\circ}\text{C}$);
- 3) Leading prong: When carry out whole body treatment with high/negative potential, insert leading prong and implement the partial treatment at the same time. (At the beginning, please select low gear of high/negative potential)
- 4) Timing function: 30, 60, 120 minutes; three-segment selection for circulating in turn; 30 minutes opening mode;
- 5) Tone indication of timing therapy ending and automatic cutting the output.

2.3 Dimension of main unit

Length X width X height (mm): 450 X 370 X 110 mm

2.4 Weight of main unit

5 kg

3. Environmental conditions of application site

- 1) Environment temperature: 5°C - 35°C ;
- 2) Relative humidity: $\leq 70\%$;
- 3) Atmospheric pressure: 50kPa-106kPa;
- 4) Power supply: AC 220V, 50Hz.

4. Notices of installation site

- 1) Don't install it in the following sites. It may cause wrong movement of therapeutic equipment or failure.
 - High-temperature place irradiated directly by sun.
 - Chemical medicine storage place or places containing corrosive coal gas.
 - High humidity place and easily immersion place such as bath room.
 - Place adjacent to heating appliances such as heater.
- 2) Please do not put it on the unstable places for using.
- 3) Please do not use it near electric apparatuses, for example, TV and radio. It may cause noise and unclear picture.
- 4) The distances of main unit and accessories from wall, window curtain other metal objects are more than 20cm.
- 5) Please do not use it closing to high-power electric products such as microwave oven, otherwise it is possible to cause that the therapeutic equipment can't work normally.

5. Notices and safe (reading is necessary)

In order to correctly use the therapeutic equipment, please read the following “notices of using” in details before operate it.

The diagram-word indication herein aims at operating the therapeutic equipment by the user in a safe and correct way and preventing the user's and others' life and property from damaging. The consequences caused by wrong using methods can be distinguished by the words “Danger” and “Notice”.

All are important contents related to ensure the safety, so please obey it.



“Danger”: indicating that it will damage to the life if it is not operated in accordance with operation rules.



“Notices”: indicating that it will cause death accident if it is not operated in accordance with operation rules.



Indicating absolutely “forbidden” conduction. The specific forbidden contents are demonstrated in . The left diagram is used to express “Forbid to decompose”.



Indicating the conductions of absolutely “compulsive” enforcement. As for the compulsive contents, see the details “●”. The left diagram indicates “Unplug The power plug of socket”.



Danger

If the following electronic instruments for medical treatment are used in body, please do not use it.



- Person implanted with cardiac pacemaker.
- Person implanted with medical electronic instruments for maintaining the life such as artificial heart-lung machine.
- Person implanted with medical electronic instruments, for example, electrocardiological therapeutic equipments.



Notices

As for the patient having the following symptoms, please refer to doctor for consultation before use it.



- Acute disease
- Malignant tumor patient
- High fever patient
- Heart disturbed patient
- Infectious disease patient



Notices

In order to prevent the accidents such as electric shock, short circuit and fire, please comply with the following items.

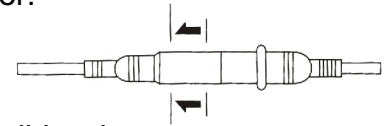
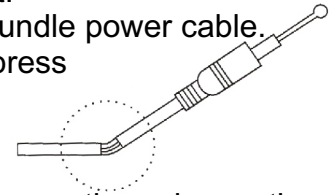


- Please do not decompose, repair and change therapeutic equipment.



- When unplug the power plug, please hold the plug end tightly to unplug it.

- Please use AC 220V power supply.
- Pls unplug the power plug if it is not used for long time.
- Pls do not stick metal or dust to AC power input socket.
- Pls do not damage, process, bend, pull, reverse and bundle power cable.
- Pls do not place heavy objects on the power cable or press the power cable.
- Do not use it if the power plug is damaged or plug is loosen.
- Do not use it if there is small hole on surface of connection wire or the connection wire is broken.
- Do not use it if treatment pad is moisten or has water.
- If the therapeutic equipment is failed, please unplug the power plug immediately and trust the local maintenance center to inspect and repair.
- Please correctly insert both ends of high voltage flexible wire.



Danger

- In order to prevent electric shock and damages, please comply with the following items.
- Please do not use it in high-humidity places such as bath room.
- Pls do not unplug or insert the power cable from the socket with moisture hand.
- Pls do not use the treatment pad with small hole or cracks.
- Before clean and maintain it, please unplug the power plug.



Notices

- Notices for children, infant and the person who is not convenient to move
- As for the infants and the person who is not convenient to move, they can use it accompanied with healthy adult. Do not directly contact the body with the Guide slot for long time when use it.
 - It is banned that the children independently use it without the protection of adult or use it at place where the hands of infant can touch. It may cause burning, electric shock and injury.



Notices

- Notices of using high potential therapeutic equipment
- In using, do not touch others or surrounding electric conductivity matters(for example, metal table, window frame, wall and ground) and deliver the objects.
 - Do not touch the metal parts of therapeutic equipment when use it.
 - Do not use it together with other therapeutic equipment.
 - When the power is off, please cut off the main power supply immediately and unplug the power plug, because it may lead to danger at the time of re-electrifying.

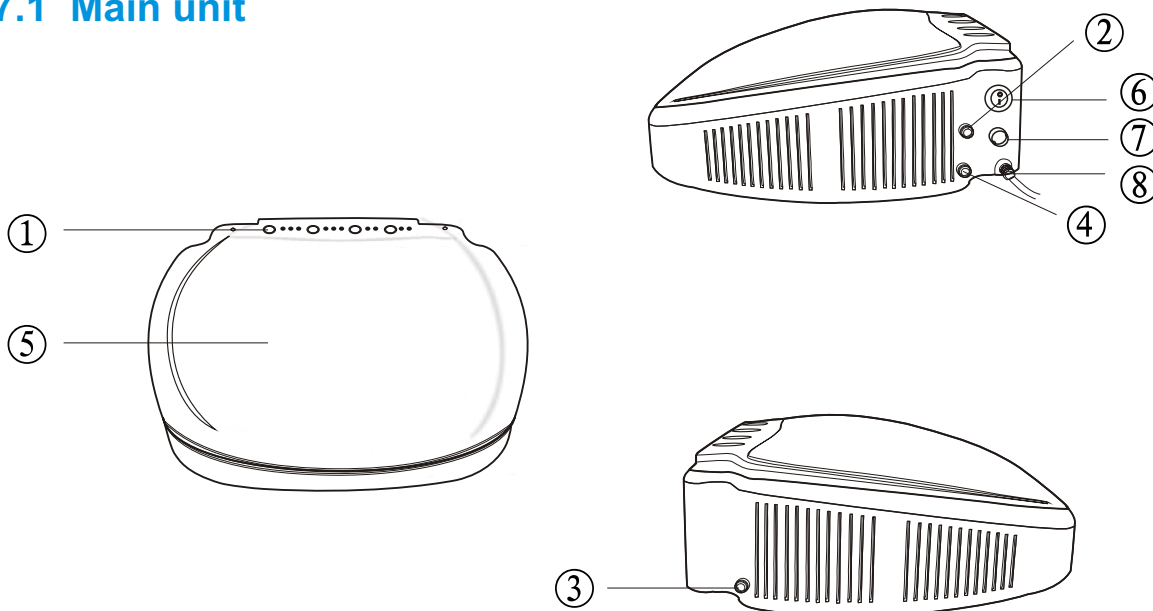


6. Notices before use

- 1) Adjust the therapy time and output voltage depending on the health.
- 2) For the persons with allergic constitution and feeble physique or treated primarily, they should begin the treatment in short time and at low voltage. With the increase of therapy, the body can gradually fit to it, and then properly adjust the therapy time and output voltage.
- 3) Carry out various wire connections in correct way.
- 4) Please confirm the installation status of therapeutic equipment. Check if the therapeutic equipment is normal.
- 5) If it is not used for long time, please confirm if the therapeutic equipment can work normally before re-start to use.

7. Introduction of therapeutic equipment

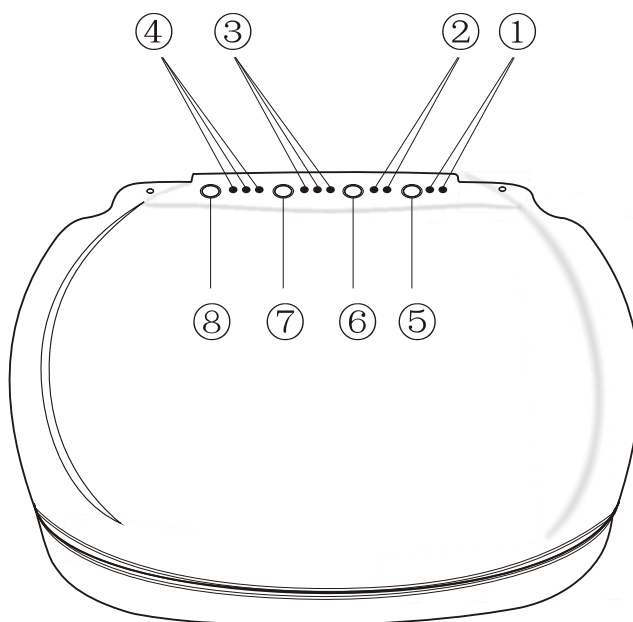
7.1 Main unit



- ① For detailed introduction of operation and display panel, see following contents.
- ② High/negative potential treatment pad inserts in high/negative potential function interface.
- ③ Optical electric potential treatment pad inserts in optical function interface.
- ④ Leading prong plugs in the leading prong function interface.
- ⑤ Heat function.
- ⑥ Power supply switch: "0" means "off"; "1" means "on".
- ⑦ Protective tube is equipped with "FIA" fuse.
- ⑧ Power cable.

■ If any appearance model and function parameters are changed, no further notices are given.

7.2 Operation panel of main unit



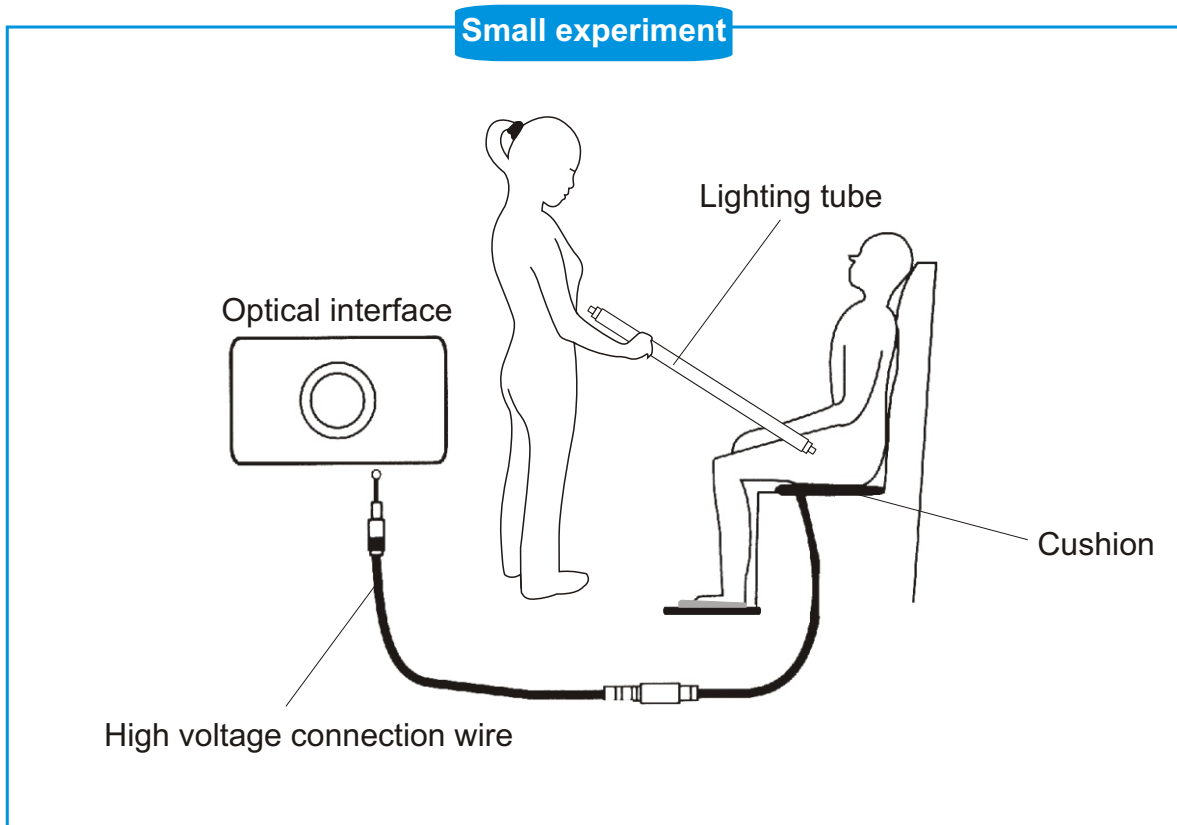
- ① High/negative potential indication lamp
- ② Optical indication lamp
- ③ Heat indication lamp
- ④ Timing indication lamp
- ⑤ High/negative potential key
- ⑥ Optical key
- ⑦ Heat key
- ⑧ Timing key

7.3 Operation steps

1. Accessories required for selecting therapy: for example, high/negative potential treatment pad, optical potential treatment pad. The plugs of relative accessories should be inserted into corresponding output socket. High/negative potential treatment pad corresponds to high/negative potential interface, and optical potential treatment pad to optical interface.
2. Connect the general power supply: the power cable plug of mainframe should be inserted into the socket of "power AC 220V". Open "0/1" power switch on right side to electrify the whole machine. Time display is 30minutes and indication lamp is lighten, which means that it is in stand-by status.
3. High/negative potential therapy: Under stand-by status, first select the set time, and then select high/negative potential low or high gear. If the indication lamp of corresponding gear is lighten and the machine is situated in working status after 2 seconds, output high/low potential.
4. Optical therapy: Under stand-by status, first set up time, and then select the low or high gear of optical. If the indication lamp of corresponding gear is lighten and the machine is situated in working status after 2 seconds, output 76KHz optical.
5. Set up time: After start up the machine, default 30 minutes, and it is in stand-by status. At that moment, set up the satisfied time (three gears in total: 30, 60 and 120 minutes).
6. Therapy function of leading prong: at the time of high/negative potential therapy, hold the leading prong to implement partial treatment, which can rapidly eliminate the symptoms in partial scope such as sore pain and numb, swell and ache.
7. Heat therapy function: Under stand-by status, set up the timing at first, and then select one of gears in heat (low, middle, and high gear), the heat will gradually be increased to temperature control scope of corresponding gear after 15 minutes.
8. After ending therapy: At the last 1 minute, indication tone of machine will be heard, and then the machine will be automatically closed.
9. If continuous therapy is needed, please follow the first step to start and select the therapy mode required by you.

Small experiment:

1. Test conditions: the person sitting on the treatment pad should be insulated to the ground; 20W light tube; two persons.
2. Test purpose: 20W light tube is to be lightened.
3. Test steps: The person sitting on the optical seat cushion hold one end of light tube, and the person standing on the ground hold the other end of light tube. Then, the person standing on the ground begins to touch the light tube with his other hand toward the direction of the hand holding the light tube end at 2cm from light tube held by the person sitting on seat cushion.



8. Maintenance and Inspection

8.1 Daily inspection

- ① Please check whether or not the power cable is seriously deteriorated or deformed.
- ② Pls check if the treatment pad or wire is seriously deteriorated or deformed.

8.2 Inspect it before use if it is not used for long time.

- ① Please check if push button and indication lamp can be normally operated.
- ② Wipe off the dusts and dirt on the wires and power socket. Keep clean.
- ③ If treatment pad and insulation pad is moisten by water or moisture, please use it after dry it completely.

Otherwise, it is possible to injure the hands or damage the treatment pad by electrical leakage.

8.3 Daily cleaning

- ① Please wipe off the dusts on the machine surface with soft dry cloth.
- ② Pls use the wet cloth with no drop when it is too dirty .



Notice

- ① Do not use organic solvent medicines such as dilution agent. Otherwise, appearance and external frame may be deteriorated or deformed.
- ② Please unplug power socket, before clean and maintain the therapy unit.

9. Common failures and trouble shooting

9.1 Common failures and reason analysis

Failures	Failure reason	Treatment methods
The indication lamp is not lighten when open the power supply.	a. The power cable is not plugged well. b. Grid power output end without voltage output, or voltage is lower than required value of power supply in the machine.	a. Check and correctly connect the power cable. b. Check and re-select grid power output end.
Optical therapy can't lighten the lighting tube.	a. Is optical started? b. Is the conductor of seat cushion connected correctly? c. Is connection conductor of seat cushion broken? d. Seat cushion and the patient sitting on seat cushion whether or not are insulated to ground?	a. Press optical starting-key to start. b. Correctly connect the conductor after close the machine. c. Change the seat cushion. d. Insulate and separate from the ground.
High/negative potential therapy without high voltage output	a. Whether or not the high/negative potential is started? b. Conductor of seat cushion whether or not is connected correctly? c. Seat cushion connection conductor whether or not is broken?	a. Press negative/high potential starting key to start. b. Correctly connect the conductor after close the machine. c. Change the seat cushion.
Heat without heating output	a. Whether or not the heat is started?	a. Press heat-starting key to start.

Notice: If the protective tube is burnt twice, it means that the therapeutic equipment fails, therefore, please contact with the maintenance center of the company.

9.2 Other failures

The professional person not employed by our company should not disassemble the therapeutic equipment randomly. If other failures are emerged, please contact with technical service department of the company.

10. Transportation and storage

10.1 Climate and environmental conditions

- 1) Environment temperature scope: -20°C~ +55°C;
- 2) Relative humidity scope: ≤80%;
- 3) Atmospheric pressure: 50kPa-106kPa.

10.2 Transportation

- 1) The product is applicable to the common transportation means, for example, vehicle, train, boat and plane etc.
- 2) Prevent the product from violently violating, colliding, dropping, rain and snow directing immersing in transportation. Carefully pile up the product upward, without overweight.
- 3) For special situations, implement in accordance with stipulations of goods contract.

10.3 Storage

- 1) The product should be stored in indoor with good ventilation, without corrosive gas.
- 2) If the product is not used for long time, first clean it and then pack and store it. It is better to take it out and electrify within half year, for the purpose of preventing elements from moistening and mildewed.

11. Unpacking and inspection

11.1 Notices of unpacking

- 1) Check the completion of packing before unpack.
- 2) When unpack it, the packing box should face up, and don't reverse it.
- 3) When unpack and handle it, be careful not to damage the machine.

11.2 Inspection items

- | | |
|---|----------|
| (1) Mainframe | 1 set |
| (2) Seat cushion | 2 pieces |
| (3) Connection wire of seat cushion | 1 piece |
| (4) Leading prong | 1 piece |
| (5) Protective tube | 2 pieces |
| (6) Instruction manual of leading prong | 1 copy |
| (7) Warranty certificate | 1 piece |
| (8) Product certificate | 1 copy |
| (9) Instruction book | 1 copy |

Notice: The user accepts the products in accordance with packing list. If it is changed, no further notice should be given.

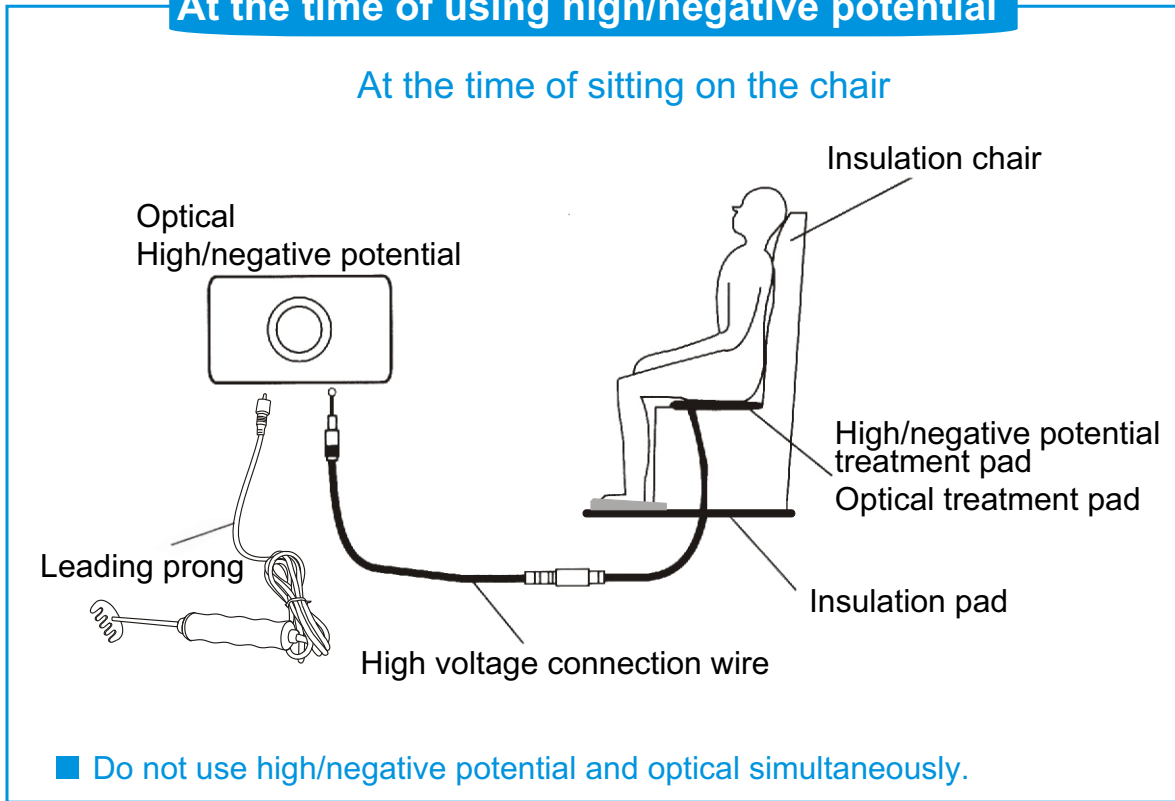
12. Responsibilities of manufacturer

- 1) If the fabricated products are not corresponded with the product standards, our company is responsible for repairing, changing and returning the products.
- 2) If the defects of the products cause the personal injuries and other property damages except the defected products, the company should undertake corresponding responsibilities, but our company should not bear the responsibility if the following situations occur:
 - a) When use the products, the defects resulting in damages don't exist;
 - b) The purchaser, operator and user use the product without careful reading product instruction manual and complying with safe notices and warnings.
 - c) Product, personal and property damage caused by product's using, installation, maintenance, transportation and storage.
- 3) As for the manufacturing quality problem within stipulated quality warranty period, we will repair the product for the user free of charge and provide corresponding technical services. For the warranty period, see warranty certificate.

13. Connection methods

At the time of using high/negative potential

At the time of sitting on the chair



Two persons use the high/negative potential at the same time

Connect "bi-pass treatment pad" that can be used by two persons simultaneously. Additionally, when use it, keep the distance between mainframe and treatment pad, or among treatment pads. Please use "high-voltage extended connection wire" of purchased products.

