

we are the one make you better



DIGITAL HEATING TENS

User Manual

BF   FDA 510K



Model: DS-1515

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Product introduction:

The low frequency therapy machine stimulates muscle and nerves directly to achieve therapeutic massages through generating low current to the human body, it can calm the nerves system and improve the blood circulation, which will be helpful for the physical therapy of pain relieving and tiredness recovery. DS-1515 low frequency therapy machine enables the user to perform therapeutic massage on four of the body locations simultaneously. The fully acting dual outputs operation enables to adjust the output frequency, pulse-width and current strength individually according to the needs and symptom.

Electrode Heating Pad provides heat compress function:

Heat compress can increase the expandability of collagen tissues, relieve and regulate the joint stiffness and muscle pain, and effectively relax muscle tightness and promote blood circulation. It can strengthen the curative effect of low-frequency therapy.

Product features:

1. Super large LCD display, with blue bright backlight, legible and easy for operation.
2. Eight preset programs of automatic therapy, simple operation.
3. The hot compress temperature can be set according to personal needs for most comfort.
4. Electrode heating pads (soft silica gel) include the combination of heat compress electrode and gel pad, designed to be extremely soft and reliable.
5. Large conductive pads increase the therapeutic area.
6. Operation setting on CH1 and CH2 panel are independently.
7. Easy to use single hand operation for the adjustments and selections.
8. The power on/off selection button is provided with emergency stop and power on/off function. It's safe and convenient.
9. Equipped with battery capacity indicator, to remind you changing the battery to ensure the best efficiency.
10. Micro-electronic energy-saving design, "SMT" automatic production to ensure the quality.
11. Patented design for safety: automatic detection when the pads filling off.

Benefits of DS-1515 low frequency therapy device

Effects of T.E.N.S.:

- Relieving the pain
- Relieving the numbness of peripheral nerves
- Massaging the muscles and stimulating the nerves

Effects of fomentation:

- Relaxing the tight muscles
- Improving blood circulation
- Relieving ache
- Accelerating the tissue healing

Safety Notice

- Prior to use this unit, please carefully read through the "User Manual" and "Safety Notice" to ensure proper operation.
- If the unit is improperly used or the Safety Notice is ignored, it might result in personal injury and equipment damage.

Danger!

Do not use with the following medical equipments at the same time:

1. Using a pacemaker or artificial heart or internal embedded electro-medical equipments.
2. Using artificial heart-lung pacemaker or life-support electro-medical equipments.
3. Using wearable electro-medical equipments such as heartbeat monitor.

If the above electro-medical equipments are used simultaneously, hazardous accidents might result from wrong operations.

Do not attempt to fix, disassemble, or modify the unit, or else it may cause accidents or malfunctions.

Non-original DC Adaptors are prohibited for use.

Notice!

- Please do not use in a hot environment or during a bath.
- Please do not use while driving or sleeping.
- Please do not use on infants, children or persons who can't express their consciousness.
- Please do not share the electrodes with other people.
- During the treatment process, adjust the output strength to a comfortable level.
- Each period of treatment should be limited to 30 minutes, and the recommended treating time for each body part is 15 minutes.
- For hot compress, the temperature should not be above 43°C/110°F, and the recommended temperature is 39°C/102°F~40°C/104°F.
- Should the body become uncomfortable or there are abnormal skin reactions during use, please stop immediately.
- When temperature of hot compress turns abnormal, please stop using immediately.

⚠ Warning! 🚫 Prohibition

This product is prohibited to use on those who with the following diseases/symptoms, or else, it will result in kickback or accident:

1. Acute disease or serious infective disease sufferer.
2. Heart disease sufferer or pacemaker user.
3. Hypertension (>180mmHg) sufferer.
4. Fever (body temperature>38°C/100°F) sufferer.
5. Anemia or malignancy sufferer.
6. Gestating or pregnant women.
7. Serious skin disease sufferer or those who with abnormal skin.
8. Those who with special body abnormal or nerves abnormal.
9. Do not apply this product to heart, head, face, private parts and sensitive areas.
10. Those who with cancer or inflammation on the therapeutic parts.

Product specifications

Model	DS-1515
Battery	AAA x 3
Power output	Output current: 100 mA (Load 500Ω)
Output	Separated 2 channels 4 connectors
Temperature range	OFF: 35-42°C, OFF: 96°F-108°F
Frequency	1-180 Hz
Pulse Width	100-300μS
Time setting selection	10 / 20 / 30 min Slider / Waist / Elbow / Foot / Pound / Push / Press / Knod / Auto run
LCD display	TN-TYPE (blue luminescence backlight)
Power input	DC 12V/1.5A
Power consumption	TENS / 1 W & Heating / 18W
Product weight	About 120 g (Not including battery, adaptor)
Button feature	Multi-color high-quality soft rubber button
Material of Main unit	ABS Main unit color: Milky white

Instruction manual

Parts description:

Main unit panel



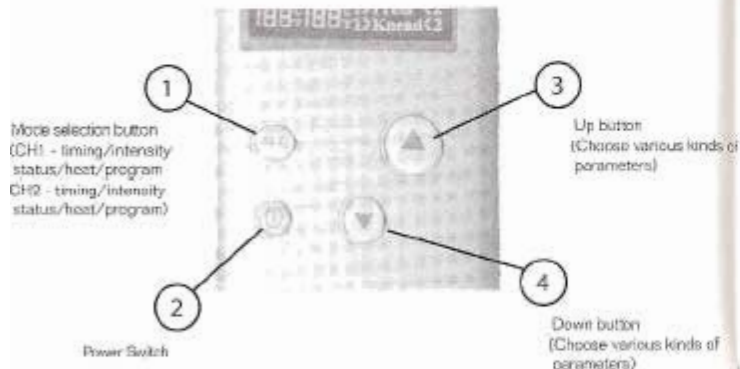
LCD display panel function description



1. Timer setting value
2. Battery capacity indicator
3. CH1 intensity setting value
4. CH2 intensity setting value
5. CH1 Temperature setting value
6. CH2 Temperature setting value
7. CH1 Program Option: elbow; press; knead; shoulders; waist; pound; push; foot (Program Mode)
8. CH2 Program Option: elbow; press; knead; shoulders; waist; pound; push; foot (Program Mode)

Button function description

CH1 and CH2 functions are defined densed, and are selected/adjusted independently.



Power switch On/Off selection button

Used to turn on/off DS-1515 main unit.

Temp. adjustment :

Press **SLT** button for heat compress function, set the temperature with up & down button and the temperature level will be shown on the LCD display.
The temperature range is OFF-35-42 °C , °C unit (OFF-96-106°F).

Current intensity selection button:

Press **SLT** button for the adjustment of current value, set the current intensity with up & down button and the output intensity level is displayed in numbers on the LCD.
The output current range is 1-9 , it can be set according to the requirements of use.
* The device has the function to automatically detect the falling off of pad, when the electrode heat compress pad is not properly placed on the therapeutic part, the output intensity value will be "0" or can not be adjusted. The related parameters will not be displayed on the LCD.

Program selection:

According to the different output action modes, press **SLT** button to program mode, using up & down button to select the program to treat.
program option (Shoulder; Waist; Elbow; Foot; Point; Push; Press; Knead; Auto run).

Pulse-width:

The Pulse-width value can be set automatically according to the different output action modes options.

SLT button :

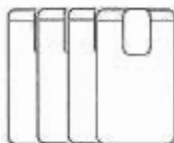
On the parameter setting status, adjust the values (temperature/program/intensity/time)

Time selection :

Timer function :

To set the timer: the desired treatment time, (the timing adjusting range is from 10/20/30 min)

Accessories



Heat compress electrode x 4 pieces



Gel pad x 4 cases



DC adaptor



Lead wire x 2



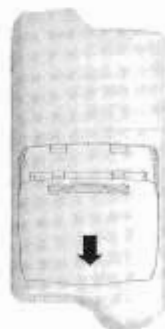
AAA x 3

Installation Procedures

Battery Installation Procedures:

- Correctly install 3 batteries into the battery chamber according to their polarities, and properly secure the battery chamber lid as shown in the picture below.
- Only the regular and alkaline batteries can be used; rechargeable batteries in other specifications are prohibited for use.
- Unspiced battery is prohibited for use.

1.



Slide off the battery chamber lid in indicated direction by the arrow.

2.



Battery Polarity Indicator

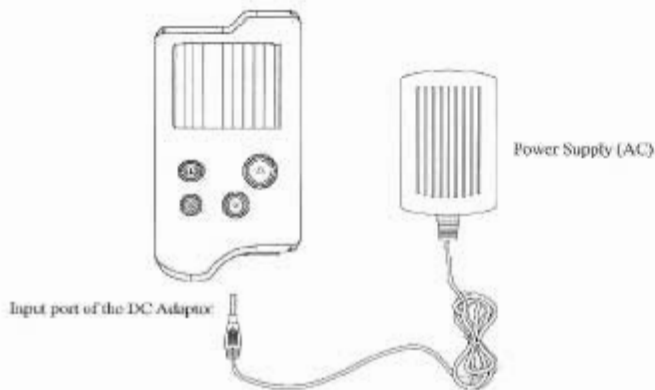
Install the batteries according to the polarities into the battery chamber as illustrated above. Secure the battery chamber lid.

DC Adaptor installation procedure

DC Adaptor plug installation procedure

- When using the heat compress function, the DC Adaptor must be installed to supply power.
- DC Adaptor Specifications:
Output: DC12V / 1.5A
- Plug the DC Adaptor output terminal into the tail end of DS-1515 main unit (refer to the illustration below), to provide main power for heat compress pads.

⚠ Non-original DC Adaptors are prohibited for use.



Plug the DC Adaptor's output terminal into the tail end of DS-1515 main unit

Heat compress electrode & Gel pad connection

There are two faces on the gel pad: heat compress electrode adhering face and skin adhering face (please take the sign on the lin of surface for reference).

1. Remove the leather coat on the heat compress electrode adhering face, then place the gel pad on the heat compress electrode face of the heat compress electrode.
2. Remove the lin on the skin adhering face, then place the heat compress electrode and the gel pad on the skin of the therapeutic part.



- 1** Remove the slice cover on the electrode adhering face



- 2** Place the gel pad on the surface of heat compress electrode pad



- 3** The gel pad is firmly adhered to the heat compress electrode

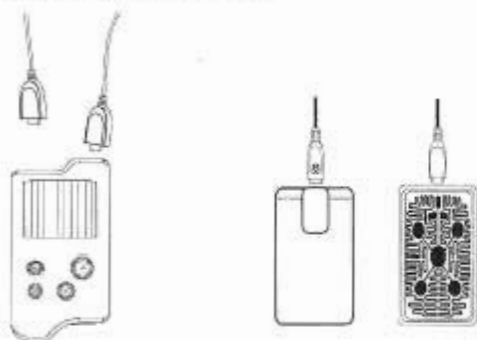
Notice

- Do not remove the lin on the gel pad.
- The gel pad must be precisely placed on the electrode face of the heat compress electrode. Make sure to match the direction and angle as indicated.
- If the gel pad is not properly placed, please carefully peel it off and try again.
- Please keep the heat compress electrode dry and clean, do not expose to high temperatures and refrigerator.
- Do not stick the two gel pads onto each other, please put lin back on the gel surface after each.
- The gel pads are consumables, except for manufacturing defects, all opened components are not returnable.
- Non-original gel pads may be strong acidic/alkaline, and may corrode the metal electrode face of the heat compress electrode. Please use our quality-guaranteed products.

Lead wire connection

Plug the lead wire into the output socket of DS-1515 main unit according to the marked plug-in direction, and properly connect the other two ends to the two electrode pads.

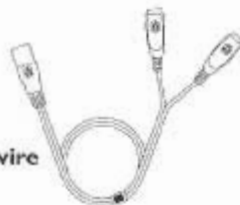
DS-1515 main unit is dual channel (double output) designed, the user can choose to use a single channel connecting with two electrode pads or use both two channels with four electrode pads simultaneously.



1 Plug the lead wire into the output socket of DS-1515 main unit according to the marked plug-in direction.

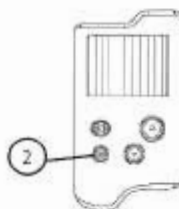
2 Properly connect the other two ends to the two heat compress electrodes.

Lead wire



Power on procedure

Power Switch



Press the power on/off selection button



Backlight lights up

Explanation of LCD display of the pads falling-off detection function



The displayed content when the pads are properly placed

Explanation:

1. The lead wire are not properly connected to DS-1515 main unit, or the heat compress electrodes are not properly plugged in.
2. The heat compress electrodes and gel pads have not been placed on the skin, or the adhesivity of the gel pad is poor.
3. The lead wires or pads are damaged.
4. Low battery.

Operation Instructions


Power on/off selection button (ON/OFF):

- Press this button to power on/off the unit.
 - Power on, parameter settings are displayed on the LCD; Power off, no signal on the LCD.
 - The on/off switch is able to function as an emergency stop.
- ** If there's no adjustment setting action within 8 seconds after pressing the setting selection button, the setting selection status will be released automatically.

1.Heat compress selection button


CH1 and CH2 heat compress selection button can be set and operated independently with identical operation procedure.

Before setup you must prepare the following:

- a. Connect the heat compress electrodes to the lead wires, and connect the lead wires to DS-1515 main unit.
 - b. Plug the DC adaptor into the wall socket, and plug the DC output terminal into the DC input port of DS-1515 main unit.
 - c. Smoothly place the gel pads on the electrode faces of the heat compress electrode.
 - d. Place the heat compress electrode and the gel pads on the therapeutic part, then press the power on/off button to startup.
 - e. After correctly connect the lead wires, the current intensity will be displayed on the screen as 0.
- * When the screen doesn't display the output current intensity, please check above procedures or refer to the specification of startup procedures.
- 1.1. Press the  button to heat compress selection (the temperature setting value will flash on the screen, see figure below), make the setting option to be CH1/CH2




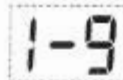
- 1.2. After choice CH1/CH2 heat compress selection, view the temperature setting value that flash on the screen. And using the up & down button to adjust OFF->35°C~42°C/95°F~108°F.

- 1.3. The heat compress electrodes will output constant temperature according to the temperature setting value.
 - 1.4 To switch the temperature unit from °C to °F, please press the  button more than 2 seconds.
 - * The normal displayed temperature is the actual detected value, and the flash displayed one is the setting value.
 - ** When the body temperature or environment temperature is too low, the detected temperature may not reach the temperature setting value.
- When the temperature of the heat compress electrode is abnormal, please remove the plug of DC Adaptor immediately.

2.Current intensity selection


CH1 and CH2 current intensity can be set and operated individually with identical procedure. Please prepare the following before startup:

- a. Connect the set of wires of electrotherapeutic and heating pads to CH1 and CH2 slots on the main unit.
- b. Smoothly place the gel pads on the electrode faces of the heat compress electrodes.
- c. Place the heat compress electrode and the gel pads on the therapeutic part.
 - 2.1 Press the power on/off button to startup, then press the  button to "intensity segment" using up & down buttons to adjust intensity for CH1 / CH2 from 1-9. (the current strength value will flash on the screen, see figure below), make the setting option to be CH1/CH2 output intensity setting.



- ** The device has the function to automatically detect the falling off of pad, when the heat compress electrodes and the gel pads are not properly placed on the therapeutic part, the output intensity value will be "0" or can not be adjusted. The low-frequency & temperature related parameters will not be displayed on the LCD.
- ** The target value of the output current intensity should be personal comfortable.

3.Mode selection

Press  button to program mode, to choice which auto program you want to use for treatment. (the program symbol will flash on the screen, see figure below, make the setting option to be the CH1/CH2 program option.)

Program Mode:

Shlder / Waist / Elbow / Foot / Pound / Push / Press / Kne ad / Auto Run 

Using up & down button to select the program function:

the sequences of program function are as below

- (1) Shoulder: Use on shoulder area of insufficient blood circulation to improve condition.
- (2) Waist: Massaging and rubbing to relieve the pains on waist or back.
- (3) Elbow: Soft pinching action to relieve tingling pains.
- (4) Foot: Stimulating the foot/leg to release the whole body, as comfortable as walking bare footed.
- (5) Pound: When feeling stressed or tired, use this function to relieve fatigue.
- (6) Push: As a small stream gently flowing, and wave motion can reduce the pain and discomfort.
- (7) Press: Similar to slowly applying pressure with hands and fingers to improve condition.
- (8) Knead: Gentle massage methods to relieve numbness.

Auto run : Shoulder → Waist → Elbow → Foot → Pound → Push → Press → Knead

Circularly select and set up next program function according to the current program function.

If the program selection symbol flashes, it means that the program function had already been selected.

During the program adjustment of the program mode, the program symbol indicated another program does not display. And after the program switching changes, the output current strength goes to 0.

4. Time adjustment

- 4.1 Press the mode selection button (SLT) (the timing value will flash on the screen, see figure below), make the setting option to be the timing adjustment.



- 4.2 After press the mode selection button (SLT), view the timing value that flash on the screen, using up and down button to adjust 10/20/30 min.

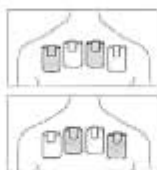
Display of heating symbol & temperature parameters:

- a. Pads falling-off detection function, when the heat compress electrodes or lead wires are not properly installed, or the gel pads are not properly placed, the heat compress electrodes stop heating, and the heating temperature parameters will not be displayed.
- b. When the temperature is set as "OFF", the detected temperature parameter will not be displayed.
- c. Temperature parameters:
 1. When it is the detected temperature, the temperature value will be continuously displayed on the LCD.
 2. When it is the setting temperature, the temperature value will be flashed on the LCD.

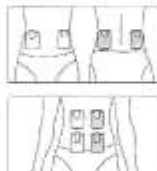
Pads position and function description

TENS (Transcutaneous Electrical Nerve Stimulator) Applicable to all body parts:

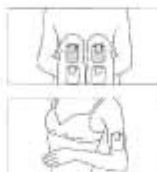
1. **Shoulder** : Use on shoulder area of insufficient blood circulation to improve condition.



2. **Waist** : Massaging and rubbing to relieve the pains on waist or back.



3. **Elbow** : Soft pinching action to relieve tingling pains.



4. **Foot** : Stimulating the foot/leg to release the whole body, as comfortable as walking bare footed.



5. **Pound** : When feeling stressed or tired, use this function to lessen the fatigue.



6. **Push** : Suitably apply to release pressure and to massage muscle of body.



7. **Press** : Similar to slowly applying pressure with hands and fingers to improve condition.

8. **Knead** : Gentle massage methods to relieve numbness.

Auto run  Shoulder → Waist → Elbow → Foot → Pound → Push → Press → Knead

Maintenance and storage

Main unit

- Do not drop it from height, impact or submerge it in water.
- Store it under room temperature and in dry location.
- Do not use any chemical agent to wipe or clean it.
- Do not disassemble and assemble it.



Do not drop it
from height



Don't impact



Don't expose to high
heat or wet
environment



Don't use any chemical
agent to wipe or clean it.



Do not disassemble
and assemble it.

Electrode heating pads package

(heat compress electrode, gel pad and lead wire are consumables)

- Do not stick the two gel pads onto each other.
- Must keep clean and keep away from dust, oil and dirt.
- Do not wipe and clean the heat compress electrodes or gel pads with any chemical agent.
- The skin placed gel pads must be clean to avoid affecting its lifespan.
- Store it under room temperature and in dry location.
- When the heat compress electrodes are damaged or unusable, please replace with new original products.
- For its adhesivity, the leather coat on the gel pad must be removed.
- Don't drag the lead wires.



Do not stick the two gel pads
onto each other.



Don't drag the lead wires.



Don't expose to sun, high
temperature or wet environment.



Do not wipe and clean the pads
with any chemical agent.

Notice

Our quality guarantee does not apply to the damages caused by non-original accessories and consumption materials.

DIGITAL HEATING TENS

Heat compress TENS electric stimulator

Notice

1. Please do not use in a hot environment or during a bath.
2. Please do not use on infants, children or persons who can't express their consciousness.
3. Please do not share the gel pads with other people.

Warning

1. Please do not apply to heart disease sufferer or pacemaker user.
2. Please do not apply to serious skin disease sufferer or those who with abnormal skin.
3. Please do not apply this product to heart, head, face, private parts and sensitive areas.

Model: DS-1515

Battery: AAA x 3

Output current: 100 mA (Load: 500Ω)

Time setting: 10/20/30 min

Power consumption: TENS / 1 W & Heating / 18 W

DC Adaptor: DC12 V/1.5A

Heat compress electrode x 4 (Consumable)

Lead wire x 2 (Consumable)

Gel pad x 4 (Consumable)

Environment temperature: 10°C - 40°C

Environment humidity: 40% - 90%

Warranty Card

1. For any failure occurred under normal use within the warranty term, please forward the product along with this warranty card to our company for free maintenance.
2. Lead wires and electrode pads are consumables, if any of them is damaged, please contact the distributor or agent to buy new original products for replacement.
3. Gel pads are consumables, if any of them is damaged, please contact the distributor or agent to buy new original products for replacement.
4. This guarantee does not apply to damages sustained by the following:
 - (1) Damage due to excessive heat, fire, earthquake, floods, lightning, other natural phenomena, and/or any act of God.
 - (2) Damage caused by improper use or repair.
 - (3) Damage due to wrong supply voltage (failing to comply with the specifications on supply voltage).
 - (4) Damage caused by non-original accessories or consumption materials.
5. This warranty card will be invalid without any of the following: customer name, product serial number, warranty term, our warranty stamp or distributor's stamp.
6. No change or alteration is permitted, or else, this warranty card will be invalid.
7. This warranty card can not be reissued. Please keep it carefully.
8. The warranty term is 1 year. Please fill in the purchase date, or else, this warranty card will be invalid.

Customer Name: _____	Warranty Stamp (Agent)
Product Name: DIGITAL HEATING TENS Model: DS-1515	
Serial No.: _____	Warranty Stamp (Distributor)
Purchase Date: _____ Y/M/D	
Warranty Due Date: _____ Y/M/D	