

  
**sonocare**  
CURE & THERAPY

**USER MANUAL**



Product :  sonocare

Model : NP-300

Rev.0 (2016.11.21)

## Reference before use


This user manual contains all the information to help users understand how to control and operate the product.


If you have any question or problem regarding handling the product, do not hesitate to contact us.


Manufacturer and official agency shall not be responsible for any problem occurring from misuse or violation of descriptions in the user manual or any problem occurring from unqualified operator.

The product and company means each NP-300 and NEWPONG in this user guide.

This user manual marks safety and precaution signs with the below words. Please use the product in a right and safe manner after reading marked danger, warning, caution, and notice in this manual in detail.

 <b>Danger</b>	Do not disregard "Danger" sign. It may cause serious injury, death or a property loss.
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 <b>Warning</b>	Do not disregard "Warning" sign. It may cause injury or deterioration of health.
--	--

 <b>Caution</b>	Do not disregard "Caution" sign. It may cause minor injury, temporal impact or damage the product.
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Manufacturer and retailers are not responsible of any damages caused by misuse or improper maintenance.

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## Precautions on Use

### Caution during the use

#### 1. Caution and warning during the use

##### (1) Warning

- 1) Electrical device has potential electrical shock so maintenance and repair should be done by qualified person who has proper service document.
- 2) Fully aware of operation method.
- 3) Ultrasound gel should be used. Water and water soluble product are not used together.
- 4) During the output of ultrasound energy, patient and device should not be moved.
- 5) Use for only intended use in manual.

##### (2) Caution for patients.

- 1) After checking the patient status and considering the clinical treatment guide line, set up the proper parameter.
- 2) Use the machine with prescription and instruction of medical specialist.
- 3) Avoid the treatment to the pregnancy and children.
- 4) Avoid the treatment to patient who has progressive dermatitis or treat after consultation with medical specialist.
- 5) Prohibit the treatment to the acute disease patient who has over 38°C body temperature with bloody condition
- 6) Prohibit the treatment to abnormal blood pressure, infectious and tubercular patients.
- 7) Prohibit the treatment to malignant tumor and heart disease patients.
- 8) Prohibit the treatment to patients who can have the hemotelangiosis from the liver function disturbance and from the long use of steroid hormone.

- 9) Prohibit the treatment the patients who has atomic bomb disease and legal communicable disease.
- 10) Prohibit the treatment the patients who has face melanosma, outpatient and hot fever.
- 11) Prohibit the treatment to patient who take medicine.
- 12) Patients who has face lift can get the treatment after consultation with medical specialist.
- 13) If treatment area has redness after treatment(normally redness is disappear within few hours), prohibit the shower and clean the face with hot water.
- 14) After treatment, skin will be sensitive. It is recommended to avoid the keratin removal for a week at least.

### **(3) Caution according to negligent use**

- 1) If operator uses other accessories beside designated accessories, it may downgrade the device's safety and performance. Please use designated accessories only.
- 2) For the combination use with other equipment, it may harm. Please caution.
- 3) After the checking the contaminated material or debris in probe, remove the debris and material with alcohol gauze.
- 4) For the sensitive skin, it may make redness after treatment.
- 5) It may damage to skin from overuse or intensive special area treatment.

### **(4) Normal Caution with use.**

- 1) Please do safe treatment after pre operation and training of usage.
- 2) Treat with low energy to thin skin.
- 3) Device and accessories can be damaged by minor impact. Special caution

with transport or move.

4) For the treatment, remove every metal of patients.

5) Do not combine with other equipment. It may cause the malfunction or damage to patients.

6) During the treatment near the eye, check the energy level and depth of energy delivery and use the proper energy for the treatment.

7) Do not combine with ECG and prohibit the treatment to patients who has facemaker or heart-lung machine.

8) Prohibit the treatment to Pregnants and children under 12 years.

9) If the trouble is founded on device or patients, stop the device first and then leave the patients safely and then do the right things with prompt way.

10) If the problem is founded on Device, stop the use and turn off the machine.

11) Check the patients or device during the operation.

12) After the treatment, remove the gel in the skin.

#### **(5) Cautions with maintenance**

1) Remove gel immediately after treatment

2) Be careful not to bend the horse which connects main body and probe.

3) Regular inspection of products and components is recommended.

4) Store the products in dry place without wetness.

5) Check safe operation before use if it is not used for a long time.

6) Avoid direct light.

7) Be careful not to drop the probe. It can be a cause of malfunction.

8) Store the power cable after separate from socket.

9) Do not store the product in place with wetness.

10) Store with cautions of inclination, vibration and shock.

- 11) Do not store the device in storage place for chemicals and place where generates gas.
- 12) Store with consideration of sanitation, sterilization before reuse of contact point with skin is recommended.
- 13) After treatment, remove gel, wash with soft tissue or gauze and wipe with a wet alcohol swab
- 14) Wipe with soft cotton when you clean LCD touch screen.
- 15) Wipe with soft cotton with moisture which is not greasy when you clean the product surface.

## 2. Environment and conditions of use

- (1) Do not use where humidity is high.
- (2) Use in unaffected place from atmospheric pressure, wind, sunlight and salinity.
- (3) Do not use the product in chemical storage and place where generates gas.

## 3. Cautions for damaged situation and remodeling prohibition

- (1) When the product is damaged, do not fix or decompose arbitrarily. Contact to retailer or A/S department of manufacturer.
- (2) Medical device should not be remodeled.
- (3) Arbitrary opening, decomposition and remodeling of product can cause dangers of injury, dead or fire caused by electric shock.

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# Chapter 1

## Cautions before use

### 1.1 Preparations for safety



Please check the product and accessories weekly.  
 Avoid operating the product which has visible damage. It may harm to patients.




 <b>Warning</b>	Please understand this user guide before use. Otherwise, it may harm to people or damage the product.
 <b>Warning</b>	Misuse of the product can harm to patients. The people who are well trained and properly understood dangerousness and benefit of the product have to use.
 <b>Warning</b>	Safety and effectiveness of the product and components have been confirmed. Accordingly, safety and efficiency coincides with function requirement.

### 1.2 Cautions for safety of electricity

Please check the below notice before use.







- Check the power supply line of adaptor is used in a right manner. (100-240V AC).
- Check all the connections of the product.

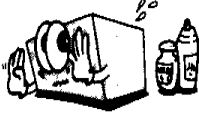



 <b>Caution</b>	NP-300 is classified as below. : -The product is classified as class 1 and type-BF for electric shocks. -Avoid operating nearby flammability anesthetics and a solvent. - It is classified as A class (IEC/EN 60601-1) for noise by Safety of Electric Medical Equipment., The exemption of electromagnetic compatibility requirements is level B(IEC/EN 60601-1-2, Electromagnetic Compatibility Requirements)
 <b>Warning</b>	Electric medical equipment should have special prevent measure by EMC and be installed following manual by EMC. In addition, portable RF communications equipment may influence on electric medical



	equipment
 Warning	RS-232 port in side of product and accessory which is connected to analog or digital connecting part have to be certified by IEC standard regulation in order to be used.
 Warning	Electric devices have potential electric shocks. Please establish education policy and procedure for risk factors related to electric devices. Only qualified person, who has proper service documents for the electricity shock, can repair this device.
 Warning	Please check whether electric specification of building is compatible with electric specification of device. Power of every device which is connected to outlet of stand has to accord with electrical requirements written in the back side of stand. Otherwise, it may cause damage to patients and product.

### 1.3 Cautions for product usage environment

Avoid using and storing product under the condition as below

	Do not use the product with moist hands in a humid environment		Keep the product out of direct sunlight
	Avoid using and storing under the condition of big temperature variation (Proper temperature : 10°C~30°C)		Avoid using in the place near electric heating appliance
	Avoid using and storing under the condition of high humidity and bad ventilation (Useable humid : 30%~75% R.H)		Avoid using and storing under the condition of excessive impact or vibration

	Avoid using and storing under the condition of explosive gas exposure or chemical substance exposure.		Avoid using and storing under the condition of inserting dusty or metal material
	Do not disassemble or modify the product on your own way. Our company shall not be responsible for any problem.		Please do not connect power code before setting is done. It may damage product

 Warning	If this device's arrangement is not verified in general usage environment, please do not use this device in close to other devices.
 Warning	Do not touch or connect pins which have ESD warning symbol if there is no ESD protection procedure. The protection procedure includes antistatic cloth/shoes, contacting to drain stud before connection or during connection and usage of antistatic gloves which is isolated from electricity. All above operators has to get instruction for the procedures.

### 1.4 Symbol Definition





Symbols	Description
	Used for safety caution. Be well-informed of contents with user manual before use.
	External signal input/output port
IPX7	IPX7 Waterproof(probe)
	User manual
	The product cannot be generally discarded. It should be separately collected and recycled. Contact Newpong for any Inquire about disposal.

Table 1-1. Symbol Definition

# Chapter 2

## General

### 2.1 Product introduction

NP-300(Hereafter sonoCare) is ultrasound stimulator use system which consist of one main body and 4 types of probes(Sy, Sb, Ly, Lb probes). This device delivers the ultrasound energy for relieving the pain using 1 Mhz, 3 Mhz and 10 Mhz frequency.

### 2.2 Purpose







SonoCare is intended for use in pain relief.


### 2.3 Composition



SonoCare is consisted of below parts. Please check whether the below parts are included in the package or there any damages of main body or accessories.

No.	Item name	Quantity	Frequency	Remark
①	sonoCare main body	1EA		Model name : NP-300
②	Sy Probe	1EA	1Mhz / 3 MHz	OPTION
③	Ly Probe	1EA	1Mhz / 3 MHz	OPTION
④	Sb Probe	1EA	3Mhz / 10 MHz	OPTION
⑤	Lb Probe	1EA	3Mhz / 10 MHz	OPTION
⑥	Power cable	1EA		

Table 2-1. Basic Composition

①	
②	
③	
④	
⑤	
⑦	

 <b>Warning</b>	<p>If operator uses another accessory besides listing of this device or unapproved accessory for substitution of its original accessory, electromagnetic compatibility(EMC) would be emitted or its resistance for EMC would be decreased.</p>
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 <b>Warning</b>	<p>If accessory, which is not compatible equivalently with safety requirements, is used, it may downgrade the safety level. Please review if accessories around patient and its safety certificates are compatible with [IEC 60601-1] or [IEC 60601-1-2]. It may harm to people or damage the product.</p>
 <b>Warning</b>	<p>If operator uses other accessories beside designated accessories, it may downgrade the device's safety and performance. Please use only designated accessories.</p>

## 2.4 Features and functions.

### (1) NP-300 Main Body

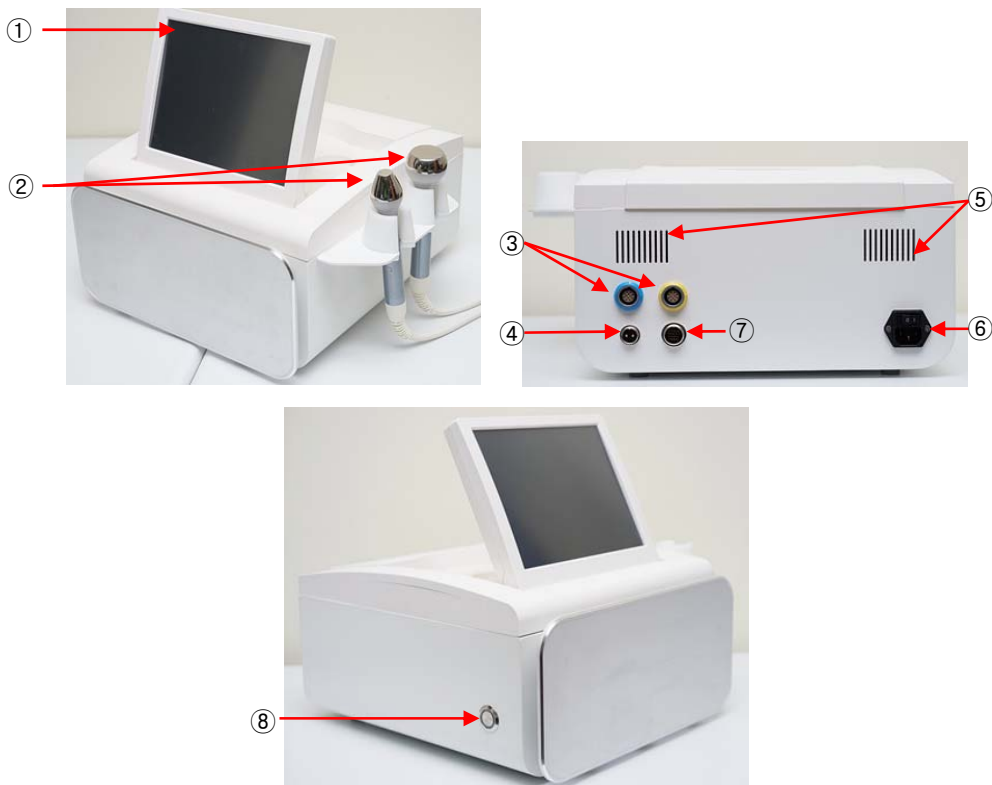


Figure 2-1. NP-300 Main body

No.	Item name	Description
①	LCD monitor	Display, Tilt Function (0 to 90° angle)

②	Probe	Ultrasound output
③	Probe connection port	To connect the probe(color fixed) Yellow : for Sy probe and Ly probe Blue : for Sb probe and Lb probe
④	Foot Sw connection port	To connect the foot Sw
⑤	Ventilation area	To cool the main body
⑥	Power input port	To connect the power cable
⑦	Upgrade port	To upgrade the product
⑧	Power button	On/OFF button

(2) Sy, Sb Probe

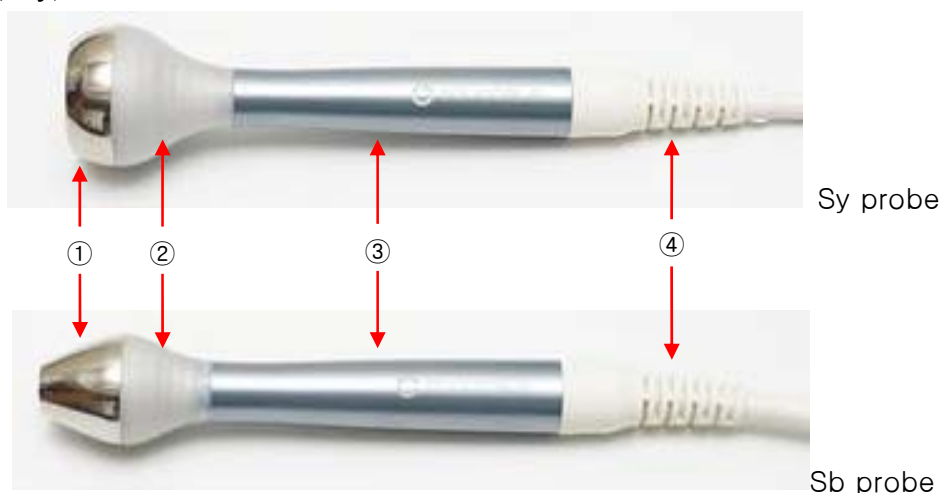


Figure 2-2. Probe

No.	Item name	Description
①	Probe radial part	Part which emit the ultrasound energy
②	LED	Display of probe operation status
③	Handle	Handle of probe
④	Probe cable	To connect the probe to main body

(3) Ly, Lb Probe

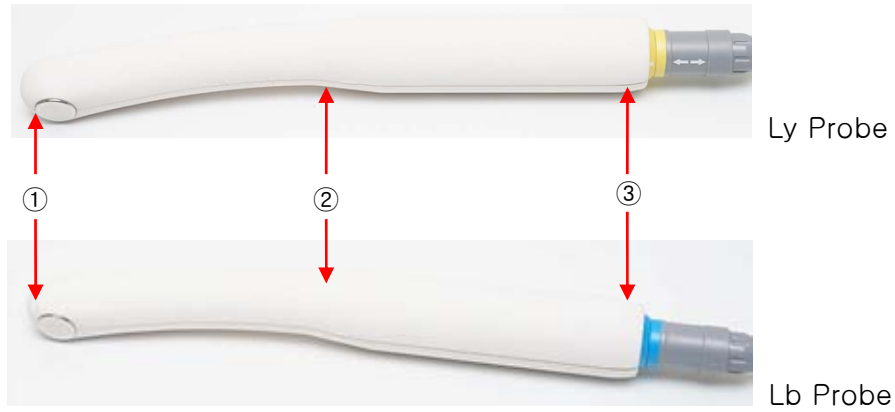


Figure 2-3. Probe

No.	Item name	Description
①	Probe radial part	Part which emit the ultrasound energy
②	Handle	Handle of probe
③	Probe cable	To connect the probe to main body



## *Chapter 3*

# *Installation and Connection*



Please note following articles when sonoCare is installed


- It is recommended that this device is installed at an airy or ventilated space because it has slight heat during operating.
- Be sure to use liner or grounded power supply to prevent against malfunctions by electrical effects.
- Do not try to get the power cord wet.
- Do not connect the power cord to main body if it is damaged.
- Do not share an outlet with other devices. There is potential for the fire by abnormal generated heat if several devices share an outlet.
- If possible, please avoid direct sunlight.
- Be careful not to damage by shock.
- Install the device at the flat location.
- Install the device away from dust or inflammables.

### 3.1 Transport and Fix

Please follow the below process when sonoCare is moving to another place.

- Before moving the device, turn off the device first. And remove the power cable.
- Fix the probe for fixing the probe to avoid the dropping during the moving.
- After moving to another place, connect the power cable.

 <b>Warning</b>	During the output of sonoCare, moving or removing of accessories is prohibited.
	If device should be moved by elevator or through slope, please use the packing box.

Warning	
 Warning	Do not push probe socket with heavy material from the top. It may cause the damage of probe socket.


## 3.2 Power and cable connection

### (1) Power cable connection

Connect the power cord to power supply and sonoCare's power cord socket which is located at the bottom of back side. And then activate the device pressing power button which is located at the side..



Figure 3-1. power cord connection

 Warning	Check the fixed condition of power cord when the power cord is connected to the power cord socket. Check the connection of power cord and be careful not to loosen. Any problem or damages on the device can be caused by disconnection of power during operation.
--	--

### (2) Probe connection

Connect the probe cable to cable port in the main body and check whether the cable is connected firmly (check the color; yellow to yellow, blue to blue)



Figure 3-2. probe connection



Warning

Manufacturer do not has acceptance and no responsibility for the any trouble or damages caused by consumable items beside original connector or cable which was supplied by manufacture.

After the connection, put the hand pieces properly on the hand piece socket.



<right example>

<wrong example I>

<wrong example II>

Figure 3-3. putting handpieces.

Before the following before the tuning on sonoCare.

- It is recommended that operator turns on the power after installing at least one handpiece.
- Check if the power cord is connected properly. And do not touch the device with wet hand to avoid the electric shock.

Check the followings after turning on the power of sonoCare.

- Press ON/OFF button on the side and check if the power is supplied and the device is operated with watching the screen.
- Check if the all images is being shown on the screen.
- At first, do a test shot for right probe identification and ultrasound energy output normally.

### 3.3 Exchange the probe

SonoCare has 4 different kinds of probes. after user decide the probe for using, connect the probe according to above procedure (3.2.(2)).

# Chapter 4

## Way of Use

### 4.1 starting the system.

- Check the connection of power cable at the bottom behind of the product, then push the power button for the ON status in the side of product.



Figure 4-1. ON/OFF sw

- Check if all the contents are available on screen. The main display of the product has tilt function from 0° to 90° degree as below.



Figure 4-2. Display tilting function.

Note: Operator put ultrasound gels behind of LCD monitor during operating

## 4.2 Display composition and operating method

SonoCare provides touch screen system which can simply control each menu on the screen. Figure 4-3 shows the basic setting value.



Figure 4-3. basic setting of Main display

No.	Function	Description
①	Main menu	Display main menu
②	Setting	Setting
③	Trouble shoot	Solution for trouble shooting
④	Guide line	Product operation advice
⑤	Information	Product information
⑥	Mode	Display the selection and operation time
⑦	Select	Mode, output, time selection
⑧	Ultrasound output control	Display of ultrasound output
⑨	Timer	Operation time selection and display
⑩	1/3MHz display	Display of Sy, Ly probe status
⑪	3/10MHz display	Display of Sb, Lb probe status
⑫	Enter	Check the input mode and start the treatment After starting the treatment, icon will be chaging and flickering(yellow, white)
⑬	Back	Back to before display status

- ① Main Menu: in this menu, user can check the Mode setting, output environment, model selection, ultrasound output, operation probe, and treatment time. If probe is not connected, following message will be pop up and there is some function restriction

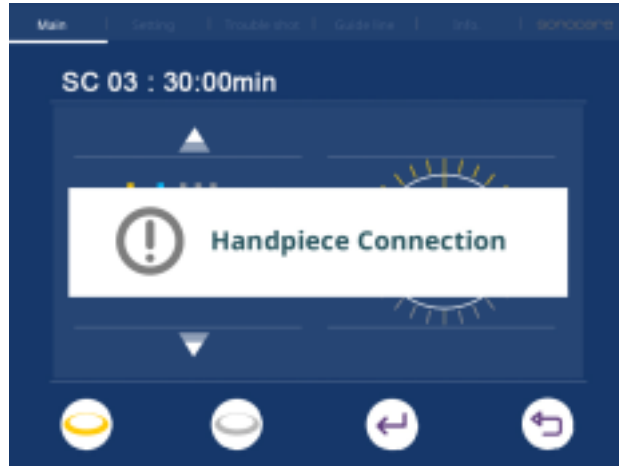


Figure 4-4. Pop up display when probe is not connected.

- ② Setting: using language is displayed.
- ③ Trouble shoot: if trouble is occurred, trouble shoot gives solution of trouble shooting.



Figure 4-5. trouble shoot display

- ④ Guide line: it shows general operation method and cautions of sonoCare.
- ⑤ Information: it shows product information like serial number and software version.



Figure 4-5. information display

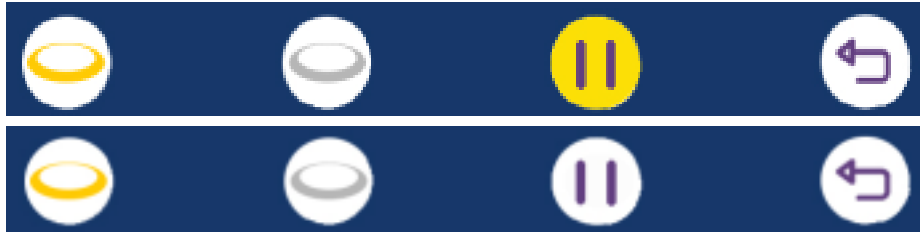
- ⑥ Mode: it shows the current mode and change the mode here. And operation time is displayed here.
- ⑦ Select: if following buttons (mode⑥, ultrasound output⑧, timer⑨) are selected and push the select button, value of display in ⑥, ⑧, ⑨ will be changed. Mode can select 4 types of mode saved
- ⑧ Ultrasound output: it shows the ultrasound output of selected mode. Unit is Watt.

name	value	Remark
Ultrasound output	0.1 ~ 5 W	
Treatment time	1 ~ 30 min.	Control by minute

- ⑨ Timer: it display remaining time.
  - Maximum treatment time should be equal or less than 30 minutes.
- ⑩ 1/3MHz display: in use of Sy, Ly probe, display will be on
- ⑪ 3/10MHz display: in use of Sb, Lb probe, display will be on.
- ⑫ Enter: select the mode and it can let programmed probe ready to operate.
  - After impedance feedback, ultrasound output can be emitted only when treatment head is contacted in the skin.



- During the ultrasound energy radiation, icon of enter will flicker white and yellow and if push the enter button, output will be restricted.



- ⑬ Back: during the use of sonoCare, this button can be used in changing mode or stopping the treatment. This button will move the before mode of current status.

### 4.3 NP-300 Treatment and Operation

- Sonocare should be used by allowed person
- Select the treatment mode.
- If treatment mode is selected and entered, probe icon will be flickered. LED of the Sy or Sb probe will be flickered. (not Ly, Lb)
- Spread ultrasound gel on selected probe head for good contact.
- After making the good contact to the treatment area, push the enter button for start.
- For the spreading the ultrasound gel, its thickness will be under 1mm and evenly. Please caution of good contact between skin and treatment head. Unless, it can be the cause of burn.



< gel spreading >



<probe contact >

Figure 4-6. probe contact method

- After gel spreading and contacting of probe to skin, pushing the foot sw button will start the treatment. LED of probe will light on from flickering.
- According to treatment mode, programmed probe will light on.

#### 4.4 Treatment Mode and function

item	Description																									
Password	For the starting the system, input the password setup. If use the wrong password, system will not be able to start.																									
Mode	<table border="1"> <thead> <tr> <th>Mode name</th> <th>probe</th> <th>Frequency</th> <th>output</th> <th>Treatment time</th> </tr> </thead> <tbody> <tr> <td>SC01</td> <td>Sy, Ly Probe</td> <td>1Mhz</td> <td>0.3 ~ 5W (6 step control)</td> <td>Maximum 30 minutes</td> </tr> <tr> <td>SC02</td> <td>Sy, Ly Probe</td> <td>3Mhz</td> <td>0.2 ~ 3W (6 step control)</td> <td>Maximum 30 minutes</td> </tr> <tr> <td>SC03</td> <td>Sb, Lb Probe</td> <td>3Mhz</td> <td>1 ~ 3.5W (6 step control)</td> <td>Maximum 30 minutes</td> </tr> <tr> <td>SC04</td> <td>Sb, Lb probe</td> <td>10Mhz</td> <td>0.1 ~ 0.6W (6 step control)</td> <td>Maximum 30 minutes</td> </tr> </tbody> </table>	Mode name	probe	Frequency	output	Treatment time	SC01	Sy, Ly Probe	1Mhz	0.3 ~ 5W (6 step control)	Maximum 30 minutes	SC02	Sy, Ly Probe	3Mhz	0.2 ~ 3W (6 step control)	Maximum 30 minutes	SC03	Sb, Lb Probe	3Mhz	1 ~ 3.5W (6 step control)	Maximum 30 minutes	SC04	Sb, Lb probe	10Mhz	0.1 ~ 0.6W (6 step control)	Maximum 30 minutes
Mode name	probe	Frequency	output	Treatment time																						
SC01	Sy, Ly Probe	1Mhz	0.3 ~ 5W (6 step control)	Maximum 30 minutes																						
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SC03	Sb, Lb Probe	3Mhz	1 ~ 3.5W (6 step control)	Maximum 30 minutes																						
SC04	Sb, Lb probe	10Mhz	0.1 ~ 0.6W (6 step control)	Maximum 30 minutes																						
Standby	Main Display for use and device output environment.																									
Set Frequency/Time	Set up the frequency and time for selected mode.																									
Output	After the set up the frequency and treatment time, ultrasound energy will be output with pushing the foot sw.																									
Treatment Head	After the impedance feedback, MCU control the output.																									

Contact	Only good contact can output the energy.
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## 4.5 System Off

Please follow instruction below to off the system safely.

- Off the power button of sonoCare.
- Disconnect the power cable.




# Chapter 5

## Cleaning and Maintenance

### 5.1 Maintenance and storage

#### (1) Maintenance

- Immediately remove all ultrasound gels of outside the device after treatment.
- Do not break the hand piece cable.
- It is recommended that the device is stored in a dry place.
- Store the device without power cord by using cover as like vinyl when the device is stored in a long time.
- If the device has not been used for a long time, check firstly whether the device is working in safety.
- Avoid the environment that temperature can be increased by direct sunlight.
- Do not drop the hand piece to the floor.
- Regular inspection for device and accessories is recommended.

 <b>Caution</b>	After clean the device, check the main body and accessories seriously. If the device is old or damaged, do not use the device.
 <b>Warning</b>	Remove the power of device before cleaning and maintenance. Otherwise, it may harm to people or damage the product.
 <b>Warning</b>	Some chemical cleaning products may have conductivity and make some scraps. The products remain with conductivity dusts or scraps. Do not use the products for electrical part and do not use spray cleaning products for any surfaces.



#### (2) Storage

- Separate a power cord from the outlet.
- Do not store the device avoiding a wet place.
- Be careful with the bad influence like air containing atmospheric pressure, temperature, humidity, ventilation, dust and salty.
- Be careful with incline, vibration and shock.
- Do not store the device in storage place for chemicals and place where generates gas.
- Regular inspection for device and accessories is recommended

- If the device has not been used over a month, check whether the device works in safety.
- Store with consideration of sanitation, sterilization before reuse of contact point with skin is recommended.
- Store at 0°C to +60°C(main body) of temperature and 10 to 90% RH of humidity.
- This device shall be used only by doctor or nurse or designated person.



### 5.2 Cleaning and sterilization

- Ultrasound gels on cartridge shall be removed immediately after every treatments. It is recommended that clean the cartridge by using soft tissue or gauze and a cotton pad soaked in alcohol.
- Use a soft cotton to clean LCD touch screen.
- Use a soft cotton, which has a suitable moisture without greasy, to clean product surface.

 <b>Warning</b>	Turn off sonoCare’s power and separate the power cord before cleaning. Also all accessories is separated. Do not soak the device in water and do not trickle any liquid down to the case.
 <b>Warning</b>	Do not use alcohol to clean the front side of device. Alcohol may cause a scratch or damage of acrylic.

### 5.3 Regular inspection



- It is recommended that sonoCare is inspected regularly once a year like as other medical devices. Please refer to [Service manual] which manufacturer provides for inspection list.

 <b>Warning</b>	For a symptom of corrosion or damage, check regularly gas or oxygen element. Otherwise, it may harm to people or damage the product.
 <b>Warning</b>	Only qualified service person or trained person trained/authorized by manufacturer can repair the device due to its electrical shock.

# Chapter 6

## Trouble shooting

### 6.1 Corrective action for emergency

 <b>Warning</b>	Nobody beside authorized person can disassemble the device. Manufacturer has no responsibility for the broken device or damaged person if the device is disassembled discretionally.
 <b>Warning</b>	In case of unintended malfunction or showing a sign, immediately stop operating and follow to trouble shooting procedures below.

If following troubles happen, please check the trouble shooting below before contact to manufacturer.

1. Smell of burning or sound of explosion in product
  - Separate power cord from outlet.
  - Immediately call manufacturer.
2. When connection of probe is not recognized
  - It happens when the probe is not connected well.
  - Restart the device after substitute the probe.
  - If it doesn't work with substituted probe, contact us immediately.
3. Damage of full touch screen LCD
  - Immediately stop the device usage and treatment.
  - Turn off the power and separate the power cord from outlet..
  - Immediately call manufacturer.
4. Burn damage on the skin
  - Immediately have a cooling massage on the treated area. Prescribe steroid and spread an ointment for acceleration of skin rejuvenation depending on the situation.

### 6.2 Corrective action for trouble symptom

1. Power supply is not working.
  - Check whether the outlet or socket of wall is working and check whether the plug is inserted properly.
  - Check whether the power cord is connected well into main body.
  - If the device is still not working though check all lists above, please call manufacturer.
  
2. No thermal energy is delivered to skin during treatment.
  - Substitute the cartridge and retest.
  - It might be a temporary trouble of SMPS. So turn off and then turn on the device 2 to 3 minutes later.
  - If there is still no delivery of thermal energy, please call manufacturer.
  
3. The device is not turned off.
  - Check the power cord and retest the working of ON/Off button.
  - If the situation is repeated though check the working of ON/OGG button two to three times, please call manufacturer.

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# Chapter 7

## Product specification

### 7.1 Mechanical specification

#### NP-300 Mainbody

Dimension – (W) 422 mm x (D) 396.5 mm x (H) 378.8 mm

Weight – approx 7.5kg

#### Sy probe

Dimension – (W) 226mm x (H) 48 mm

Weight – approx. 200g

#### Sb Probe

Dimension – (W) 226mm x (H) 36 mm

Weight – approx.140g

#### Ly, Lb probe(same size)

Dimension – (W) 281 mm x (D) 35 mm x (H) 47.7 mm

Weight – approx. 100g

### 7.2 Electrical specification

Common standard specification for electrical and mechanical safety of medical device.

Common standard specification for electromagnetic wave of medical device.

Applying EN 60601-1, EN 60601-1-2 EN60601-2-62 specification.

Protection degree and type for electrical shock : Class I , Type B applied part ,

Classification by operation mode: Continuous operation.

#### Power supply

AC 100~240V, 50/60Hz, 100VA

#### Environment



Temperature:	10°C ~30°C (Working), 0 °C ~60°C (Storage)
Relative humidity:	30 %~75% 이하 (Working), 10 % ~ 90 % (Storage)
Atmospheric pressure:	700hPa – 1060hPa

## 7.3 Product specifications

### Technical Specification

Energy type	Ultrasound
Energy fluence	~ 3W/cm <sup>2</sup> (±20%)
Timer	~30 min.
Treatment temperature	40.0 °C ~ 50.0 °C

### Display

10.4 inch Color TFT-LCD, Resistive Touch Screen

### Safety

Current fuse	It prevents the circuits against an overcurrent.
Control of high voltage	Any voltages are not supplied to the circuit while the device is not working.
Control of button	Ultrasound is generated only when operation button is pressed.

## Chapter 8

### Product warranty

Product name	Ultrasound stimulator	
Model name	NP-300	
Product license number <sup>1)</sup>		
Serial number		
Warranty	Main body : 1 years after billing date(except accessories)	
Purchase date		
Client	Hospital :	
	Address :	
	Name :	
	Tel :	
Seller		
Manufacturer	NEWPONG CO., LTD.	

- ※ Thank you for your purchasing of NEWPONG's product.
- ※ This device is passed the restrict quality control and inspection process.
- ※ Standard compensation for repair, exchange and refund is compliant with [Consumer Injury and Compensation rule] of Ministry of Strategy and Finance.
- ※ Service center will repair in free of charge during warranty period if the device has a trouble under normal conditions during warranty period.
- ※ Please inform manufacturer or seller the model name, serial number, purchasing date and trouble matter if the device has a trouble under normal conditions during warranty period

## Manufacturer contact information

Manufacturer	Address	#1004 Medical Device Complex Center, 200, Gieopdosi-ro, Jjeong-myeon, Wonju-si, Gangwon-do 26354, Korea
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NEWPONG Co., Ltd

Product name:  sonocare

Model name : NP-300

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