

HIF3-E

HIFU Lifting System

VER:3.0

USER MANUAL



Warning

Dear user:

Thanks for using our company's products, in order to fully make use of the products, we sincerely suggests follow:

- ◆◆ Please read the instruction in detail and keep it well for further reading and consulting.
- ◆◆ Please follow the instruction to fit and operate the machine correctly.
- ◆◆ Please do not remove and change any accessories of the machine.
- ◆◆ It forbids others to open and remove the mainframe except the authorized people in the company.
- ◆◆ It forbids others to change and maintain the machine except the professional people.
- ◆◆ Please contact us if there is any trouble during operation.

This product does not belong to medical, please don't use for disease treatment!

Parts Introduction



- 1.Touchscreen
- 2.Ultrasonic Transducer handle jack
- 3.General power switch
- 4.Power supply line jack

Accessories



DS-4.5mm
(Standard configuration)



DS-3.0mm
(Standard configuration)



DS-1.5mm
(Optional)

Transmitter



Ultrasonic Transducer handle

Any part of instrument made of PMMA material (for example: accessories shelf, panel, transparent handles, etc.). Do not use alcohol or corrosive solvent to wipe clean.

General Introduction

HIFU lifting system uses a new advanced techniques of High-intensity focused ultrasound for the design of this instrument. HIFU make it possible that non surgical type cosmetic wrinkle removal instead of the traditional facelifting operation. The device will release a highly concentrated focus of ultrasonic energy, and deliver into the deep skin and cause thermal coagulation to SMAS (Superficial Muscular Aponeurotic System), High heat is condensed in the appropriate location, to stimulate the skin deep dermal tissue, produce more collagen. It can provide the skin tightening and rejuvenation happens gradually with the time so that the skin becomes more compact.

Advantage

1. Using a non-invasive technique to replace the traditional operation to pull the skin.
2. Tighten the loose skin, improve sagging and other aging phenomenon.
3. Using the special transmitter penetrating conduct the high intensity focused ultrasound to SMAS layer from the surface of skin.
4. Generate Multiple 65℃ to 70℃ or above high thermal energy in the skin layer specified target in the moment, come into the “curing” region. The focus of cells were solidified, and ablation, the SMAS was ascend rapidly and achieve the effect of cosmetic wrinkle removal.
5. Non-invasive, no postoperative rest time, HIFU transmitter anti-aging don't need injection, no surgery, no trace of wrinkles removal, skin rejuvenation.
6. Be suitable for any aged people, both female and male.
7. Equipped with a variety of transmitters for different skin levels. This transmitter can conduct the High intensity focused ultrasound to each layer of the skin.
8. Proprietary high-speed transmission technology can be obtained 0.1 to 0.2S.
9. Up to 5000 to 10000 lines layered high precision transmitter that it is three times as the similar instrument, greatly improving the cost effectiveness.
10. The sole research stability 2 to 10MHZ broadband output technology can work in with a layered skin treatment technology well.

Basal Operation

1.Put accessories well and connect them to the host.

(1)Insert the plug of ultrasonic transducer handle into [2] output jack.

(2)Choose appropriate transmitter, and insert it into the slot of handle along the A direction. If you need to replace the transmitter, pull out the handle unlock block to B direction, and take it out, replaced it.

2.Insert the plug of Power supply line into [4] socket, turn on Power switch [3]. Pay attention to turn on/off the system must interval 30 seconds each time to ensure the normal use of the system.

3.Put into the system default password “000000” or insert IC card correctly, the system enter interface as (Fig 1) shows.

4.In the interface as (Fig 1) shows:

(1) Location displaying “DS-3.0mm” stands for the model of transmitter. After replace it, the system will recognize the model automatically.

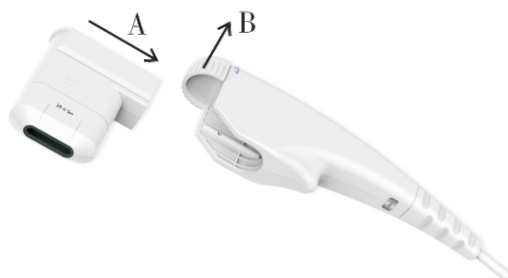
(2)“Coordinate display region” horizontal axis data stands for moving track when transmitter work. Vertical axis data stands for the depth of skin when transmitter works.

(3)“Cartridge” the first data stands for the used transmitted times of transmitter. The second data stands for the marking times of it.

(4)“Current line counter” stands for the transmitted times of the current treatment course. Click on “Reset” to clear the times of current line counter.

(5)“Work time” stands for the total working time this course.

(6)This system operation parts conclude: “all area”, “cheek” and “neck”. Click on “ALL AREA” to enter interface as (Fig 1) shows. Click on “CHEEK” to enter interface as (Fig 2) shows. Click on “NECK” to enter interface as (Fig 3) shows. During treatment, beautician could click on “Cheek” or “Neck” icon, and dividing the areas according to the hips on the sketches. and then to carry out the sub block nursing operation. The numbers on parts of sketches represent current



(Fig 1)



(Fig 2)

transmitted times of transmitter on these parts.
Click on “Reset” can clear each parts data. Warm
Tips: The red areas on sketch map is **PROHIBIT**
operation areas.

(7)Set power. The transmitter’s default output power is 0.2J, the range is 0.2J(weak) to 2.0J(strong). Click on “<” and “>” to adjust.

(8)Set focal length. “Length” represents the total length of the thermal condensed node and node when transmitter works. Click on “+” and “-” to set. DS-3.0mm and DS-4.5mm maximum move length range are 5mm to 25mm.

(9)Set spacing. “Spacing” represents the distance between the thermal condensed node and node when transmitter works. The system default spacing is 1.5mm. Click on “+” and “-” to set, the range is 1.0 to 10mm. The maximum of spacing is depend on the length of you set.

5.Beautician click on “▶” key, the system is in standby state shooting. The indicator on ultrasonic transducer handle light up.

6. As (Fig 4) shows, Click any operating area, and press the transmitting button on the Ultrasonic transducer handle, the transmitter transmits one line thermal condensed nodes, the number of operating times of this area will be accumulated, as (Fig 5) shows.

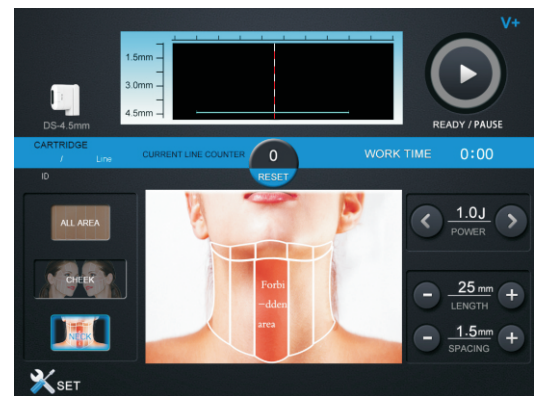
7.Click on “Reset” to delete these numbers.

8.The length can not adjust during pre-start state; Power and spacing can regulate.

9.Click on “||”, the system pause. Press the transmitting button on the Ultrasonic transducer handle, the system don’t work.

10.Click on “SET” to select language, set time and date, and click on “Exit” to return interface as (Fig 1) shows.

Attention: “Advanced setting” is only for engineering debugging, not for user.



(Fig 3)



(Fig 4)



(Fig 5)

Layered Transducer

DS-4.5mm(Standard configuration)

For the transfer of frequency 4MHz high intensity focused ultrasonic to the skin and subcutaneous tissue, ultrasonic penetrating the dermis depth of 4.5mm, direct access to the SMAS layer of subcutaneous tissue, forming “coagulation” area, suit for cheeks.

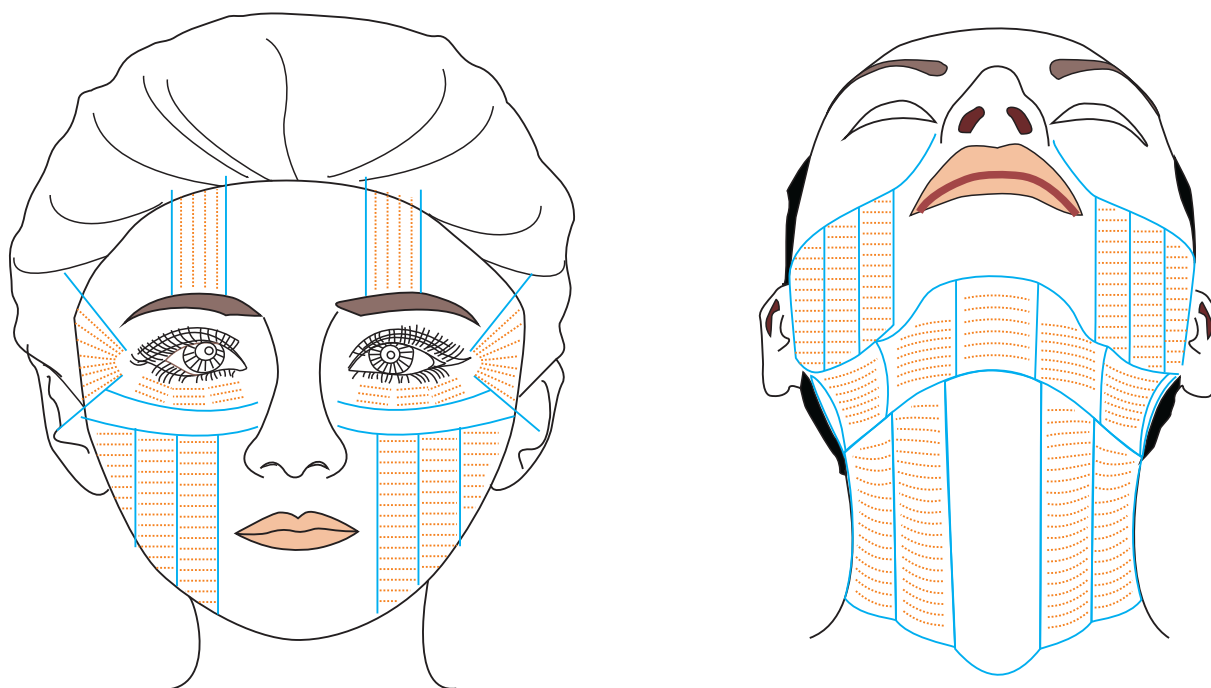
DS-3.0mm(Standard configuration)

For the transfer of frequency 8MHz high intensity focused ultrasonic to dermis skin tissue, ultrasonic penetrating the dermis depth of 3.0mm, specific responsibility to activate collagen of the dermis skin, effectively consolidate the outline lifting effect, also can improve coarse pores and reducing wrinkles.

DS-1.5mm(Optional)

For the transfer of frequency 10MHz high intensity focused ultrasonic to the tissue of the epidermis, ultrasonic penetrating the depth of 1.5mm, specific responsibility to activate the thin epidermis tissue.

Operating Area Instruction



(Fig 6)

**There are dots area for the operational area,
the rest is prohibited operating area.**

Operation of Lifting

⚠ To fill in a “CUSTOMER INQUIRY TABLE” and ask the customer signature before do treatment.

- 1.Clean the skin.
- 2.Take a photo before treatment, and compare the effect after treatment.
- 3.Use cosmetic pencil drawing the nursing area on face or neck according to the hips as (Fig 6) shows.
- 4.Select appropriated transmitter according to nursing locations. Refer to (Fig 7) please.
- 5.Set appropriated power[The max range is 0.2J(weak)~2.0J(strong)], focal length[The max range is 5~25mm] and spacing [The max range is 1.0~10mm].

⚠ 6.Applying plenty gel as couplant between transmitter and skin on nursing parts.

- 7.Click on “▶” on operating interface, the system is in standby state shooting. The transmitter must be perpendicular to the skin when beaucain operate, press the transmitting button on the Ultrasonic transducer handle(or step on the service brake once), Forming a line thermal condensed node in the specified depth under skin when the transmitting button is pressed each time. Output shots of each part can refer to <Operation Guideline of HIFU series> as (Fig 7) shows. During the treatment, it must be noted that there is sufficient gel between the transmitter and skin. Transmit line-by-line according to the drawing area until move to the specified position complete the whole treatment.

⚠ 8.During the treatment, the output power must be adjusted in accordance with different locations and under customer’s tolerance.

⚠ 9.Attention: DO NOT operation on the prohibited areas.

- 10.Put on face replenishment mask after treatment.

Attention icon “⚠” is special notice items.

You must clean used transmitter after treatment.

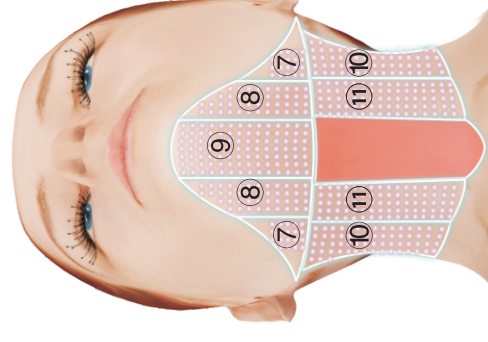
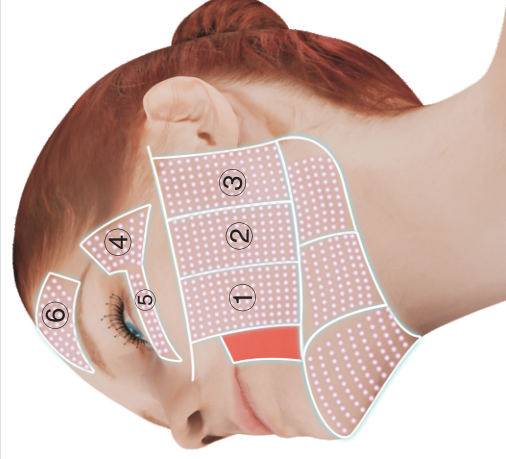
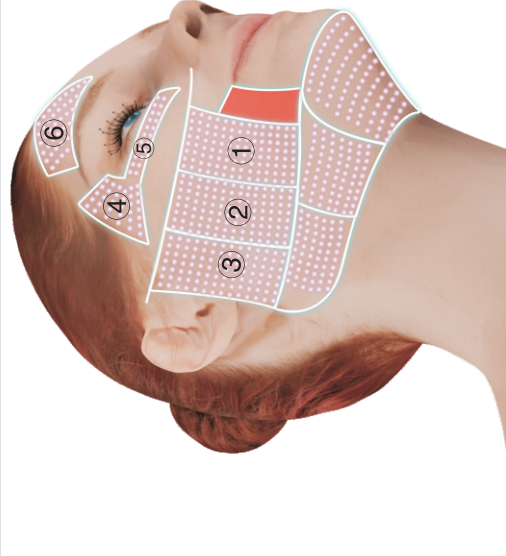
Cleaning Method:

Using clear water to clean the black conducting membrane with cotton swabs, tissue or other soft material gently, from the middle part to both sides. DO NOT too hard to avoid damage it. In order to avoid the black conducting membrane falling off , DO NOT clean it with alcohol products or disinfectants. DO NOT tear up the black conducting membrane.



Operation Guideline of HIFU series

PART	NO	CARTRIDGE		POWER		LENGTH	SPACING	LEFT SHOT		RIGHT SHOT	
CHEEK		First	Second	DS-4.5mm	DS-3.0mm			DS-4.5mm	DS-3.0mm	DS-4.5mm	DS-3.0mm
	①					25mm	1.5mm	30~40	30~40	30~40	30~40
	②	DS-4.5mm	DS-3.0mm	0.7J~1.8J		25mm	1.5mm	30~40	30~40	30~40	30~40
	③					25mm	1.5mm	30~40	30~40	30~40	30~40
LATERAL EYE	④	DS-3.0mm		0.7J~1.3J		25mm	1.5mm	10~15		10~15	
LOWER EYELID	⑤	DS-3.0mm		0.7J~1.2J		25mm	1.5mm	9~12		9~12	
FOREHEAD	⑥	DS-3.0mm		0.5J~1.0J		25mm	1.5mm	10~15		10~15	
THE LOWER JAW	⑦							~10		~10	
	⑧							~15		~15	
	⑨			0.7J~1.5J		25mm	1.5mm	~20			
NECK	⑩							~30		~30	
	⑪	DS-3.0mm		0.8J~1.5J		25mm	1.5mm	~30		~30	



(Fig 7)

Cautions

- 1.It is not recommended for use transparent PMMA plates or other hard objects to test whether there is energy output from transmitter. Because as long as transmit once on PMMA plate,the internal precision components may be damaged by the reflection of the ultrasonic wave.
- 2.If the client needs to confirm whether there is energy output from transmitter,it is recommended smear gel on black conducting membrane,require the thickness of gel about 1cm. Start the system,the ultrasonic transduce handle tilted, the black conducting membrane towards to ground, press the transmitting button on the ultrasonic transduce handle and observe the gel state. If there are not dots trace in the gel, then the transmitter without energy output. If there are dots trace or the gel overfly, then the transmitter is good.

Cautions after Facelifting

- 1.Strengthen the moisturizing and sunscreen.
- 2.**DO NOT** take any medicine and drink alcohol before and after 24 hours. Follow the nursing advice.
- 3.**DO NOT** soak hot springs and have a steam bath.
- 4.It is normal that the skin feel dry after treatment. Pay attention to water replenishing. Suggestions for put replenishment mask at least three times a week

Adapt to The Crowd

- 1.people who have facial skin sagging, wrinkles, skin aging and rough, reshape the face curve, Effectively improve the eye region and neck tissue sag, ptosis.
- 2.Tightening the loose skin, removing real and false wrinkles, repair stretch marks.
- 3.Acnes.
- 4.Systemic anti-aging(neck and back tightening and shaping, waist and abdomen shaping and modifying, shape the buttocks and legs)
- 5.Suitable for a variety of wrinkles and deep wrinkles, forehead wrinkles, eye wrinkles, purify end, nasolabial fold, lip wrinkles, frown lines etc..

Not Meet the Crowd

People who implant a pacemaker or other similar electronic apparatus and implant other beauty products which it is dissolved by temperature.

Touch Screen Calibration

1. Before turn on the system, please click on the screen, don't move the finger, then turn on the Power Switch.
2. The prompts "Don't touch me" is on the screen, "After releasing the key, we enter into the calibration procedure, Operating under the prompts of the screen". Then release your finger now.
3. Operating under the prompts:
 - (1) Press the cross dot in left-top "+".
 - (2) Press the cross dot in right-top "+".
 - (3) Press the cross dot in right-bottom "+".
 - (4) Click on the point (left top).
 - (5) Click on the point (right bottom).
4. Calibration screen is finished, the system enter "input password" interface.
5. Don't input the password, turn off the Power switch, reboot the system.

Technical Parameters

Input Voltage: AC 100V-230V□ 50Hz-60Hz□

Power: ≤160VA

Output Power: 0.2(weak) to 2.0J(strong)(0.1J/STEP)

Spacing: 1.0 to 10mm(0.5mm/STEP)

Focal Length: 5.0 to 25mm(1.0mm/STEP)

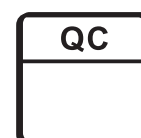
Transmitter: DS-4.5DmmX1PC(Standard configuration)

DS-3.0mmX1PC(Standard configuration)

Ultrasonic transducer handle: 1PC

Packing List

1. Host	1SET	<input type="checkbox"/>
2. Ultrasonic transducer handle	1PC	<input type="checkbox"/>
3. DS-4.5Dmm(Standard configuration)	1PC	<input type="checkbox"/>
4. DS-3.0mm(Standard configuration)	1PC	<input type="checkbox"/>
5. Power supply line	1PC	<input type="checkbox"/>
6. User manual	1COPY	<input type="checkbox"/>
7. Crossed ruler	2PCS	<input type="checkbox"/>



Simple Troubleshooting

When the device appears fault during the operation, the user could diagnose and rule out some simple questions through the following guides. If still not resolved, please call our Customer Service Department for consulting as soon as possible.

1.Nothing happens when turning on the general power switch.

(1)Ensure that the AC power is normal or not.

(2)Ensure that the power supply line is broken or not.

(3)Ensure that the fuse work or not. The spare fuse position as picture shows.



2.The touch screen failure.

(1)Touch screen invalid: May be the touch screen is pressed, please gently press the four corners and the center of the screen, then turn off, wait for one minute, then restarts it.

(2)Positioning error of touch screen: Turn on the instrument, enter interface of calibration. If problem still exists, please call Customer Service Department.

(3)If the touch screen is broken, please call the Customer Service Department.

3.Touch screen display error:

Please turn the power off, wait one minute after a reboot, If the problem still exists, please call the Customer Service Department.

4.After starting, the screen displayed:

(1)Connection failure between display control board & function control board.

Please turn off the power, waiting for five seconds, and turn on the power switch. If it doesn't work, May caused by the loose connection between display control board and function control board. Please call the Customer Service Department and operating under their guidance.

(2)OxE6: Handle no plug in!

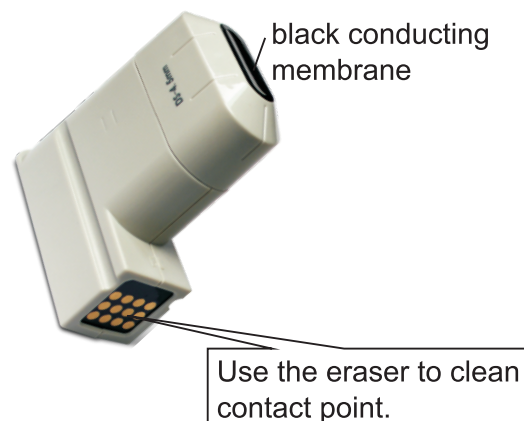
Check the plug of Ultrasonic Transducer handle if was damaged. if no, please insert it again.

(3)OxE2: The transmitter out of time!

At the prompt, the marking times of transducer is zero, please replace transducer.

(4)If prompted OxE1: No transmitter! OxE3: The transmitter without initialization! OxE4: Error in communication to the transmitter! OxE5: Error for motor!

Use the eraser to clean contact point. As shown in figure:








5.OxE7:Main power error.

Insert the transducer into the handle again, and restart the system, if the fault still exists, you need to replace the function PCB board.

6.When the black conducting membrane on transducer(transmitter) is folded, glue failure and other phenomena, DO NOT tear it. Please replace the transducer.

Symbols and Meanings

Warning Symbol	Meaning
 Danger	If used incorrectly will bring the risk of death or serious injury!
 Warning	If used incorrectly will cause possibility ill of death or serious injury!
 Attention	If used incorrectly will cause personnel injury or damage to the goods!
 Danger	Device exists high pressure risk of high voltage output terminals!
 Warning	If used incorrectly will cause personnel injury!

*Things damage refers to housing, property, livestock and pet damage.

Contraindications

1.The following symptoms were forbidden to use
 (1)Patients who used by Heart rate regulator, cardiac pacemaker, ECS;
 (2)The use of artificial bone;
 (3)Patients with silicosis;
 (4)Drunk or high fever patients;
 (5)Patients with higher sensitivity mental disease and epilepsy patients
 (6)Patients with no independent expression consciousness and can not take care of themselves.
 (7)Patients with metal materials in body (including metal teeth), pregnant women, cachexia, malignant tumor.
 (8)Patients with renal failure.
 (9)Patients with severe infection



Danger

2.The following please use under the guidance of professionals

(1)Women during menstruation;
 (2)Children;
 (3)Hemorrhagic disease or trauma, inflammation, skin disease, skin infection;
 (4)Patients with feeling numb, no response to cold and heat;
 (5)The immune system has defects, scar formation history, physical disease;
 (6)The people who has taken face-lifting or her body has artificial thing.



Warning

Attention

1. First check the host, accessories, power supply line is broken or not before use.
2. Start system, in addition to television, refrigerator, Do not turn on electrical power device at same time.
3. Before use, please take the hearing aid, electronic wristwatch, magnetic card, mobile phone and other things off first. Pay attention to the child's care to avoid touching.
4. During the using process, drink more water based on your physical.
5. In case of happen special circumstances or accident, please immediately stop using and consult professionals.
6. Patients with following medical electrical device cannot use this system at the same time.
 - Patients who implantable cardiac pacemaker, heart rate regulator, other electronic devices.
 - Artificial heart lung device and other device to sustain life.
 - Patients with ECG scanner device .
 - Patients with metal materials in body (including metal teeth), using artificial bone.
7. The following user should be agreed by the professionals before using this device.
 - Patients with acute disease.
 - Patients with malignant tumor.
 - Patients with Infectious disease.
 - Pregnancy women.
 - Cardiac disease.
 - Patients with high fever.
 - Being treated or physical abnormalities.
8. Please immediately turn off power supply, stop using if following abnormal situation happened.
 - (1) Water and other matter into the host.
 - (2) Host, power supply line, accessories line and plug etc. occur the abnormal heating, leakage.
 - (3) The sound to be unusual.
 - (4) Abnormal smell, smoke.
 - (5) Any accessories damaged.
 - (6) Natural disasters and earthquake, the sudden thunder
9. When the treatment is finished, please cut off the power supply, be sure to unplug the power plug from the power socket.
10. Please check the power supply line, accessories line carefully every time before use, if found damaged, you should stop using and replacing it.
11. Transportation and storage conditions: Transport according to the requirements of the order contract, the transport process should be to prevent sun and rain; packaged equipment should be stored in relative humidity of not more than 80%, no corrosive gas and ventilated room.
12. The warning mark produce in the specification, its purpose is to enable you to safely and correctly using this device, and to prevent you and others to injury.

Maintenance

- 1.Appliances and medical equipment close to the machine may be resulting in operational failure due to interference.
- 2.Prohibit use of the equipment in the following environment
 - Hot and humid environment
 - Dusty environment
 - Environmental with much smoke or stream
- 3.If there comes a failure, please shut down the power immediately, and send it to the distributor or manufacturer for maintenance. Do not repair by yourself.

4.Exclusion of liability.

The Company is not responsible for the following circumstances:

- (1)If fire, earthquake, war occurred;
 - (2)The fault of the user, operator error;
 - (3)Damage caused by using other method(not included in the use manual).
 - (4)Operate without the manual's guide.
- 5.Do not make the machine close to the wall, keeping a 30CM space around for cooling.
 - 6.The service life of transducer(Transmitter) according to the marking times.

Safety and Environmental Considerations

Hazardous Substances or Elements Contained in the Product

Part Name	Toxic and Hazardous Substance or Element						Remark
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)	
Plastic parts	○	○	○	○	×	×	
Metal structures /decorations	×	○	○	○	○	○	
Printed Circuit Assembly	×	○	○	○	○	○	
Power Line	×	○	○	○	○	○	
Plug of Power supply line	×	○	○	○	○	○	
Relay	○	○	×	○	○	○	
Buzzer	×	○	○	○	○	○	

- × Toxic and hazardous substance in at least one homogeneous materials of the part exceeds the concentration limit requirement described in SJ/T11363-2006.
- Toxic and hazardous substance in all the homogeneous materials of the part is either below the concentration limit requirement described in SJ/T11363-2006 or is not applicable because the part is not used.
- Products to be discarded after use, Please treat in accordance with electronic and information products recovery, re-use legal regulations.

Technical note:

Hardware structure of the machine parts, injection molded parts, and the majority of electronic components, connectors meet the requirements of the EU and China RoHS directives.Only a few parts as the global technology limitations that may affect product reliability, and not find a substitute for the toxic and hazardous substances, please be assured to use, use under normal conditions will not cause health effects on users.

DO IT BEFORE HIFU TREATMENT

CUSTOMER INQUIRY TABLE

NAME		GENDER		AGE		NO:
<p>Inquiry before do HIFU treatment</p> <p>1. Whether face and neck have done Mirco-plastic surgery or plastic surgery or not? when have done it?</p> <p><input type="checkbox"/> Have Mirco-plastic surgery Time _____</p> <p><input type="checkbox"/> No Mirco-plastic surgery</p> <p><input type="checkbox"/> Have plastic surgery Time _____</p> <p><input type="checkbox"/> No plastic surgery</p> <p>2. Whether face and neck have injected any liquid product or not ? when have done it?</p> <p><input type="checkbox"/> Injection Time _____</p> <p><input type="checkbox"/> No Injection</p> <p>3. Does the skin belong to the sensitive skin? Is allergy-prone?</p> <p><input type="checkbox"/> belong to the sensitive skin</p> <p><input type="checkbox"/> Not sensitive skin</p> <p><input type="checkbox"/> allergy-prone</p> <p><input type="checkbox"/> Not easy to allergies</p> <p>4. Does the body have a fever, inflammation, or any symptoms of discomfort.</p> <p><input type="checkbox"/> Have a fever</p> <p><input type="checkbox"/> Inflammation</p> <p><input type="checkbox"/> Other Symptoms of discomfort</p> <p>Warm tips</p> <p>1. It's easy to prone to inflammation, red spot and blisters and other allergic phenomena . even cause the contour deformed (when the power is too strong) , because of above symptoms during HIFU treatment or after the HIFU treatment.</p> <p>2. It is recommended for the customer who has above symptoms don't do the HIFU treatment temporary.</p> <div style="text-align: right; margin-top: 20px;"> <p>Signature:</p> <p>Date:</p> </div>						