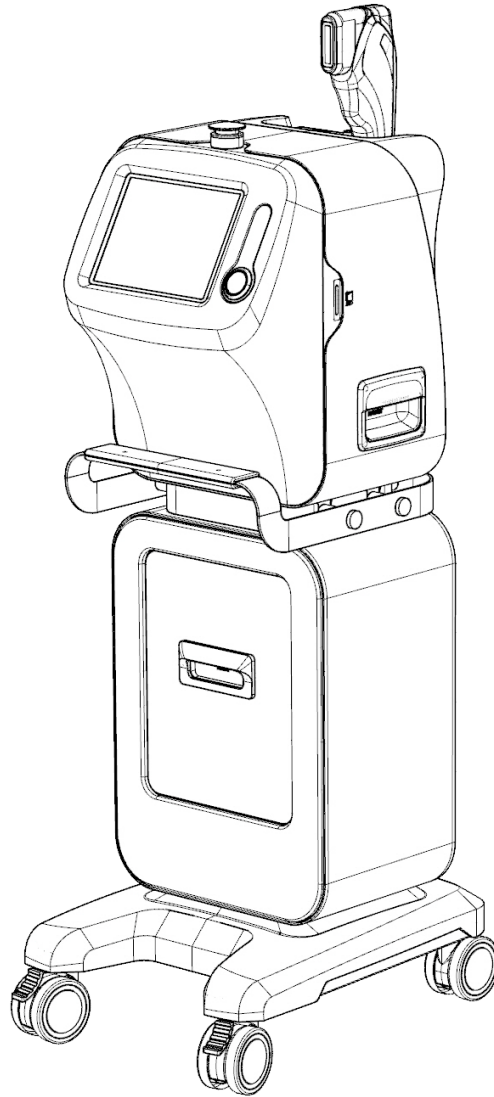


High Intensity Focused Ultrasound (HIFU)

CWM-940 User Manual



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IX. TECHNICAL SPECIFICATION

Thanks for purchasing our HIFU, CWM-940.

We are an expert maker for aesthetic devices who always keep researching and working on customer's side. This device has been developed based on our technology and know-how accumulated through continuous R&D. This manual will help you to use the device safely and to realize the excellence of it

Please read this manual carefully before usage to operate this device correctly and keep it together with Warranty Sheet always at the place you can easily reach out.

1. NOTES FOR SAFETY

For the safety reasons, please kindly read below cautions before using. The manufacturer is not responsible for damaged, disassembled and assembled by customers not authorized engineer.



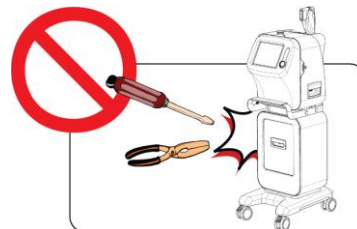
- Never expose the unit to water.
- Keep away from humid place.



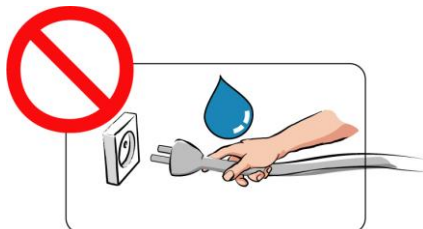
- Do not wear any metallic and conductible accessories.
- Do not use together with other electrical devices at the same time.




- Locate the device on a level, stable surface.
- Do not give any shock to the device



- Never dismantle and remodel the device
- Only use accessories approved by Chungwoo Co.,



- Do not pull on cords or connectors
- Never touch power plug and cord with wet hand.

 Be sure to follow below mentioned contraindications. Those people who suffer from any of the following diseases or are showing any symptoms should not use the electronic device.

- 1) Keloid Patient
- 2) Malignant tumors
- 3) High fever
- 4) Heart Diseases (User of pacemakers)
- 5) User of Spinal or Bladder Stimulator
- 6) Menstruation, pregnancy or After giving birth
- 7) Stroke Patient
- 8) Pupil or/and External patient
- 9) Allergic or/and Atopic dermatitis diseases

II. PRODUCT DESCRIPTIONS

2.1 Device Name: High Intensity Focused Ultrasound (HIFU)

2.2 Model: CWM-940

2.3 Manufacturer's name: Chungwoo Co., Ltd.

2.4 Address: #614 Woolim lionsvally II, 680, Gasan-dong, Geumcheon-gu, Seoul, Korea

III. EXPLANATION AND PURPOSE

1) Outline

High Intensity Focused Ultrasound (HIFU), CWM-940, is composed of main device and hand probe. CWM-940 generates 4MHz, 7MHz frequency by high-intensity focused ultrasonic pulse generator circuit and drives transducer by generated frequency.

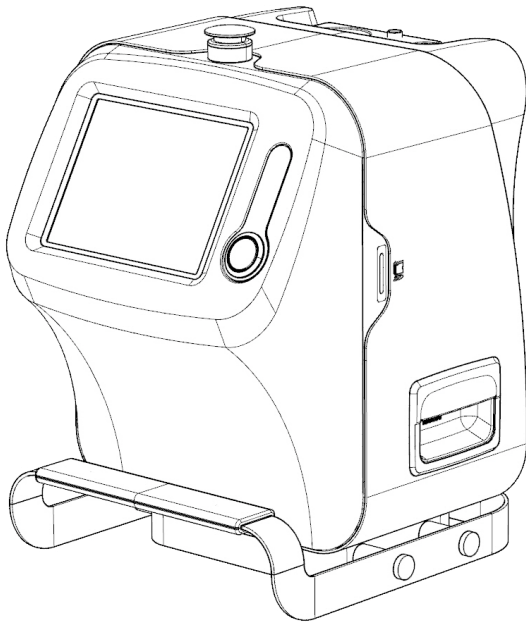
CWM-940 is the eyebrow lifting device by using thermal of focused energy from cartridges.

Users set the parameter with User Interface and control the output of High intensity focused ultrasound with switch of hand probe. Cartridges can be changeable depending on the depth.

2) Purpose: Eyebrow lifting device with High Intensity Focused Ultrasound generator.

IV. EQUIPMENT AND FUNCTIONS

A. Features



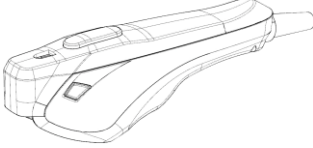







- **Optimized design**
- **Easy detachable and ergonomic hand probe**
- **Variable Cartridges**
- **Cart with storage space**
- **Ultrasound output : $0.1\text{J}/\text{cm}^2 \sim 2.0\text{J}/\text{cm}^2$**

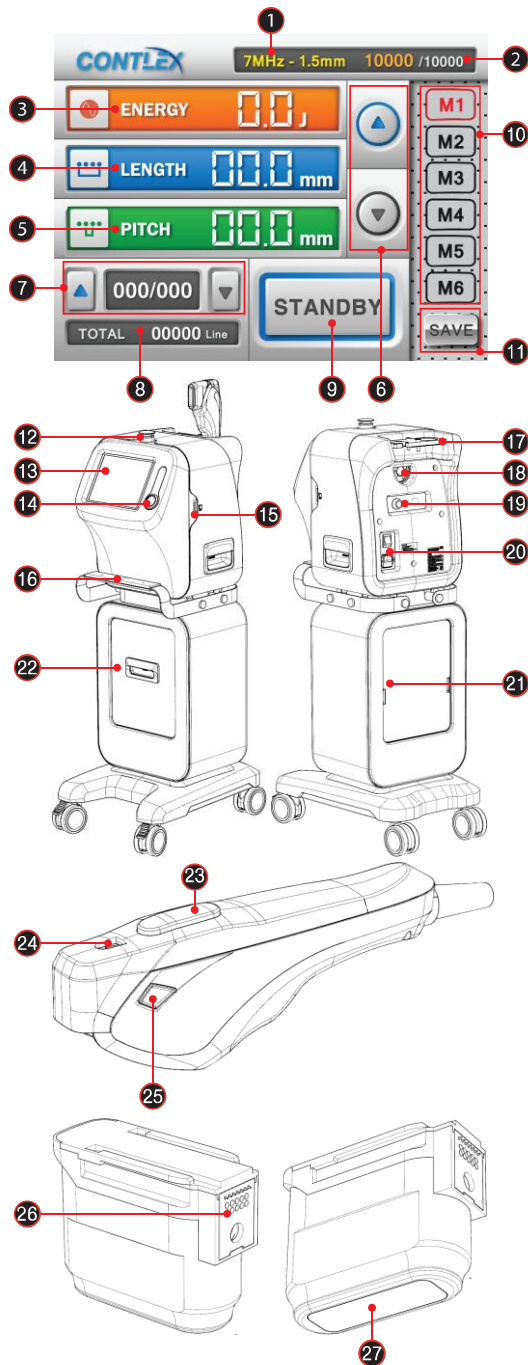
B. Specification

- **Rated voltage: 220V, 50/60 Hz**
- **Power consumption: Max. 300VA**
- **Ultrasound output frequency: $4\text{MHz} \pm 20\%$, $7\text{MHz} \pm 20\%$**
- **Max sound energy: $2.0\text{J}/\text{cm}^2$**
- **Temperature of focused area: within $55^\circ\text{C} \pm 5^\circ\text{C}$**
- **Display : 8 inch TFT touch LDC**
- **Dimension(mm): 334(W) X 340(D) X 448(H)**
- **Weight: 17kg (main unit only)**
- **Cart - Option / gel - Not supplied with standard accessory.**
- **Electric Shock Protection: 1st grade BF type**

C. Components

Name	Image	Q'ty	Note
Main device		1EA	
Cart			Option
Hand piece		1EA	
7MHz-1.5mm Cartridge		1EA	Consumable
7MHz-3.0mm Cartridge		1EA	Consumable
7MHz-4.5mm Cartridge		1EA	Option(Consumable)
4MHz-4.5mm Cartridge		1EA	Consumable
Power cord		1EA	

D. TOUCH LCD and Product composition



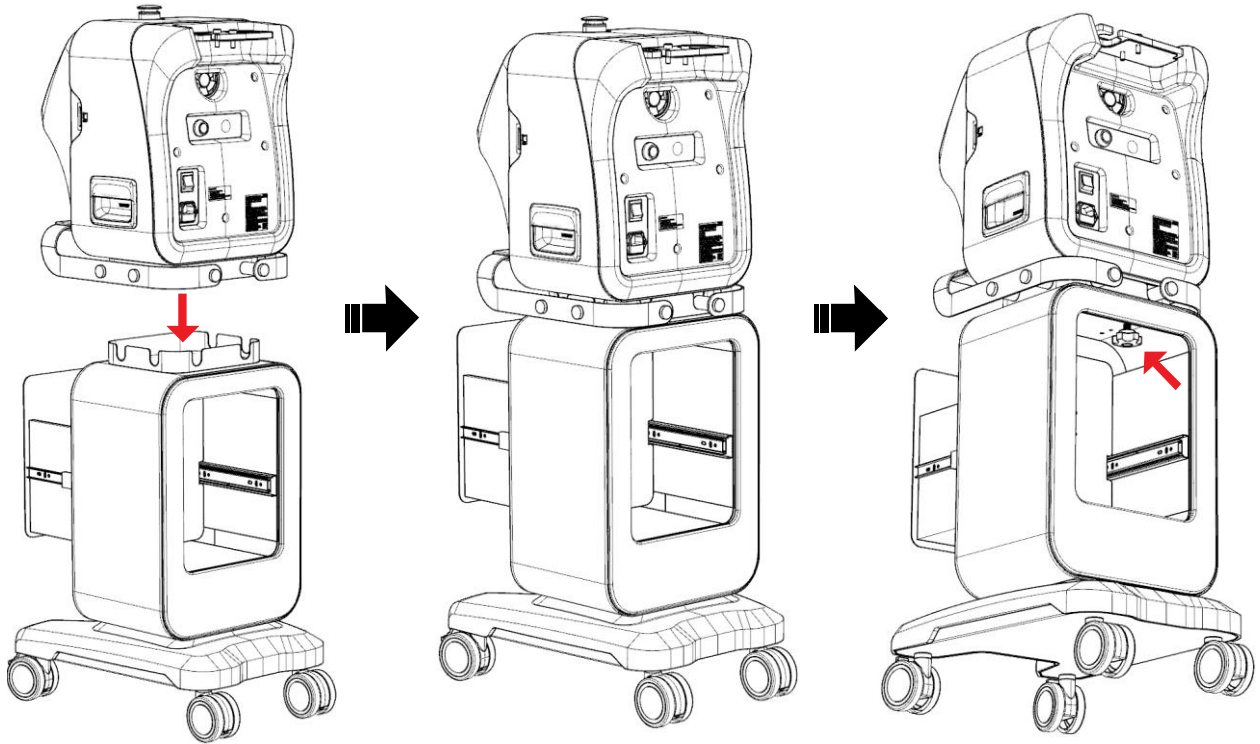
No	Name	Explanation
1	Display for cartridge information	Display cartridge information
2	Display for shot lifespan	Display usable degree of cartridge
3	Selection button of Energy	Display output intensity
4	Selection button of LENGTH	Display the over-all length of shot
5	Selection button for PITCH	Display the space of shot
6	Adjustment button	Adjust power/Length/Pitch
7	Setting and display for cartridge shot counter	Display counter setting about the cartridge using shot
8	Display for total cartridge shot counter	Display total shot counter
9	Button for standby/Ready	Display Standby/Ready
10	Mode button (Save mode)	Display save space for set value (M1~M4)
11	Save button	Order save of set mode
12	Emergency Key	Power down in case of emergency situation
13	Touch LCD	Display operation UI
14	Power button	Power ON/OFF
15	SD card slot	For program upload
16	Handle	For mobile
17	Holder for hand piece	For holding hand piece and gel
18	Fan	Expel the inner air
19	Ultrasound output socket	Output socket for connection of hand probe
20	Power switch and power inlet	Supply or block the power
21	Cart	Only cart while mobile
22	Cart Drawer	For storage of cartridges and so on
23	Start button	Order ultrasound output
24	Output display LED	Display while ultrasound output comes Out
25	Cartridge desorption button	For cartridge desorption
26	Cartridge connection point	While connection of hand probe, connect between output and signature.
27	Ultrasound output penetration film	Ultrasound is transferred through the penetration film

V. Assembly (Main Device + Cart / Hand piece + Cartridge)

✓ Connection Main device and Cart

Cart connection about device safe

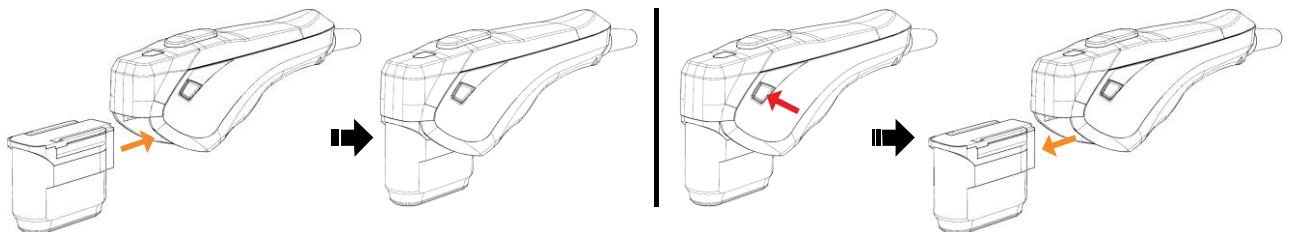
Refer to the below pictures and check the connection method.



- Put the main device on the cart properly.
- Connect main device and cart by tightening the clip bolt

✓ Cartridge desorption method

Refer to the below picture and check the desorption method



- Push the cartridge in the hand probe until you hear "clack" sound.
- In case of cartridge separation, push the cartridge out by pushing the both button.
- In case of involuntary segregation of cartridge, hand probe problem can be cause.

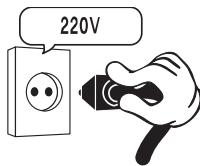
VI. STARTING OPERATION

A. Before operation

- 1) Read this user's manual with care and understand operation methods and caution/warning.
- 2) Check whether power switch is 'OFF'.
- 3) Connect power cord only to grounded socket
- 4) Electrical spark can be made. Keep away and install, set up device from explosive materials.
- 5) Don't place any liquid near device.
- 6) Check all connecting conditions before starting operation (Hand probe, power cord and so on)
- 7) Device should be ground to prevent yielding of low frequency current like low frequency leakage current.
- 8) Place / Install device at air circulation place. Don't place/install device at corner or shelf.
- 9) Before use, check whether the connection (hand probe, cartridge) is proper.
- 10) Use the device after removing the foreign matter on the handle by rubbing the clean cloth

B. Operation and operation sequence

1. Connect the power cord



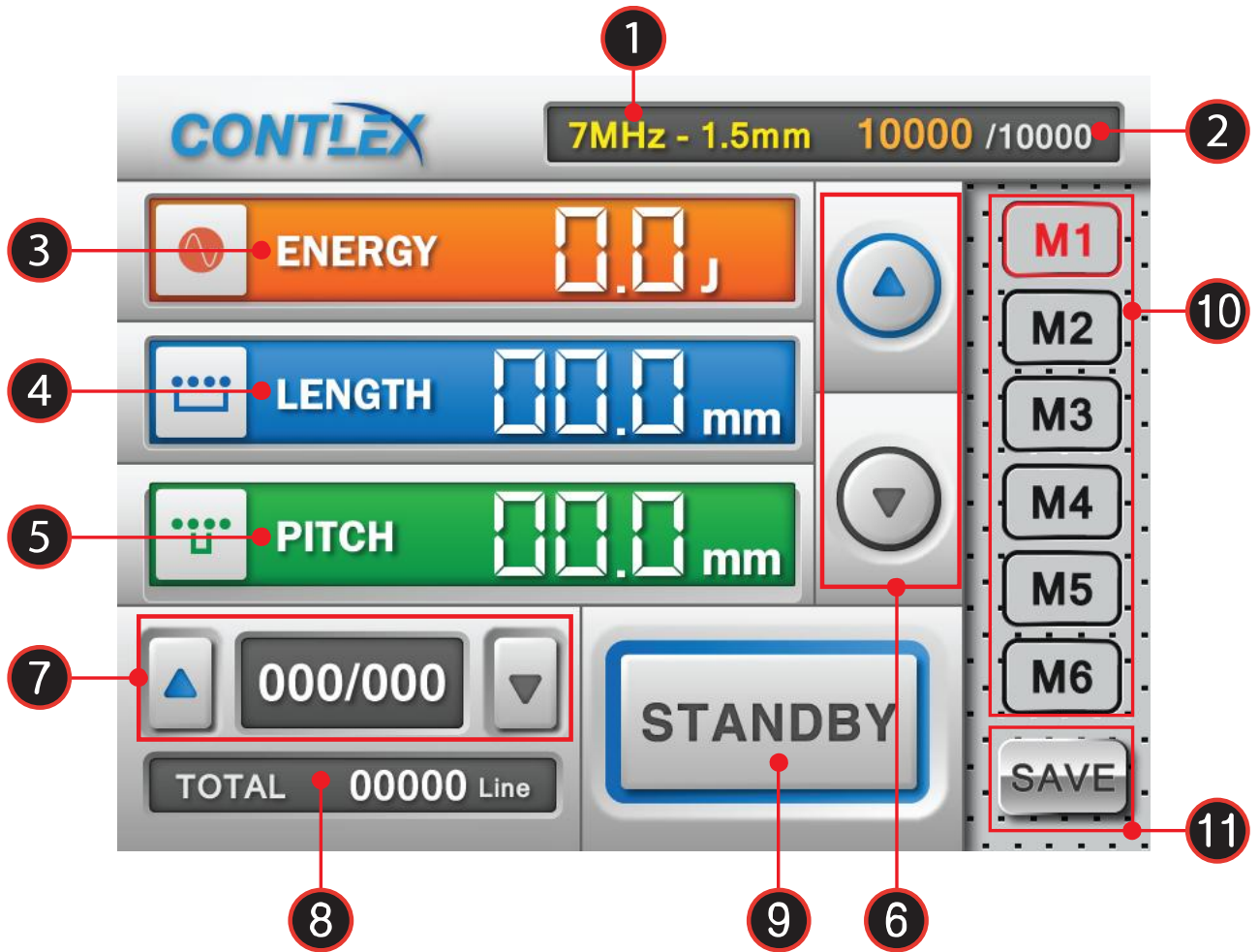
- Check the connector socket for Hand probe output plug to main device.**

2. Switch 'ON' main power switch at the rear side of device. Then, switch 'ON' front power switch.



- Initial booting

3. GUI



No	Name	Explanation
1	Display for cartridge information	Display cartridge information
2	Display for shot lifespan	Display usable degree of cartridge
3	Selection button of Energy	Display output intensity
4	Selection button of LENGTH	Display the over-all length of shot
5	Selection button for PITCH	Display the space of shot
6	Adjustment button	Adjust power/Length/Pitch
7	Setting and display for cartridge shot counter	Display counter setting about the cartridge using shot .
8	Display for total cartridge shot counter	Display total shot counter (For reset this counting, push this button again.)
9	Button for standby/Ready	Display Standby/Ready
10	Mode button (Save mode)	Display save space for set value (M1~M4)
11	Save button	Order save of set mode

- 1) After booting, connect the hand probe to main device.
- 2) Once cartridge (7MHz-1.5mm/3.0mm/4.5mm, 4MHz-4.5mm) is decided for customers, after cartridge is attached to the hand probe, adjust Energy, Length and Pitch as described.
- 3) Once setting values is set, adjust READY condition by pushing the STANDBY button.
- 4) During the operation, gel for ultrasound should be wore to the cartridge or customers.
- 5) Start operating by pushing the start button located on the hand probe.



Precaution during the using and operation

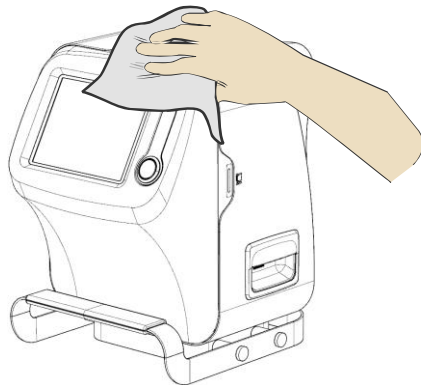
- 1) Once cartridge life span (usage count) is decided, follow the regulation of usage count.
Usually 10,000 shots are applied and once Remain Display counter indicates "0", cartridge should be changed. In case of using continuously, operation result might be not good and problem can be caused to customers.
- 2) Users should use the device after being well informed and do not judge the operation result with any judgment.
- 3) Ultrasound gel should be put between transducer and skin and operation should be occurred without any space between transduce and skin.
In case of too much ultrasound gel or any space between transducer and skin, focal depth can be affected so it may cause the burn.
- 4) To turn off the device, after holding the handle to holder, push the front power button.
- 5) Switch 'OFF' main power switch at the rear side of device and keep the product safely.

VII. NOTES FOR SAFE KEEPING

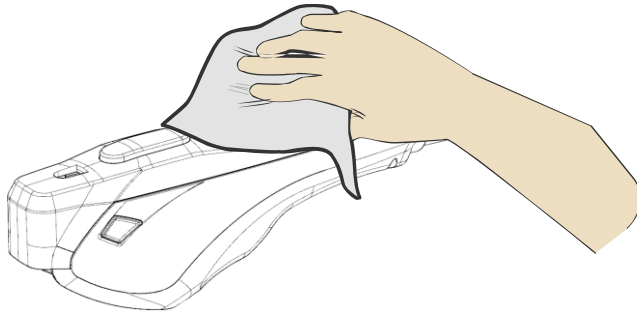
A. Management and Keeping method

• Product management after use

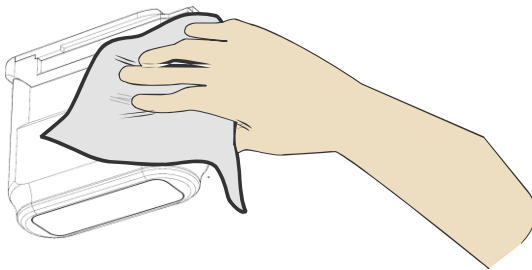
- 1) After using the device, remove the any foreign matter on the main device and LCD.



- 2) After use, hand piece should be clean.
(Foreign matter might cause the problem.)



- 3) After use, cartridge should be clean.
(Foreign matter might cause the problem.)



After cleaning, cartridge should be kept with rubber cover.

▪ **Keeping method after use**

- 1) Before cleaning, turn off the main power and clean the device with clean and soft cloth.
 - ☞ Remove the dust per a week with soft cloth.
 - ☞ While removing the dust, be careful of scratch on the display.
 - ☞ After use, turn off the power and keep safe.
- 2) Keep the device at room temperature.
- 3) During movement, do not drop the keep away from serious shock.
- 4) Pull the plug out and do not use chemical solvents such as benzene and thinner.

B. Precautions

- 1) This unit should be operated by Doctor's prescription.
- 2) Surface for Ultrasound delivery should be cleaned always and using conductivity ultrasound gel close to skin.
 - ☞ In case of too much hairs on skin or something on cartridge, it may occurred itching feeling so this unit should be stick to skin very closely without any hairs and remove all the foreign objects.
- 3) The people who got dermabrasion should counsel with doctors or specialists.

- 4) It was prohibited to use in duplicate with other device.
 - ☞ It may occurred potential differences, the magnetic field or interference so this device should be used at least 1M away from other devices.
- 5) Don't touch power plug and cord with wet hand.
 - ☞ For protection purpose, please do not touch the power plug when the power cable is connected.
- 6) During the operation, if you drop the hand piece or take off on skin, please stop the unit and shut off the output then restart the unit.
- 7) Do not use or storage more than 80% of humidity. In this case, the unit could be damaged and malfunction.
- 8) When the unit is using under big difference of temperature for long time, it makes shorten its life-time so the unit could be damaged permanently.
- 9) Install the unit should be maintained level on flat and hard floor.
- 10) Check power plug connection and use its own power cable.
- 12) Only approved gel should be used for operating. (Gel is not supplied with the unit.)
- 13) During the operation, if there is rubefaction, papule or blister, please stop to operating.
- 14) If you found something different or problem, please contact authorized distributor and service center.
- 15) Per each condition, the operating shots could be adjusted but total maximum shot counting (10,000 shots) should be kept.
- 18) Avoid to using on near to aorta which is running to bran and heart.
- 19) Cartridge is consumable so it so not allowed to use more than its maximum limitation.
- 20) Those people who suffer from any of the following diseases do not allow to use this device.
 - ① Acute diseases
 - ② Malignant tumor
 - ③ High fever
 - ④ Heart disease, especially who use installed face-maker device
 - ⑤ pregnancy
 - ⑥ Abnormal symptom at treatment area
 - ⑦ Pupil, external injury
 - ⑧ Allergy and atopic dermatitis
 - ⑨ Damaged by burn
 - ⑩ under 12 year-old

C. Operating condition

- Temperature : 10 °C to 40 °C
- Humidity : 30 % to 75 %
- Pressure : 700 hPa to 1060 hPa

D. Storage condition

- Temperature : -20 °C to 60 °C
- Humidity : 0 % to 90 %
- Pressure : 700 hPa to 1,060 hPa

VIII. SERVICE AND TROUBLESHOOTING

- Before you contact to distributor for the problem, please kindly check below points.

1. Power lights not on	<ul style="list-style-type: none"> ① Check if power cord is connected. ② Check the power switch is on. ③ Check the Emergency power switch is pushed.
2. Ultrasound output is not working	<ul style="list-style-type: none"> ① Check the cable connection. ② Check the accessory connection. ③ Please contact to distributor.

- If following these troubleshooting suggestions does not solve the problem call authorized distributor or service center.

IX. TECHNICAL SPECIFICATION

Power and frequency	AC 220V, 50/60Hz
Display	8 inch TFT touch screen
Dimension (mm)	334(W) X 340(D) X 448(H)
Weight	17kg (Main unit) / 19kg (Trolley)
Power consumption	300VA
Max. Energy	2.0J/cm ²
Temperature on Focus area	55℃ ±5 ℃
ELECTRIC SHOCK PROTECTION	Class I BF

Warranty

Product Name	CONTLEX	Sales shop	
Model	CWM-940	Tel no.	
Seller		Person in Charge	
Product No.		Applicant name	
Rated Voltage		Applicant Tel no.	
Date of Purchase	Main unit: 1 year (except accessories)	Applicant address	

- Please fill out above when you purchase the product.
- We are not responsible for the after service or any disadvantage when you do not have a warranty sheet.

Regulation of Warranty

<Warranty Period>

Warranty period is 1 year after the date of purchase with no repair charge in case the damage happened in normal condition of the device.

<The exception of warranty>

We are not responsible for:

1. Damage due to careless handling or mistake by user.
2. Damage due to renovation of production or repair by others than our A/S representative.
3. Damage due to using other accessories or expendables than our appointed equipment.
4. In case the warranty sheet is not filled out, without signature or falsely filled out.
5. Damage cause from the power problem
6. Damage due to using the device for other purpose.
7. Damage due to natural disaster like fire, earthquake, flood and etc.

< Repair after warranty period>

For the repair after warranty period, repair charge is paid by the purchaser. The exceptional matters which are not mentioned in this sheet will be treated according to regulation of compensation for consumers based on law of consumer protection. Please contact to the sales shop for the other damage or request. Please read the manual carefully before using.

Thanks for purchasing our product. You will need this warranty sheet when you ask for A/S, so please keep this safely. For any dissatisfying service or request, please contact the sales shop.

