

MULTI-FUNCTIONAL RF DEVICE

CWM-920



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Thanks for purchasing our MULTI-FUNCTIONAL RF DEVICE, CWM-920.

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.

I. NOTES FOR SAFETY

For safety, and to prevent any loss of customer's property, please read below mentioned statements and use properly according to them. We are not responsible for any accident or damage due to the user's voluntary disassembling or remodeling of the device.



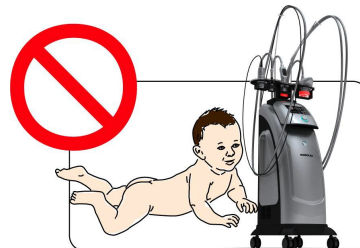
- Never expose the unit to water.
- Keep away from humid place.



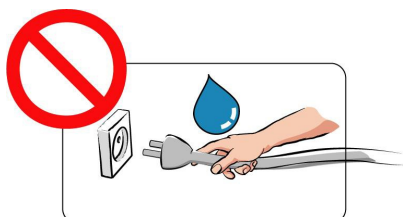
- Do not wear any metallic and conductible accessories.
- Do not use together with other electrical devices at the same



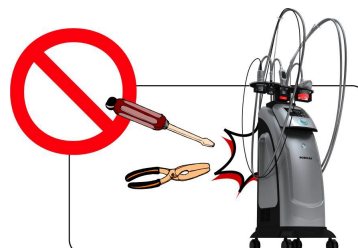
- Locate the device on a level, stable surface.
- Do not give any shock to the device




- Keep the device out of the reach of children



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



- Never dismantle and remodel the device
- Only use accessories approved by ChungWoo

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

II. EQUIPMENT AND FUNCTIONS



GENERAL FEATURES

- n 3 size hand probes for each operation region
- n RF(Multi-Polar type) hand probe
- n 5 built-in Modes for each hand probe
- n Control intensity only with hand probe during operation
- n 1~3 Mhz RF output



TECHNICAL INFORMATION

- ⊙ Power : AC 220V, 60Hz
- ⊙ Power Consumption : 500VA
- ⊙ RF Output(Non-inductive resistance 500Ω and after making a connection with using electrode)
 - ① Output Frequency : 1Mhz ± 20%
 - ② Max Output : 100mA
- ⊙ Ultrasound Output
 - ① Output Frequency : 38Khz(Piezo-electric element permission frequency)
 - ② Max Output : 10W ± 20%
 - ③ Ultrasound Radiation Area : 9.6cm² ± 20%
 - ④ Max Valid Intensity : less 3W/cm²
- ⊙ Laser Output
 - ① Laser grade : Low level output Class 3A
 - ② Wavelength : 655nm
 - ③ Max Output : 3mW ± 10%
- ⊙ ELECTRIC SHOCK PROTECTION: Class I BF

- ⊙ Time Control : 1~30 Minutes. / Adjustment unit 1 minute
- ⊙ Zero-start control and over current protection program for patient safety



INDICATION OF USE

- n **Body contouring and Reducing Body Fat**
- n **Maximize Effects after Liposuction**
- n **Cellulite reduction**
- n **Skin elasticity recover and lifting**
- n **Edema treatment**
- n **Myalgia muscle pain relief for Shoulder, Neck, Hip, Foot, Knee and Back**

2-1. ACCESSORY

Name	Feature	Application	Remark
RV-25		Face/Hair	
RV-60		Arm/Calf etc.	
RV-90		Abdomen/Buttocks/Thigh etc.	
CAVI-38		BODY	
Connecting cable		For RV90 / 60	

2-2. DISPLAY



No.	NAME	DESCRIPTION
1	RV-90 Selection button	Select RV-90 hand probe
2	RV-60 Selection button	Select RV-60 hand probe
3	RV-25 Selection button	Select RV-25 hand probe
4	CAVI-38 Selection button	Select CAVI-38 hand probe .
5	Hand probe selection menu	Select desired hand probe
6	RF frequency display window	Display RF output frequency
7	Suction mode display window	Display suction mode.
8	RF mode display window	Display RF mode
9	Start/Pause button	Start / Pause device of stop.
10	Stop button	Stop device.
11	Back button	Back to previous screen.
12	Output intensity display/Selection button	Display RF/Suction intensity
13	Laser mode display window	Display Laser mode
14	Intensity control button	Control RF/Suction output power.
15	Auto mode control button and display window	Control Auto mode and display
16	Set up time control button and display window	Set up time and display.
17	Hair/ Face mode selection button	Select Hair/ Face mode
18	Ultrasound output display window	Display Ultrasound intensity
19	Ultrasound output control button	Control Ultrasound intensity.
20	Auto mode control button and display window	Control Auto mode and display.
21	RV90/60 Output socket	Connect connecting cable
22	CAVI-38 Output socket	Connect CAVI-38 hand probe.
23	RV25 Output socket	Connect RV25 hand probe
24	RV90/60 Filter	RV90/60 filter for suction
25	RV25 Filter	RV25 filter for suction

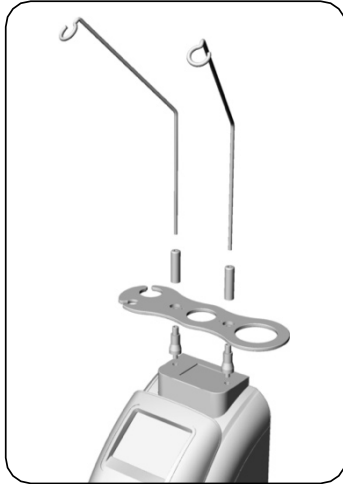
2-3. OUTPUT MODE (RF/SUCTION PRESSURE)

HAND PROBE	MODE	OUTPUT FREQUENCY	DESCRIPTION			Remark
			RF/U.L (on/off, ms)	SUCTION PRESSURE	LASER (on/off, ms)	
RV-90	MODE 1.	1 Mhz	CONTINUE MODE	Intermittent Mode 1	Con. Mode	
	MODE 2.	1-1.2 Mhz		Intermittent Mode 2	1000/1000	
	MODE 3.	1.2 Mhz		Intermittent Mode 3	500/500	
	MODE 4.	1.2-1.4 Mhz		Intermittent Mode 4	250/250	
	MODE 5.	1.4 Mhz		Con. Mode	125/125	
RV-60	MODE 1.	1.4 Mhz		Intermittent Mode 1	Con. Mode	
	MODE 2.	1.4-1.6 Mhz		Intermittent Mode 2	1000/1000	
	MODE 3.	1.6 Mhz		Intermittent Mode 3	500/500	
	MODE 4.	1.6-1.8 Mhz		Intermittent Mode 4	250/250	
	MODE 5.	1.8 Mhz		Con. Mode	125/125	
RV-25	MODE 1.	2 Mhz		Intermittent Mode 1 (Hair Off)		
	MODE 2.	2.2-2.4 Mhz		Intermittent Mode 2 (Hair Off)		
	MODE 3.	2.4-2.6 Mhz		Intermittent Mode 3 (Hair Off)		
	MODE 4.	2.6-2.8 Mhz		Intermittent Mode 4 (Hair Off)		
	MODE 5.	3 Mhz		Con. Mode (Hair Off)		
CAVI-38	MODE 1.	38Khz	100/200			
	MODE 2.		300/300			
	MODE 3.		300/300			
	MODE 4.		200/200			
	MODE 5.		100/200			

III. INSTALLATION

✓ Shelf and arm installation

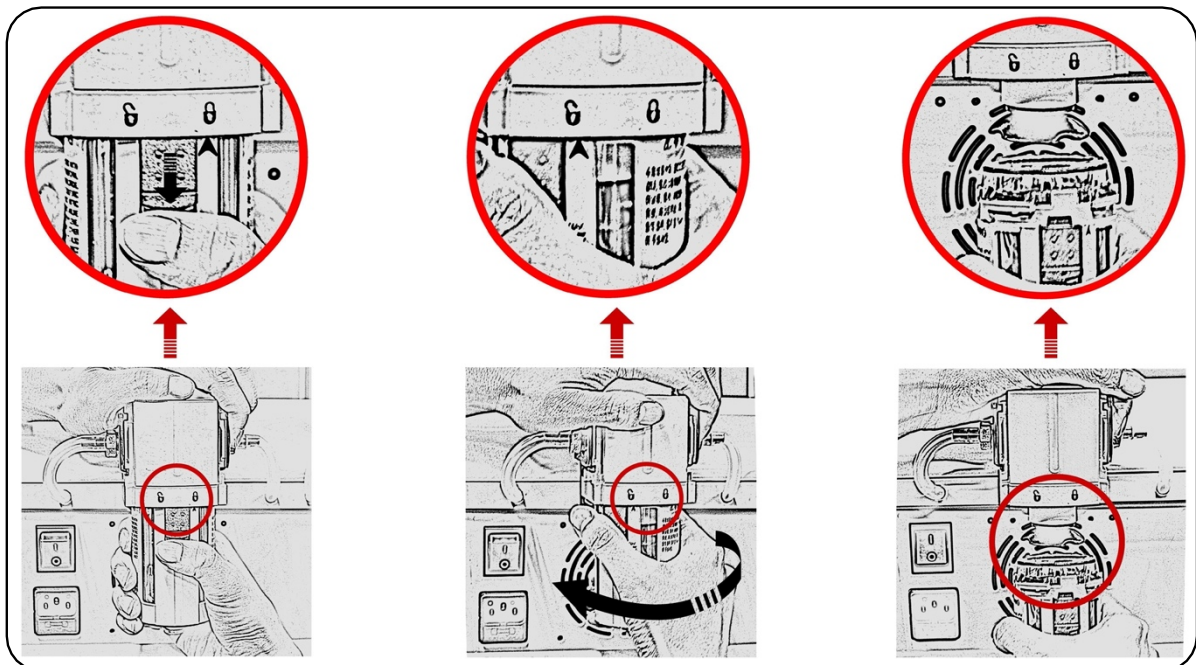
Install shelf and arm from the bottom in order



✓ THE CORRECT ORDER FOR DETACHING THE VESSEL FROM THE AIR FILTER

When separating the vessel from the air filter, hold the top part with your hand firmly then softly

turn the vessel to  as the picture shown. Please check the below instruction carefully before use.



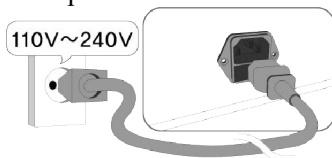
IV. STARTING OPERATION

▪ 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 condition 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 RF device makes RF voltage and current. These voltage and current could affect on other devices' function. Please, consider this RF device's characteristics before device installation.
- ⑩ Check package condition for disposable Micro-needle before using.

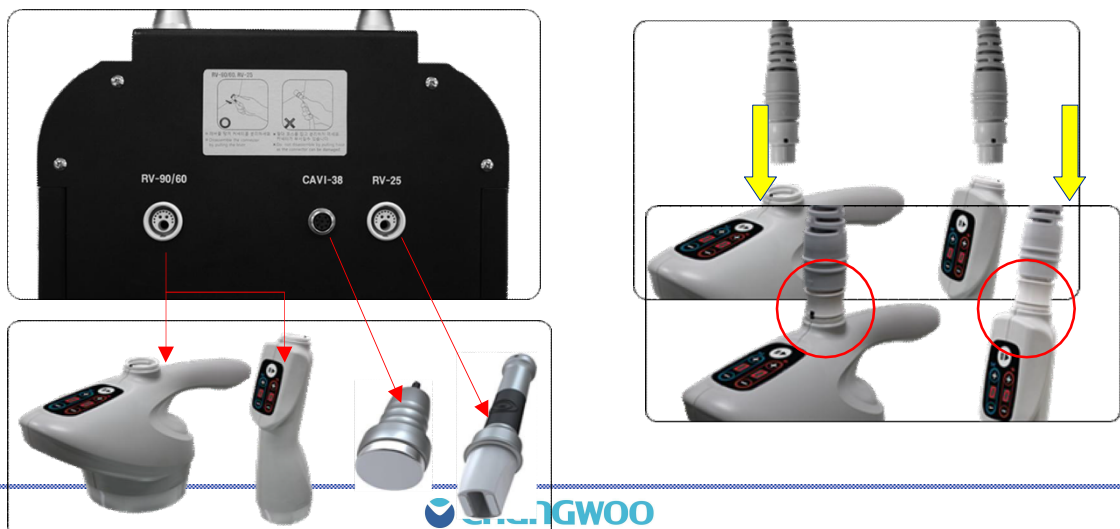
▪ Operation and operation sequence

1. Connect power cord.



- ✓ Please, check below connector socket for each RF-90/60, RV-25 and CAVI-38 hand probe.

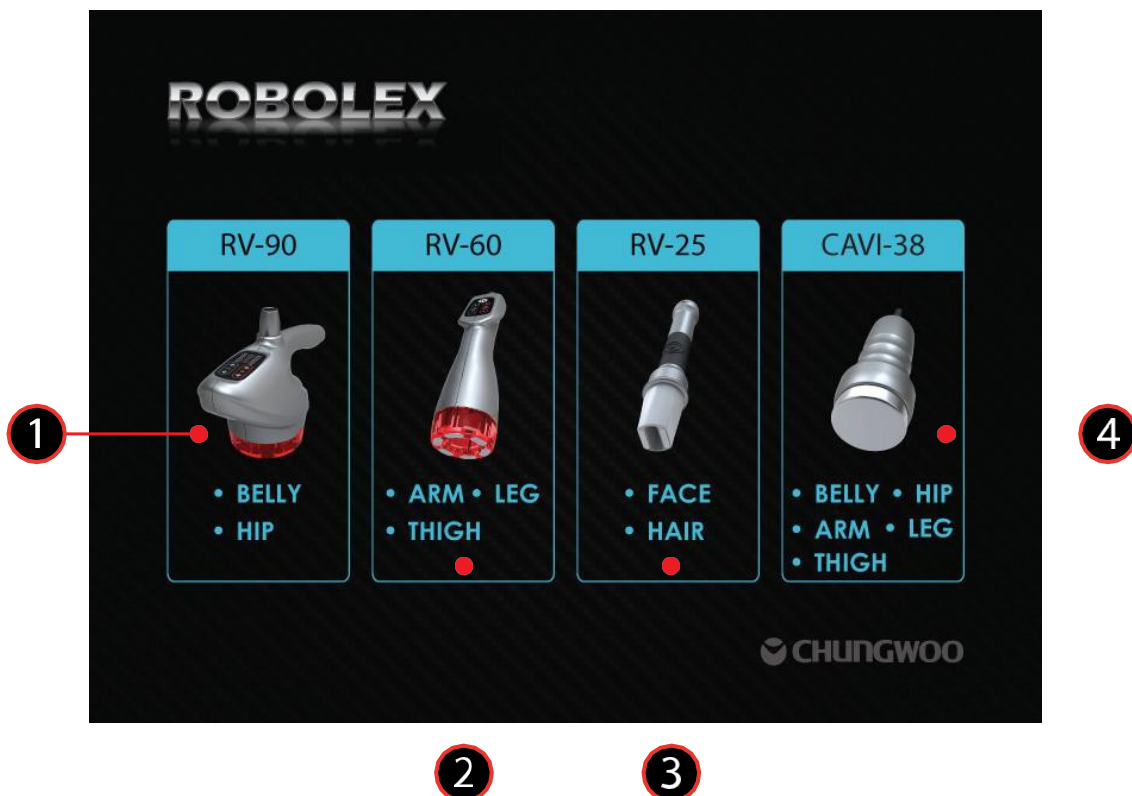
And attach each hand probe on proper socket.



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

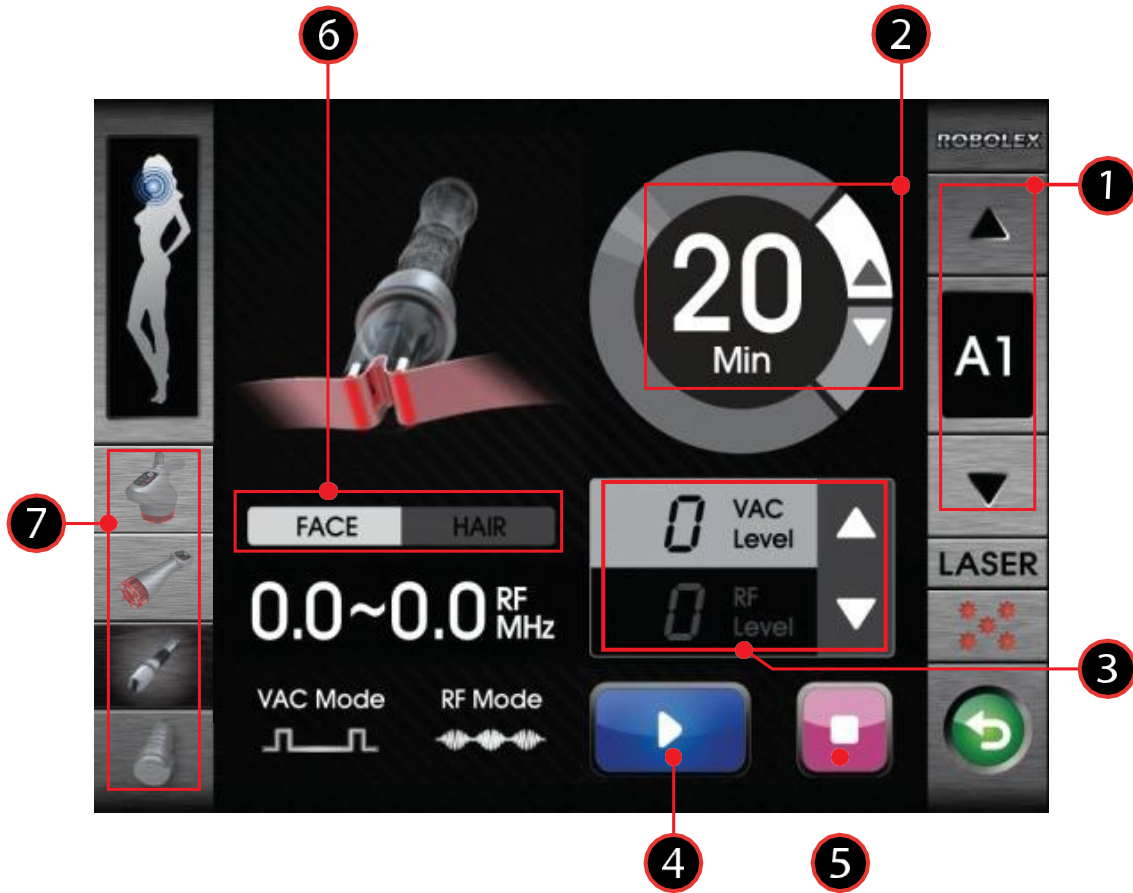
- ☞ When the machine turns on, cleaning mode will be started automatically about 10 sec.
- ☞ Please do not touch LCD and turn on the hand-piece during auto cleaning mode.


3. MAIN DISPLAY




- 1) Once RV-90 is selected, RV-90 AUTO Mode window will be displayed.
- 2) Once RV-60 is selected, RV-60 AUTO Mode window will be displayed.
- 3) Once RV-25 is selected, RV-25 AUTO Mode window will be displayed.
- 4) Once CAVI-38 is selected, CAVI-38 AUTO Mode window will be displayed.


4. RV-90/60/25 MODE SET UP





1) Select desired AUTO mode from A1 to A5 with UP/DOWN key 

2) Select desired operation time with UP.DOWN key  (1~30 Minutes)


3) After starting the device, control Suction or RF output intensity with ENCODER or UP/DOWN

Key  (Suction : 9 Level, RF : 9 Level)

4) Start machine with 'START' button. 


5) Select 'STOP' button  to stop device.


6) In case of using RV-25 hand probe, FACE or HAIR  should be selected at first.

7) Select desired hand probe to change other hand probes. 


5. CAVI-38 MODE SET UP (OPTIONAL)





1) Select desired AUTO mode from A1 to A5 with UP/DOWN key 


2) Select desired operation time with UP/DOWN key  (1~30 Minutes)

3) After startin the device, control Suction or RF output intensity with ENCODER or UP/DOWN Key

 (1~20 Level)

4) Start machine with 'START' button. 

5) Select 'STOP' button  to stop device.

6) Select desired hand probe to change other hand probes. 

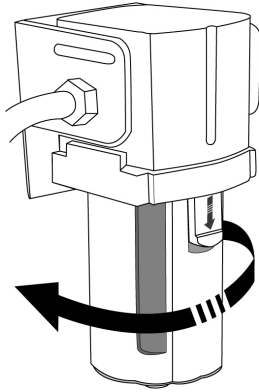
6. HOW TO USE EACH HAND PROBE




- 1) After starting device, Select desired suction intensity (1~9 Level) with UP/DOWN arrow key on the hand probe or ENCODER on the main body. (RV-90/60 Hand probe only)
 - 2) After starting device, Select desired RF intensity (1~20 Level) with UP/DOWN arrow key on the hand probe or ENCODER on the main body. (RV-90/60 Hand probe only).
 - 3) After starting device, operating button on RV-90/60 / 25 should be pressed to produce any output. If operating button isn't pressed, device doesn't produce any output (RF, Suction and laser).
7. Place all hand probes into the right insertion holes of the upper shelf. Then, push power button at the front of main unit to turn off device.
 8. Turn off main power switch at the rear of device and detach power cord to keep it safety.

V. NOTES FOR SAFEKEEPING

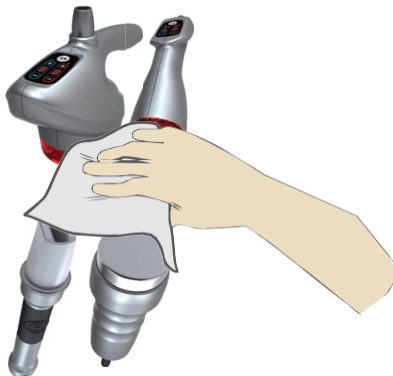
▪ Maintenance after use



1. Be sure to separate air filter to clean accumulated waste oil inside of the filter after several treatments.

When opening the filter, hold the top part with your hands firmly then softly turn the vessel to  as the picture shown

2) Dry out the all hand probes and keep it clean after use
(Foreign object could be caused of device error or damage.)



▪ Caution for safekeeping

- 1) Disconnect power cord before clean the device and accessories. Clean the device and hand probe with dried cloth.
 - ☞ Need cleaning machine with soft cloth at least once a week.
 - ☞ Avoid any scratches during cleaning the device (Need special care for Display)
 - ☞ Turn off both power switches (Front and rear). Then remove power cord.
- 2) Device should be kept under proper external environment.
(Temperature: 10 ~ 40°C, Humidity: 30 ~ 80%, Pressure: 500hPa ~ 1060hPa).
- 3) Do not drop or get external impact during device moving.
- 4) Remove residue with wet cotton from RF electrode after use. And cover it with protect film.

5) Remove plug. Do not use benzene, acetone, or lacquer thinner for cleaning

▪ **Caution for safekeeping**

1) Need doctor's prescription or counsel to get operation with device.

2) Device should be operated based instructions on user's manual.

3) Keep all electrodes clean condition. Apply conductive gel (in case of using RF) or ultrasound gel (in case of using Ultrasound) on the electrode and press it against skin.

☞ If there is residue on the surface of electrode or hair on the operating region, it can make trouble of electrode's contact or conductivity. Please, remove residue or hair and strongly press electrode against skin.

4) Remove all metal like watch, ring and necklace from patient's body before RF operation.

5) Do not stare laser beam directly and don't emit it to other persons' eyes.

6) Do not use device (electrode) near eye.

7) Person who had face lift needs counsel with dermatologist or skin specialist before operation.

8) External impact is fatal for device damage.

9) Do not operate machine with other devices.

☞ If other devices are working near this machine, potential difference, magnetic field and interference phenomenon could be happened. Hence, machine should be kept away from other devices at least 1m.

10) Do not touch connecting cord.

☞ Do not touch power cord under power 'ON' at any case for safety.

11) Stop machine before attaching (detaching) the device or electrode on (from) operating region to avoid any stimulation made by device.

12) Do not open/disassemble device!

☞ User can not repair this device even small part. If unscrew the device, sensitive circuit could be damaged by static.

13) Avoid physical impact!

☞ Drop or shake machine could evoke machine's damage.

☞ In case of long distance moving of device, packing it with supplied packing carton before moving.

14) Avoid humid, wet place!

☞ Do not place the device at place where has over 80% humidity. If device is working this condition, it could make abnormal working and damage of device

15) Avoid place where high fluctuation of temperature!

☞ If place the device where high fluctuation of temperature for a long time, life time of machine could be shorten caused by components' damage.

- 16) Do not take a meal near the device!
 - ☞ If spill water on the device, it could make fatal damages on sensitive electric components.
- 17) Don't use knife to open packing box.
- 18) Maintain level during device installation.
- 19) Locate the device on a level, stable surface.
- 20) Check power cord connecting condition whether it is correctly and safely connected.
- 21) Do not use unreliable power cord. Use only supplied power cord by supplier or CHUNGWOO.
- 22) Apply enough RF cream on the operating region and don't stay electrode one place for a long time.
- 23) Stop operation if there are ruber, papulosis and allergy.
- 24) In case of abnormal feeling during operation, stop operation and call A/S or CHUNGWOO.
- 25) Reduce or increase operating time based on patient's symptom but don't use over prescribed operation times.
- 26) Need special care when operate a person who under 12 years old. Operate with minimized output power.
- 27) Do not use device (electrode) on large aorta which flows to brain or heart.
- 28) Those people who suffer from any of the following diseases or are showing any symptoms should counsel with doctors
 - ① Acute diseases
 - ② Malignant tumors
 - ③ High fever
 - ④ Heart Diseases (User of pacemakers)
 - ⑤ Menstruation, pregnancy or After giving birth
 - ⑥ People who has trouble skin where will be operated.
 - ⑦ Pupil or/and External patient
 - ⑧ Allergic or/and Atopic dermatitis diseases
 - ⑨ People who were damaged skin by burn

VI. SERVICE AND TROUBLE SHOOTING

- Always make a visual inspection of the device and control panel when troubleshooting. Look for loose or discounted wires that may be the source of trouble.

1. Power lights not on.	① Check if power cord is connected. ② Check if power switch is to "ON" position.
2. When you cannot feel any intensity from the output.	① Check if the cable connectors are correctly and firmly connected. ② Check if all accessories are correctly connected firmly ③ Call sales store or A/S center

- If following these troubleshooting suggestions does not solve the problem call sales distributor or its A/S center.

VII. TECHNICAL SPECIFICATION

Rated Voltage	220VAC, 50/60Hz
Power consumption	MAX 500VA
Display	8 inch TFT touch screen
Dimension (mm)	434(W) * 540(L) * 1,070(H) – Main unit only 464(W) * 540(L) * 1,621(H) – Including shelf
Weight	50 KG
RF Output (Non-inductive resistance 500Ω)	- Output Frequency : 1M ~ 3Mhz ± 20% - Max Output current : 100mA
Ultrasound Output	- Output Frequency : 38Khz(Piezo-electric element permission frequency) - Max Output : 10W ± 20%
Laser Output	- Laser grade : Low level Class 3A - Wavelength : 655nm - Max output : 3mW ± 10%
Suction Pressure	- Max 670mmHg(0.9bar)
Time Control	- 1~30 Minutes. / Adjustment unit 1 minute
Electric Shock Protection	Class I BF

Warranty Sheet

Product Name	Multi-Functional RF Device	Sales shop	
Model	CWM-920	Tel no.	
Seller		Person in Charge	
Product No.		Applicant name	
Rated Voltage		Applicant Tel no.	
Date of Purchase		Applicant address	
Warranty period	1year from date of purchase	Gender / Age	

- 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. the 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.