

Ultra-Form Beauty Therapy Ultrasound

Patented soft gel ultrasound technology contours perfectly to the skin.



User Manual and Treatment Guidelines

Please read this User Manual before using your Ultrasound



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Introduction

Welcome to the Med-Fit Ultra-Form Beauty Ultrasound device, designed and manufactured using advanced digital signal processing. The result is a unit with excellent versatility based on simplicity of operation.

This manual has been written for the owners and operators of the Med-Fit Ultra-Form Ultrasound. It contains general instructions for operation, precautionary instructions and maintenance recommendations. In order to obtain maximum life and efficiency from your Med-Fit Ultra-Form Ultrasound and to assist in the proper operation of the unit, read and understand this manual thoroughly and become familiar with the controls on the panel as well as the accessories that come with the unit before operation of the unit.

The specifications put forth in this manual were in effect at the time of publication.

Liability Disclaimer

Before administering any treatment to yourself or a patient please read this user manual and operating instructions within the manual. Please read all precautionary instructions listed below.

Techniques of Applications

The Med-Fit Ultra-Form Beauty Home Ultrasound

The soft polymer ultrasound head makes this ideal for facial applications and treats all contours of the skin, as the ultrasound treatment is more even due to what is called far-field applications. This type of treatment is not possible with a standard ultrasound device with a solid surface.

Functions

- Plused 3MHz ultrasound - ideal for facial and skin tightening.
- Deep cleansing
- High-frequency micro-vibration accelerates the composition of subcutaneous fat.
- Ultrasound tightening has a physiochemical effect, which can promote collagen synthesis.
- Improves cell permeability

Red Light Therapy

Red light therapy with a wavelength of 622nm can stimulate cell activity and help to reduce wrinkles.

Blue Light Therapy

Blue light therapy 467nm wavelength can adjust the secretion of skin and is ideal for skin spots and acne.

Techniques of Applications

Methods of Soundwave Transmission

1. Move transducer in either a circular or stroking pattern.
2. Each circle / stroke should overlap the previous by ½.
3. **Slow and deliberate (moving the soundhead approximately 4 cm per second).**

Preparation Before Treatment

Remove makeup and grease before using this device. When the device is contaminated by any dirt or grease, please wipe it clean with soft wet cloth. Please read this manual carefully before use.

Skin Type / Suggested Treatment Time

Treatment Step	Normal Skin	Dry Skin	Oily Skin	Sensitive Skin	Time
Face	5 Minutes	8 Minutes	5 Minutes	3 Minutes	10 Minutes
Body	10 Minutes	15 Minutes	10 Minutes	6 Minutes	20 Minutes

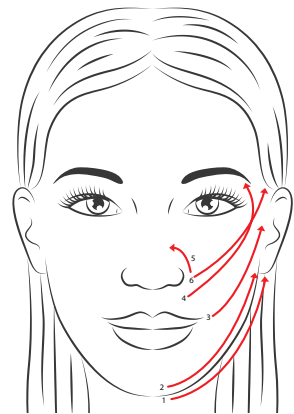
It is advisable to do the treatment every day for normal, dry and aged skin, every 3-4 days for sensitive and oily skin. After a complete month of treatments, repeat treatments once or twice a week.

Ultrasound Sensation and Tolerance

It is important to remember that everyone's tolerance to heat is different, and thus ultrasound intensity should always be adjusted to the correct level. **You should not feel warmth during the treatment as ultrasound is absorbed deep inside the tissues and surrounding underlying structures.** If you feel a deep aching sensation during the treatment, stop immediately.

Treatment Directions

- Before using the ultrasound device please clean the areas to be treated.
- Press the On/Off button to turn on your Ultrasound
- For facial care: Move treatment around your face in circular movements following the formation of the muscles. See illustrations for direction.
- For body care: Move the treatment head around your body in circular movements following the formation of the muscles see illustrations for the direction.
- Clean your face or body with warm water.



Achieve best treatment results

To achieve best results, it is advised to follow the below treatment motions. Eye area Following the bone structure around the eye, start under the eye and move up around the eye, holding firmly just under the eyebrow.

Smooth smile line

Start just under the nose, move to the smile line and hold and then move straight upward and outward to the temple and hold.

Firm Jowls

Start in the middle of the chin, below your lips, move up to the jowl line and hold and then continue in an upward and outward motion to the edge of your face in front of your ear.

Smooth forehead

Start at the bridge of your nose, move the instrument up to your "thinker lines" and hold, then continue on to your hairline. Move across the forehead using these same movements.

Calm Puffiness

Hold the instruments at a 90° angle on the side of your nose and then move to the middle of your throat. Move upward to the jaw line, hold for a few seconds glide the unit back down to the starting position and then move upward and outward, holding each time at the jaw line, and then returning to the hollow of the throat.

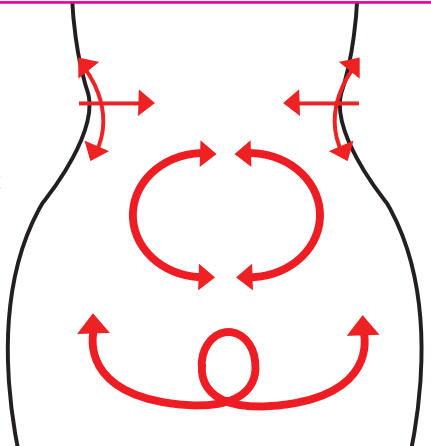
Treatment for waist and abdomen
To lose weight and retain shape

Waist

1. Glide up and down parallel to the structure of waist muscles
2. Glide from outside inwards to the centre of the waist

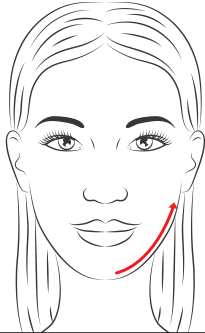
Abdomen

1. Draw a circle around the belly button
2. Glide on your abdomen as if you are big circles

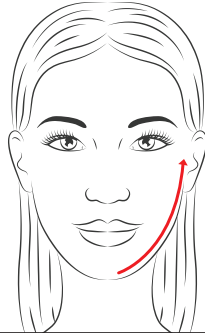


Basic methods of care

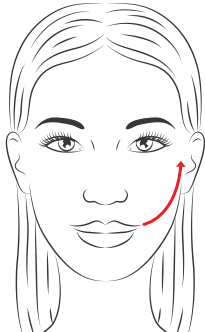
1. Along indicated route from jaw to root of your ear



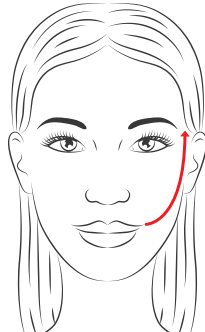
2. Along indicated route from jaw to the front of your ear



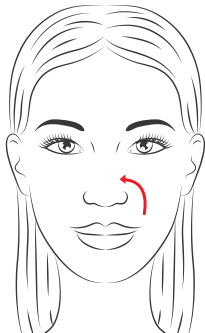
3. Along indicated route from the corner of mouth to the top of your ear



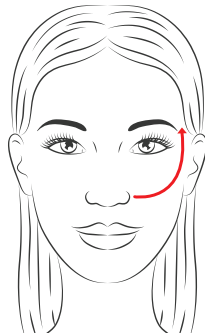
4. Along indicated route from the bottom of nose towards the area near your eyebrow



5. Along indicated route caring both sides of your nose (nose wing)



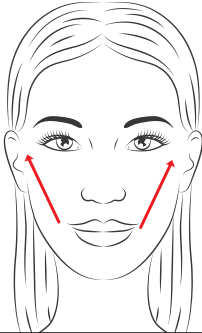
6. Along indicated route from nose towards the area near temple



Basic methods of care

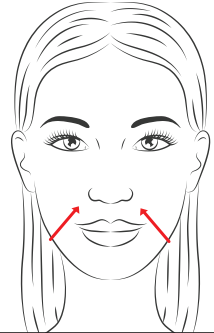
Tighten the face

Operation from the corner of mouth towards the area near eyes



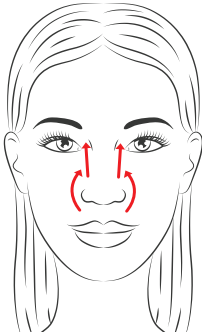
Operation to pull up the end of mouth

Operation from the corner of mouth in upward motion



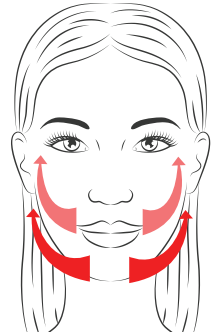
About T position caring

Up and down your nose for one or two minutes



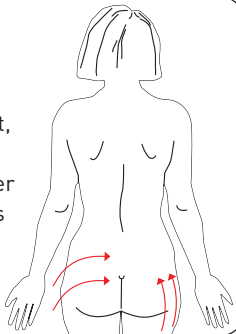
1. Move slowly from the drink behind ear within 5 seconds

2. Move from down to up, left to right geometrically

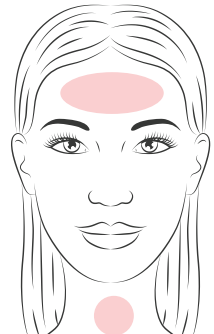


Tighten buttocks

Glide from lower part to upper part, from outside towards the center of the buttocks as indicated



Do not use on your forehead, eye and throat



Charging your Ultrasound

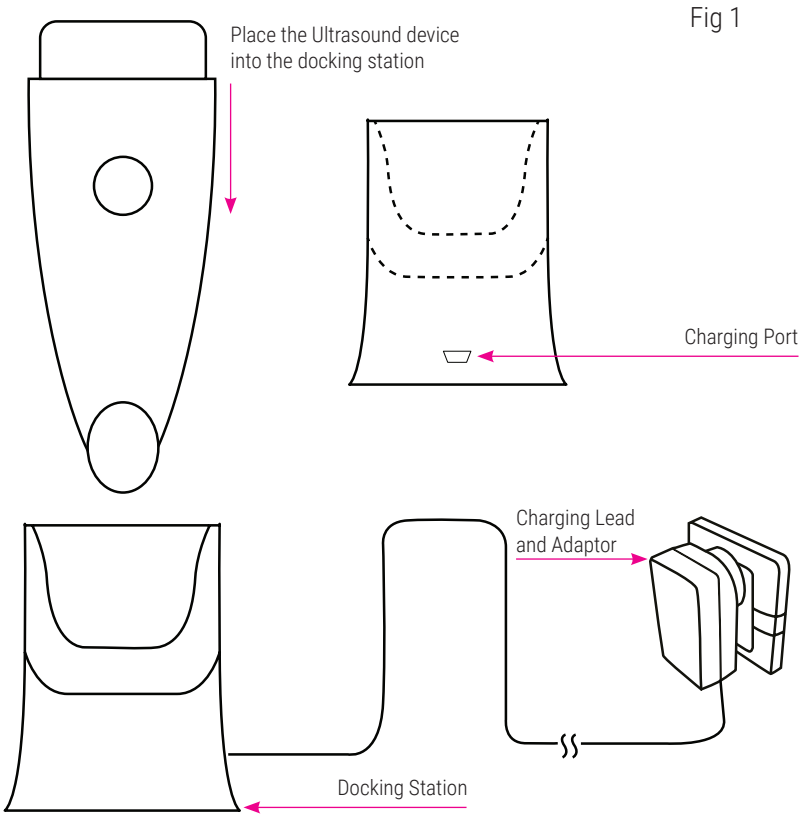
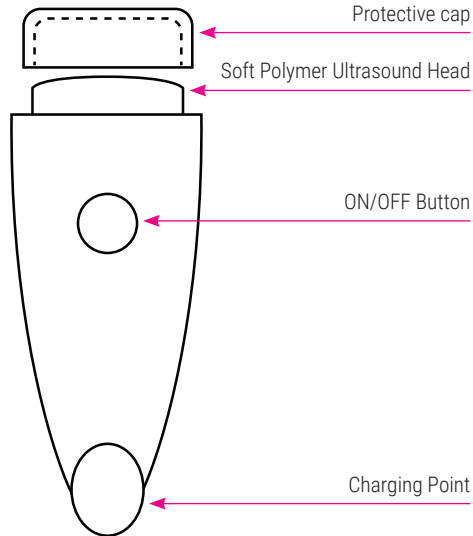


Fig 1

Before using your Ultrasound please charge before use.

1. Place the Ultrasound into the charging docking station with the ON/OFF button facing forward.
2. Attach the USB cable to the charging adaptor and also to the back of the docking station as shown in Fig.1.
3. Place on charge for approximately 3 hours or until the flashing red light turns solid blue. Which indicates the battery is fully charged.

Instructions for use



Operating modes

1. 3 MHz Pulsed Ultrasound only
2. 3 MHz Pulsed Ultrasound with Red Light Therapy
3. 3 MHz Pulsed Ultrasound with Blue Light Therapy

Using your Ultrasound

To turn on the ultrasound press and hold the ON/OFF button for approximately 2 seconds the ultrasound will start in Mode 1 and pulsed ultrasound sensation will be noticed whilst holding your device, please note this is quite normal.

A second quick press of the ON/OFF button changes the ultrasound to Mode 2 and the ultrasound head will glow Red. A further quick press of the ON/OFF button changes the ultrasound head to Mode 3 the ultrasound head will glow Blue.

A further quick press of the button takes you back to Mode 1.

To turn off the device hold down the ON/OFF button for 2 seconds.

1. Foreword

1.1 General

This manual has been written for the users of Med-Fit Ultra-Form Beauty Ultrasound. It contains general information on the operation, precautionary practices, and maintenance information of the device. In order to maximise the use, efficiency, and life of the device, please read the manual thoroughly and become familiar with the controls, as well as the accessories before operating the device.

Pay attention to the following before using the device:

1. Keep yourself informed of the contraindications.
2. The device may not be used in close proximity (i.e. less than 2 Metres) to shortwave equipment.
3. The device may not be used in so-called "wet rooms" (hydrotherapy rooms).
4. The device can be used at home. And the patient is an intended operator.

The manufacturer cannot be held responsible for the results of using this apparatus for any purposes other than those described in these operating instructions.

1.2 Therapy possibilities

Med-Fit Ultra-Form Beauty Ultrasound is a therapy apparatus that offers ultrasound therapy. Pain effects the quality and enjoyment of life, especially for those who suffer chronic pain. The applicator has a radiant surface of 4.0cm² and frequency of 3MHz.

Treatment time

Treatment time is generally between 5 and 10 minutes. Never treat over 15 minutes regardless of treatment area.

1.3 Applicator

The ultrasound applicator for Med-Fit Ultra-Form Beauty Ultrasound has one-frequency head. This applicator can now supply 3MHz ultrasound. The head has excellent beam characteristics, fully meeting the requirements of the existing standards. The excellent beam characteristics, ergonomic design and effective contact control of the single-frequency applicator make optimal treatment possible.

2. Safety Precautions

2.1 Precautionary definitions

The precautionary instructions found in this section and throughout this manual are indicated by specific symbols. Understand these symbols and their definitions before operating this equipment. The definitions of these symbols are as follows:

**CAUTION:**

Text with a "CAUTION" indicator symbol will explain possible safety infractions that could have the potential to cause minor to moderate injury to an individual or damage to equipment.

**WARNING:**

Text with a "WARNING" indicator will explain possible safety infractions that will potentially cause serious injury to an individual and/or equipment damage.

**DANGER:**

Text with a "DANGER" indicator will explain possible safety infractions that are imminently hazardous situations that could result in death or serious injury.

**2.2 Caution****CAUTION:**

1. Read, understand, and practice the precautionary and operating instructions. Know the limitations and hazards associated with using any ultrasound device. Observe the precautionary and operational decals placed on the unit.
2. Keep informed of the contraindications.
3. Do not operate the device when connected to any other medical device.
4. Do not operate this device in an environment where other devices used, intentionally radiate electromagnetic energy in an unshielded manner.
5. Ultrasound should be routinely checked before each use to ensure that all controls function normally.
Check intensity control – make sure it properly adjusts the intensity of the ultrasonic power output in a stable manner.
Check treatment time control – make sure it terminates ultrasonic power output when the timer counts down to zero.
6. Do not use sharp objects such as pencil point or ballpoint pen to operate the buttons on the control panel.
7. Handle the ultrasound applicator with care. Inappropriate handling of the Ultrasound applicator may adversely affect its characteristics.
8. Before each use, inspect the Ultrasound Applicator for cracks to avoid the ingress of conductive fluid.
9. Inspect Applicator cables and associated connectors before each use.
10. The ultrasound therapy control unit is not designed to prevent the ingress of water or liquids. Ingress of water or liquids may cause malfunction of internal components of the device and therefore create risk of injury to the patient.
11. Caution should be used with patients suspected or diagnosed with epilepsy and with patients suspected or diagnosed with heart problems.

12. Caution should be used in the presence of the following:
 - When there is a tendency to hemorrhage following acute trauma or fracture.
 - Following recent surgical procedures when muscle contraction may disrupt the healing process.
 - Menstruating or pregnant uterus.
 - Over areas of the skin which lack normal sensation.
13. The device should be kept out of the reach of children. Avoid inhalation or swallowing of small parts.
And the cable may cause strangulation.
14. Do not use in the bath or shower. The device should not be submerged in water or other liquids as this will possibly damage.



2.3 Warning

WARNING

To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

1. Care must be taken when operating this equipment around other equipment.
2. Potential electromagnetic or other interference may occur to either this device or to the other equipment, or both. Minimise this interference by not using this device in conjunction with the other equipment.
3. This device may not be used in close proximity (i.e. less than 2 Metres) to short-wave equipment.
4. Avoid exposure to direct sunlight, rain, excessive dust, moisture, mechanical vibrations and shocks.
5. This device may not be used in so-called "wet rooms" (hydrotherapy rooms).
6. Before administering any treatment, you should become acquainted with the operating procedures.
7. Do not use solvents to clean this device.
8. Do not use this device if it is damaged in any way.
9. This device must only be serviced, repaired and opened by individuals at authorised sales centers.
10. Dispose of this device in accordance with local regulations.
11. Not to be used while pregnant.
12. Avoid use over or near bone growth centers until bone growth is complete.
13. Treatment time should not exceed 30 minutes a day.
14. Do not use a mobile phone while operating the device.
15. Patients with sensitivity to the coupling gel should use caution when using the device.
16. Always keep the ultrasound head in constant motion.
17. Consult your doctor or physiotherapist if you are in any doubt whatsoever.
18. Disassembly and modification of equipment is prohibited.
19. If you have had medical or physical treatment, consult with your physician before using this device.

2.4 Danger

DANGER:

Patients with an implanted neurostimulation device must not be treated with or be in close proximity to any shortwave diathermy, microwave diathermy, therapeutic ultrasound diathermy, or laser diathermy anywhere on their body. Energy from diathermy (shortwave, microwave, ultrasound, and laser) can be transferred through the implanted neurostimulation system, can cause tissue damage, and can result in severe injury or death. Injury, damage, or death can occur during diathermy therapy even if the implanted neurostimulation system is turned "off".



2.5 Adverse reaction

- Skin irritation and inflammation are potential adverse reactions.
- Perform the following procedures to avoid the negative effects of ultrasound therapy.

Applicator Movement

If movement of the applicator is too slow, the patient may feel periosteal pain characterized by a deep ache or pain. If motion is too fast, or if the applicator does not maintain good contact with the skin, the therapeutic effect of the sound waves will be reduced and the applicator may overheat.

Patient Susceptibility

Some patients are more sensitive to ultrasound output and may experience a reaction similar to a heat rash. Be sure to inspect the treatment area during and following treatment, and discontinue if an adverse reaction occurs.

3. Intended Use

Ultra-Form is a professional multi-treatment device that uses a unique patented soft 3MHz head. Perfectly adapting to your body's curves and angles, the soft layer of gel sits directly over the ultrasound transducer and provides the ultimate transmission to the treatment area, Due to its unique design this Ultrasound is perfect for the treatment of the face.

4. Contraindications

1. Do not use over or near bone growth centers (epiphyseal discs) until bone growth is complete.
2. Do not use over the eyes.
3. Do not use over the heart.
4. Do not use over brain tissue.
5. Do not use on patients with demand type cardiac pacemakers.
6. Do not use on someone who is pregnant.
7. Do not use on patients post laminectomy.
8. Do not use if the patient has an endoprosthesis / metal implants.
9. Do not use on patients with implanted neurostimulation systems.
10. Do not use to treat malignancies nor in the region where tumors or malignant tumors are present.
11. Do not use over ischemic tissues in patients with vascular disease where the blood supply would be unable to follow the increase in metabolic demand.
12. Do not use over the carotid sinus nerves or arteries, laryngeal or pharyngeal muscles.
13. Do not use over an area of the spinal cord following a laminectomy.

5. Installation

5.1 Before use

Inspect the device for damages or missing parts and/or accessories.


The case contains the following accessories.

Part	Quantity
Portable Ultrasound Device	1
Operating instructions	1
Adapter AC 100-240V 50/60Hz,0.6-0.2A	1

5.2 Connection

- Prior to connecting this device to the power supply, verify that the voltage and frequency stated on the rating label match the available power supply.
- The power adapter is a part of the supply circuit on which the device's safety depends on.

CAUTION:

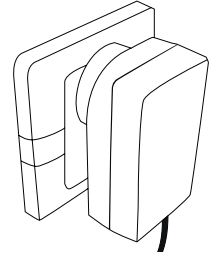
 It is not permitted to connect Ultra-Form to any other type of adapter other than adapter we provide.

5.3 Connection of the power adapter

- Connect the power adapter to the device's power cord.
- Connect the power adapter to the wall outlet.

5.4 Disconnect from power adaptor

- Power off the device by pressing the On/Off button for approximately 3 seconds
- Remove the power adaptor from the wall outlet.



6. Operation

6.1 Treatments

- Ensure there is no contraindications to treatment. Clean the skin of the treatment area with soap or body wipes.

During treatment

- Move the ultrasound-head in a circular motion. The area treated should be two times the diameter of the applicator.
- If experiencing poor transmission of ultrasound energy, it is advised to add more gel or reposition the ultrasound-head.

CAUTION:

The ultrasound-head should be moved in a slow, flat, circular motion over the skin surface of the treatment area. Apply the sound head evenly (in time) over the treatment area, not too slow to avoid inducing heat; not too fast to prevent bad contact which would reduce the effectiveness of the treatment.

After treatment

- Clean the contact surface immediately after each treatment.
- The treatment heads can be disinfected using a cloth moistened with 70% alcohol.

6.2 Switch on the device

Connect the power adapter according to section 5.3. Press the On/Off for 2 to 3 seconds to switch on.

6.2.1 Start treatment

- Press treatment time button will start ultrasound treatment,
- Move the treatment head in a flat, slow, circular motion over the skin surface of the treatment area.

6.2.2 Turn off device


After treatment press the On/Off button for 2 to 3 seconds to switch off the device.

7. Maintenance

7.1 Cleaning of the device

Switch off the device and disconnect it from the power supply. The device can be cleaned with a damp cloth. Use lukewarm water and a non-abrasive liquid household cleaner (no abrasive, no alcohol content solution). If a more sterile cleaning is needed, use a cloth moistened with an antimicrobial cleaner.

CAUTION:

 Do not submerge the device in liquids. Should the unit accidentally become submerged, contact the dealer or Authorised Service center immediately.

Do not attempt to use the device that has been submerged in any liquid substrate until inspected and tested by a Service Technician Certified by an Authorised Service center.

Do not allow liquids to enter the ventilation holes.

7.2 Cleaning of the applicator

The applicator should be regularly inspected for damage, e.g. hairline cracks, which could allow the penetration of liquids. Clean the contact surface immediately after each treatment. Make sure that no ultrasound gel remains on the applicator. We further recommend cleaning the head and cable daily, using lukewarm water. The applicator can be disinfected using a cloth moistened with 70% alcohol.

7.3 Cleaning the wire and adapter

Periodically wipe the wire and adapter clean with a cloth dampened with a mild soap solution, and then gently wipe them dry. Use of rubbing alcohol on the wire will damage the insulation and dramatically shorten their life.

8. Storage

For a prolonged pause in treatment, place the unit with the adapter and manual back in the case. Store it in a dry room and protect it against heat, sunshine and moisture. Store the machine in a cool, well ventilated place according to the storage condition as described earlier in this manual. Never place any heavy objects on the machine.

9. Disposal

Please dispose of the device in accordance with the legal obligation in your area.



10. Troubleshooting

NOTE: If the following measures fail to alleviate the problem, please call your authorised supplier.

Problem	Possible causes	Possible solution
Device fails to light up	Adapter contact failure	Ensure adapter is connected. Check the following contacts: <ul style="list-style-type: none">• All contacts are in place• All contacts are not broken
Incomplete display	Circuit fault	Contact authorised agency or supplier
Device can not switch on	Circuit fault	Contact authorised agency or supplier

11. Warranty

The following warranty terms apply:

1. The service life and warranty period is two years from date of purchase. In case of a warranty claim, the date of purchase has to be proven by means of the sales receipt or invoice.
2. Defects in material or workmanship will be removed free of charge within the warranty period.
3. Repairs completed under warranty do not extend the warranty period either for the unit or for the replacement parts.
4. The following is excluded from the warranty:
All damage which is due to repairing or tampering by customer or unauthorised third parties.

12. Specifications and Technical Data

General information

Adapter Input	AC100-240V,50/60Hz,0.6-0.2A
Output	DC15V/0.4A
Safety class	Class 2a, type BF
Dimensions	172.4mm(L)*52.6mm(W)*44.5(H)
Material of treatment head	Aluminum

Technical data of ultrasonic

Frequency	3MHz±10%
Intensity level	
Pulsed Ultrasound Only	0.54W±20%
Pulsed Ultrasound Combined with Red Light	0.64W±20%
Pulsed Ultrasound Combined with Blue Light	0.84W±20%
Pulse duration	L1 2ms L2 5ms
Duty factor	L1 20% L2 50% L3 100%
Effective radiating area	4cm ² ±10%
BNR(max)	5.0
Beam type	Collimated
Waveform	Pulsed

Environmental conditions

Operating conditions	Temperature:5~40 Relative humidity:10%~85% Atmospheric pressure:700~1060hPa
Storage and transportation conditions	Temperature:-20~55 Relative humidity:10%~93% Atmospheric pressure:700~1060hPa

13. EMC Information

Important information regarding Electromagnetic Compatibility (EMC)

- Use of accessories other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
- Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Table 1: Guidance and manufacturer's declaration electromagnetic Emissions

Declaration - electromagnetic emission		
The UT1053 device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Group 1	The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations /flicker emissions IEC 61000-3-2	Complies	

Table 2: Guidance and manufacturer's declaration electromagnetic Emissions

Guidance and manufacturer's declaration – Electromagnetic immunity			
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000- 4-2	±8kV contact ±15kV air	±8kV contact ±15kV air	Floors should be wood, concrete or ceramic tile. The floor are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient / burst IEC 61000-4-4	± 2 kV for power supply lines ± 1kV for input/ output lines	± 2 kV for power supply lines ± 1kV for input/ output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to lines, ± 2 kV line(s) to earth	± 1 kV line(s) to lines, ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 sec	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the use of the device requires continued operation during mains power interruptions, it is recommended that the device be powered from an uninterruptible power supply.
Power frequency (50/60 Hz) magnetic field to IEC 61000-4-8	30A /m	30A /m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital
Note: UT is the a.c. mains voltage prior to application of the test level.			

Table 3: Guidance and manufacturer's declaration electromagnetic Emissions


Guidance and manufacturer's declaration – Electromagnetic interference immunity			
The device is intended for use in. the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC61000- 4-6	3 Vrms 150kHz to 80 MHz	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1.2 \sqrt{P}$, 150 KHz to 80 MHz $d = 1.2 \sqrt{P}$, 80MHz to 800MHz $d = 2.3 \sqrt{P}$, 800MHz to 2.7GHz Where P is the maximum output power rating of the transmitter In watts (W) according to the. Transmitter manufacturer and d is the recommended separation distance in Metres (m).Field strengths from fixed RF transmitters, as determined by an electromagnetic site surveya, should be less than the compliance level in each frequency rangeb, Interference may occur In the vicinity of equipment marked with the following symbol: 
Radiated RF IEC61000- 4-3	10V/m 80 MHz to 2.7 GHz	10 V/m	
<p>NOTE 1 : At 80 MHz ends 800 MHz. the higher frequency range applies.</p> <p>NOTE 2 : These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p> <p>a Field strengths from fixed transmitters, such as base stations for radio(cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the UT053 device is used exceeds the applicable RF compliance level above, should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the</p> <p>b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.</p>			

Table 4: Recommended Separation Distance Between Portable and Mobile RF Communications Equipment and the Device

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device, as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitterm		
	0.15 MHz to 80 MHz d= 1.2 √P	80 MHz to 800 MHz d= 1.2 √P	80 MHz to 2.7 GHz d= 2.3√P
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in Metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

14. Description of Symbols

CE 0197 Complies with the European Medical Device Directive (93/42/EEC) and amended by directive 2007/47/EC requirements. Notified body TÜV Rheinland (CE0197)

IPX7 Only for Ultrasonic head: Protected against the effects of temporary immersion in water



Keep dry

The first number 2: Protected against solid foreign objects of 12,5 mm Φ and greater. The second number: Protected against vertically falling water drops when enclosure tilted up to 15°. Vertically falling drops shall have no harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical.

IP22



Class II symbol



Type BF applied part



Please refer to instruction manual



Disposal in accordance with Directive 2012/19/EU(WEEE)



Date of manufacture



The name and the address of the manufacturer



Serial number.



The name and the address of the Authorised EC-representative in Europe



This way up



Fragile, handle with care



Stacking limit by number



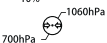
Recyclable Symbol



Transportation and storage temperature from -20°C to 55°C



Transportation and storage humidity limits from 10% to 93%



Transportation and storage atmospheric pressure limits from 700 hPa to 1060 hPa

This manual is valid for the Ultra-Form Ultrasound. This user manual is published by Tens Products Ltd.
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