

# ULTRA WAVE PRO 1 & 3 MHz

## DUAL FREQUENCY ULTRASOUND THERAPY DEVICE

### USER MANUAL

Model: UWP-13



Dual Frequency  
1 MHz & 3 MHz



Deep & Superficial  
Healing



Touch Screen  
Interface



Professional Therapy  
System for Clinics



Safe, Effective &  
Reliable



#### TABLE OF CONTENTS

1. Introduction .....	02
2. Indications for Use .....	02
3. Contraindications .....	02
4. Safety Instructions .....	03
5. Product Overview .....	04
6. Technical Specifications .....	05
7. Installation .....	06
8. Operating Instructions .....	07
9. Treatment Guidelines .....	09
10. Maintenance & Cleaning .....	11
11. Troubleshooting Guide .....	12
12. Warranty Information .....	13



#### IMPORTANT



Read this user manual carefully  
before using the device.  
Keep it for future reference.



Use the device only as directed  
in this manual. Improper use may  
cause injury or ineffective  
treatment.



Only qualified healthcare  
professionals should operate  
this device.



Ensure regular maintenance for  
safe and effective performance.

#### SYMBOLS & MEANINGS



Caution / Warning



Refer to User Manual



Type BF Applied Part



Class II Equipment



Manufacturer



Serial Number



Power On / Off



CE Marking



# 02 INTRODUCTION

## INTRODUCTION

Ultra Wave Pro 1 & 3 MHz is an advanced dual frequency ultrasound therapy device designed to deliver both deep and superficial tissue treatment.

It uses high-frequency sound waves (ultrasound) that penetrate the tissues, producing mechanical and thermal effects which help in pain relief, inflammation reduction, and acceleration of natural healing processes.

The device is user-friendly, safe, and effective, making it suitable for a wide range of clinical conditions and professional use.



-   
**Dual Frequency**  
 1 MHz & 3 MHz
-   
**Touch Screen**  
 Interface
-   
**Safe, Effective**  
 & Reliable
-   
**Professional**  
 Therapy System

- ✓ **Dual Frequency (1 MHz & 3 MHz):** Suitable for deep tissue (1 MHz) and superficial tissue (3 MHz) treatments.
- ✓ **Touch Screen Interface:** Intuitive touch screen for easy parameter selection and operation.
- ✓ **Continuous & Pulsed Modes:** Provides flexibility to choose the appropriate mode as per treatment requirements.
- ✓ **Adjustable Parameters:** Intensity and treatment time can be easily adjusted for personalized therapy.
- ✓ **Professional Grade Output:** Stable and consistent output for maximum clinical effectiveness.
- ✓ **Ergonomic Probes:** Lightweight, durable and easy to handle probes for comfortable use.
- ✓ **Built-in Safety Features:** Ensures safe operation for both patient and clinician.

## INDICATIONS OF USE

Ultra Wave Pro 1 & 3 MHz is indicated for the management and relief of various acute and chronic musculoskeletal conditions, including but not limited to:

- |  |  |   |  |   |
|--|--|---|--|---|
| <br>Muscle Pain     | <br>Joint Stiffness | <br>Tendinitis           | <br>Sports Injuries               | <br>Frozen Shoulder                        |
| <br>Ligament Sprain | <br>Low Back Pain   | <br>Soft Tissue Injuries | <br>Post-operative Rehabilitation | <br>Improvement of Local Blood Circulation |

## CONTRAINDICATIONS

Do not use the device in the following conditions:

- ✗ Over areas of active cancer or malignant tumors
- ✗ Over the eyes, brain, spinal cord, or gonads
- ✗ On patients with a pacemaker or any implanted electronic device
- ✗ Over fractured bone until the acute stage has passed
- ✗ On pregnant women, especially over the abdominal, uterine or lumbar region
- ✗ Over metal implants (caution: use with medical advice)
- ✗ Over open wounds, infected areas or skin rashes
- ✗ On patients with thrombophlebitis or acute deep vein thrombosis
- ✗ Over areas with impaired sensation or numbness
- ✗ On patients with severe cardiac conditions without medical supervision



### NOTE:

Always follow clinical judgment and use the device only under the guidance of a qualified healthcare professional. Ensure patient safety and follow all safety instructions mentioned in this manual.



# 03

# SAFETY INSTRUCTIONS



Please read all safety instructions carefully before using the Ultra Wave Pro 1 & 3 MHz. Follow these guidelines to ensure safe operation for both patient and operator.



## GENERAL SAFETY INSTRUCTIONS



### USE BY QUALIFIED PROFESSIONALS ONLY

This device must be used only by trained and qualified healthcare professionals with proper knowledge of ultrasound therapy.



### ALWAYS USE ULTRASOUND GEL

Always apply adequate ultrasound gel between the treatment head and patient's skin. Do not use the device without gel as it may cause discomfort or burns.



### MAINTAIN CONSTANT MOVEMENT

Keep the treatment head in constant motion over the treatment area. Do not keep the head stationary at one point to avoid tissue heating.



### AVOID BONY PROMINENCES

Do not apply the ultrasound head directly over bony prominences such as the spine, skull, ribs, or joints with minimal soft tissue coverage.



### RESPECT RECOMMENDED TREATMENT TIME

Do not exceed the recommended treatment time and intensity for any condition to prevent tissue irritation or thermal injury.



### CHECK DEVICE AND CABLES BEFORE USE

Inspect the device, probes, cables, and connectors before each use. Do not use if any part is damaged.



### KEEP AWAY FROM LIQUIDS

Do not expose the device to water or any liquid. Keep the device and accessories dry at all times.



### ENSURE PROPER VENTILATION

Place the device on a flat surface with adequate air circulation. Do not block the ventilation openings.



### TURN OFF AFTER USE

Switch off the device and unplug the power cord after use. Store the device safely when not in use.



## IMPORTANT WARNINGS



Do not use on patients with pacemakers or implanted electronic devices.



Do not use over areas of active cancer or malignant tumors.



Do not use on pregnant women, especially over the abdominal, uterine or lumbar region.



Do not apply over the eyes, brain, spinal cord, or gonads.



Do not apply over fractured bone until the acute stage has passed.



Use with caution over metal implants. Follow medical advice.



Do not use on patients with thrombophlebitis or acute deep vein thrombosis.



Do not use on patients with severe cardiac conditions without medical supervision.



## NOTE

Report any unusual symptoms (burning sensation, increased pain, redness, or discomfort) to the clinician immediately. Discontinue use if such symptoms occur.

## PATIENT AND DEVICE CARE



Clean the treatment head after each use with a soft, damp cloth.



Do not use harsh chemicals, alcohol, or abrasive cleaners.



Store the probe in its holder to prevent damage.



Keep the device in a cool, dry place away from direct sunlight and heat.



Keep out of reach of children and pets.



Refer to this manual whenever in doubt about operation.



# 04

# PRODUCT OVERVIEW

Ultra Wave Pro 1 & 3 MHz is an advanced dual frequency ultrasound therapy device designed to deliver effective, safe and reliable treatment for a wide range of clinical conditions.

## DEVICE OVERVIEW

The device integrates modern technology with user-friendly features to ensure maximum therapeutic effectiveness and ease of operation.

## PARTS IDENTIFICATION

- 1** **Ultrasound Probe (1 MHz / 3 MHz)**  
Ergonomic treatment head available in dual frequencies for deep and superficial tissue therapy.
- 2** **Probe Holder**  
Safe and convenient holder to keep the probes when not in use.
- 3** **Touch Screen Display**  
High resolution touch screen for easy control and parameter selection.
- 4** **Main Unit**  
Compact and robust design for stable and reliable performance.
- 5** **Ultrasound Probe (1 MHz / 3 MHz)**  
Second treatment head for dual frequency therapy.
- 6** **Probe Cable**  
Durable and flexible cable ensures easy movement during treatment.
- 7** **Output Socket (LEFT)**  
Connection port for left probe.
- 8** **Output Socket (RIGHT)**  
Connection port for right probe.



## REAR VIEW



- 1** **Power Switch**  
ON / OFF switch to operate the device.
- 2** **Fuse Holder**  
Protects the device from electrical surges.
- 3** **Power Socket**  
Socket for power cable connection.
- 4** **Ventilation Slots**  
Designed for proper air circulation to keep the device cool and safe.
- 5** **Side Stand**  
Side mounted stand for holding the Ultrasonic Handle 1 & 3 MHz

## BOTTOM / SIDE VIEW (VENTILATION)



**VENTILATION DESIGN**

The ventilation slots on the top and sides are designed to ensure proper air flow inside the device.

Do not block or cover the ventilation slots during use.

## WHAT'S IN THE BOX



**NOTE:** Inspect all components carefully. If any item is missing or damaged, contact your authorized distributor immediately.



# 05 TECHNICAL SPECIFICATIONS

Ultra Wave Pro 1 & 3 MHz is engineered with advanced technology to deliver safe, effective and consistent ultrasound therapy. The technical specifications ensure reliable performance and optimal treatment outcomes.

## 1 DEVICE SPECIFICATIONS

	Frequency	1 MHz / 3 MHz
	Output Power (Intensity)	0 – 3 W/cm <sup>2</sup>
	Modes	Continuous / Pulsed
	Timer	0 – 30 Minutes
	Display	Touch Screen LCD
	Input Voltage	220V AC / 50Hz
	Power Consumption	≤ 50 VA
	Fuse Rating	T2AL 250V
	Control	Microprocessor Controlled
	Programs	Pre-programmed & Manual Mode

## 3 PHYSICAL SPECIFICATIONS

	Main Unit Dimensions (L x W x H)	320 x 250 x 120 mm
	Net Weight (Main Unit)	2.5 kg (Approx.)
	Gross Weight (With Packing)	4.2 kg (Approx.)
	Probe Type	Ergonomic, Waterproof
	Probe Cable Length	1.8 m (Approx.)
	Material (Enclosure)	High Quality ABS Plastic

## 5 ELECTRICAL SAFETY & STANDARDS

- Class II Equipment
- Type BF Applied Part
- Protection against electric shock: Class II, B Type
- EMC Compliance: Complies with IEC 60601-1-2
- Safety Standard: IEC 60601-1



## 2 PERFORMANCE SPECIFICATIONS

Effective Radiating Area (ERA)	5.0 cm <sup>2</sup> ± 20%
Beam Non-uniformity Ratio (BNR)	≤ 6:1
Output Stability	≤ ± 20%
Treatment Intensity Accuracy	± 20%
Intensity Adjustment Range	0 – 3 W/cm <sup>2</sup>
Pulse Frequency (Pulsed Mode)	100 Hz
Duty Cycle (Pulsed Mode)	10%, 20%, 50%, 100%
Treatment Head Type	Flat, Lightweight, Ergonomic
Operating Frequency Tolerance	± 10%

## 4 ENVIRONMENTAL CONDITIONS

	Operating Temperature	10°C to 40°C
	Storage Temperature	-10°C to 55°C
	Relative Humidity	30% to 75% RH (Non-condensing)
	Atmospheric Pressure	700 hPa to 1060 hPa

### NOTE:

- Specifications are subject to change without prior notice.
- The device is intended for use by qualified healthcare professionals only.
- Use only recommended accessories and ultrasound gel for optimal performance.



# 06 INSTALLATION



Follow the steps below to properly install and set up the Ultra Wave Pro 1 & 3 MHz device before using it for treatment.

## 1 UNPACKING AND INSPECTION

- Carefully open the packaging and remove all components.
- Check all items against the packing list.
- Inspect the device, probes, cables and accessories for any visible damage.
- If any part is missing or damaged, contact your authorized distributor immediately.

PACKING LIST	
• Main Unit	1 Nos.
• Ultrasound Probes (1 MHz & 3 MHz)	2 Nos.
• Probe Cables	2 Nos.
• Power Cable	1 Nos.
• Ultrasound Gel (250 ml)	1 Nos.
• User Manual	1 Nos.
• Warranty Card	1 Nos.



## 2 SETTING UP THE DEVICE

**1**

Place the main unit on a flat, stable and dry surface.

**2**

Connect the power cable to the power socket at the rear of the device.

**3**

Plug the power cable into a properly grounded AC power supply (220V AC / 50Hz).

**4**

Switch ON the power using the main power switch. The device will initialize and display the home screen.

**5**

Connect the required probe (1 MHz or 3 MHz) to the corresponding output socket.

## 3 PROBE CONNECTION

- Insert the probe connector into the output socket firmly.
- Match the connector with the socket (do not force).
- Ensure the connector is locked properly.
- The system will automatically detect the connected probe and frequency.

## 4 PREPARATION BEFORE USE

- Apply an adequate amount of ultrasound gel on the treatment area.
- Select the desired frequency, mode, intensity and treatment time as per clinical requirement.
- Verify all settings before starting the treatment.

### CAUTION

- Keep the device away from water, moisture and excessive heat.
- Do not block the ventilation openings.
- Use only the supplied power cable.
- Ensure the power outlet is properly grounded.

- Do not connect or disconnect the probe while the device is ON.
- Handle the probes with care. Do not drop or strike.
- Place the device in an area with adequate air circulation.



### NOTE:

Installation should be performed by qualified personnel only. Ensure all connections are secure before operating the device.



# 07

# OPERATING INSTRUCTIONS



Follow the steps below to operate the Ultra Wave Pro 1 & 3 MHz Ultrasonic Therapy Device safely and effectively.  
**Always read the safety instructions before operating the device.**



## 1 POWER ON

- Connect the device to a 220V AC / 50Hz power supply.
- Switch ON the power button located at the rear side of the device.
- The device will start and the Home Screen will appear.



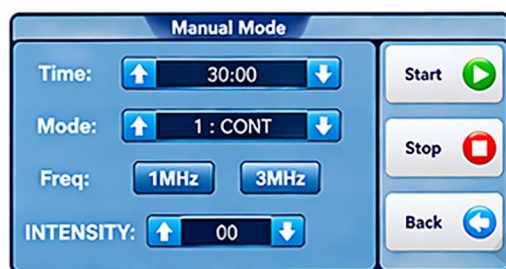
Home Screen

## 2 SELECT OPERATING MODE

The device provides two treatment modes.

### 1 MANUAL MODE

Manual mode allows the therapist to manually adjust all treatment parameters.



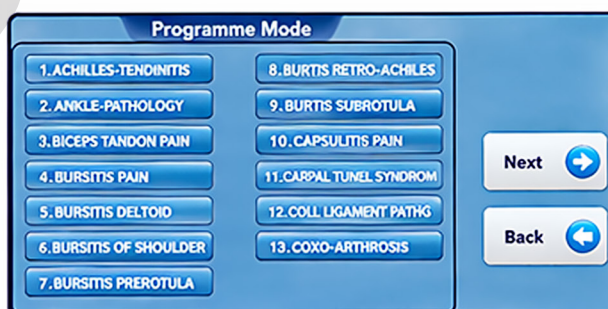
#### TREATMENT MODE OPTIONS (6 MODES)



Select the desired frequency, mode, intensity and time using + / - buttons. Press START to begin treatment.

### 2 PROGRAMME MODE

Programme Mode provides preset therapy programs for common musculoskeletal conditions.



Total 52 Preset Programs

Select the required program and press START. Parameters will be set automatically.

## 3 APPLY ULTRASOUND GEL



- Apply sufficient ultrasound gel on the treatment area and on the probe surface.
- This ensures proper acoustic coupling and effective energy transmission.

## 4 START TREATMENT



- Place the probe gently on the treatment area.
- Press the START button on the screen.
- Move the probe slowly in circular or longitudinal motion.
- Do not keep the probe stationary at one point.

## 5 END TREATMENT

- Press STOP to stop the treatment.
- Remove the probe from the treatment area.
- Clean the probe using a soft cloth.
- Turn OFF the device.



## IMPORTANT TREATMENT NOTES

- ✓ Always use sufficient ultrasound gel.
- ✓ Maintain proper probe movement during treatment.
- ✓ Do not exceed recommended intensity and time.
- ✓ Always follow professional clinical judgment.

## FREQUENCY GUIDE

<b>1 MHz</b>	Is used for deep tissue treatment (joints, muscles, connective tissues).
<b>3 MHz</b>	Is used for superficial tissue treatment (tendons, ligaments, small joints).

**WARNING:** Do not use the probe over bony prominences, eyes or sensitive areas. Stop treatment immediately if the patient feels discomfort or pain. Do not use the device without proper training.



# 08

# OPERATING INSTRUCTIONS (CONTINUED)



Follow these additional operating guidelines to ensure effective treatment outcomes and patient safety.

## 1 TREATMENT TECHNIQUES

Move the probe slowly and constantly over the treatment area using one of the following recommended techniques.

<p><b>LINEAR (LONGITUDINAL)</b></p> <ul style="list-style-type: none"> <li>• Move the probe in parallel lines.</li> <li>• Suitable for large muscle groups.</li> </ul>	<p><b>CIRCULAR</b></p> <ul style="list-style-type: none"> <li>• Move the probe in small or large circles.</li> <li>• Suitable for small joints and localized areas.</li> </ul>	<p><b>SPIRAL</b></p> <ul style="list-style-type: none"> <li>• Move the probe in a spiral pattern.</li> <li>• Suitable for small, localized areas.</li> </ul>	<p><b>POINT (STATIONARY)</b></p> <ul style="list-style-type: none"> <li>• Hold the probe stationary over a specific point.</li> <li>• Use only for short duration.</li> </ul>
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**NOTE:** Do not keep the probe stationary for long periods except when using the point technique. Always keep the probe in motion to avoid tissue heating.

## 2 TREATMENT DURATION GUIDELINES

TREATMENT AREA	RECOMMENDED TIME (MINUTES)
Small Area (e.g., finger, wrist, small joint)	3 – 5
Medium Area (e.g., shoulder, knee)	5 – 10
Large Area (e.g., back, thigh, calf)	10 – 15
Chronic Conditions	7 – 15
Acute Conditions	5 – 10



**NOTE:** Adjust treatment time based on patient tolerance, clinical condition, and professional judgment.

## 3 INTENSITY GUIDELINES

Start with a lower intensity and gradually increase as per patient comfort and treatment response.

**LOW** **HIGH**

- |   |   |  |  |
|---|---|--|--|
| <ul style="list-style-type: none"> <li>• 0.1 – 0.5 W/cm<sup>2</sup><br/>For sensitive patients, acute conditions or superficial treatment.</li> </ul> | <ul style="list-style-type: none"> <li>• 0.5 – 1.0 W/cm<sup>2</sup><br/>For mild to moderate conditions.</li> </ul> | <ul style="list-style-type: none"> <li>• 1.0 – 2.0 W/cm<sup>2</sup><br/>For chronic conditions and deep tissue treatment.</li> </ul> | <ul style="list-style-type: none"> <li>• 2.0 – 3.0 W/cm<sup>2</sup><br/>For severe chronic conditions (use with caution).</li> </ul> |
|---|---|--|--|



### IMPORTANT

- ✓ The patient should feel a mild warmth or tingling sensation during treatment.
- ✓ If the patient feels pain or excessive heat, reduce the intensity.
- ✓ Always communicate with the patient during treatment.

## 4 INDICATORS AND MESSAGES

<p><b>TREATMENT RUNNING</b> Intensity: 1.5 W/cm<sup>2</sup> Time: 08:30 Mode: Continuous</p>	<p><b>Treatment Running Screen</b> Displays selected parameters and remaining time.</p>	<p><b>CHECK PROBE CONNECTION</b></p>	<p><b>Probe Connection Error</b> Ensure the probe is properly connected to the output socket.</p>
<p><b>PAUSE</b> Press START to Continue</p>	<p><b>Pause Screen</b> Treatment is paused. Press START to resume.</p>	<p><b>OVER TEMPERATURE PLEASE WAIT</b></p>	<p><b>Over Temperature Alert</b> The device is overheated. Wait until the device cools down.</p>
<p><b>TREATMENT COMPLETE</b> Thank You</p>	<p><b>Treatment Complete Screen</b> The treatment time is over. Remove the probe.</p>	<p><b>SYSTEM READY</b></p>	<p><b>System Ready</b> Device is ready for operation.</p>

## 5 AFTER TREATMENT

<p>Remove the probe from the treatment area.</p>	<p>Clean the probe and treatment area with a soft, damp cloth.</p>	<p>Remove any remaining ultrasound gel from the patient's skin.</p>	<p>Turn OFF the device using the power switch.</p>	<p>Unplug the power cable from the power outlet.</p>	<p>Store the probes and cables in their designated holders.</p>
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- CAUTION**
- Do not exceed the recommended treatment time and intensity.
  - Monitor the patient throughout the treatment.
  - Discontinue treatment if the patient feels pain, dizziness, or discomfort.



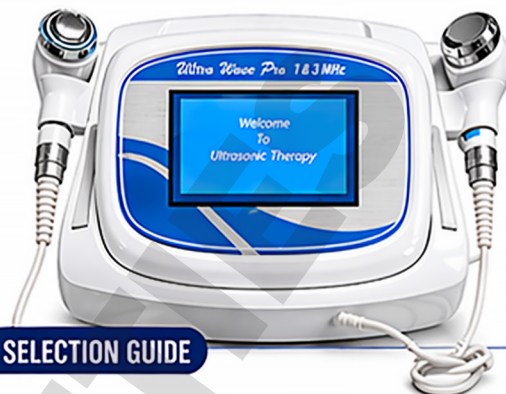
**NOTE:** These operating instructions are for general guidance only. Always follow clinical protocols and use professional judgment for each patient.





# 09 TREATMENT GUIDELINES

These guidelines provide a general reference for using Ultra Wave Pro 1 & 3 MHz for various clinical conditions. Adjust parameters based on individual patient needs, response to treatment and professional judgment.



## 1 GENERAL TREATMENT PRINCIPLES

- ✓ Clean the treatment area and apply sufficient ultrasound gel.
- ✓ Select the appropriate frequency, mode, intensity and treatment time.
- ✓ Keep the probe in constant motion or use stationary technique as required.
- ✓ Maintain full contact of the probe with the skin at all times.
- ✓ Monitor the patient's comfort throughout the treatment.
- ✓ Document treatment parameters and patient response.

## 2 FREQUENCY SELECTION GUIDE

1 MHz

### DEEP TISSUE TREATMENT

- Penetrates deeper into tissues (up to 5 cm)
- Ideal for large joints, chronic conditions and deep muscle injuries
- Example: Low back pain, shoulder pain, knee pain

3 MHz

### SUPERFICIAL TISSUE TREATMENT

- Penetrates superficial tissues (up to 2 cm)
- Ideal for small joints, acute conditions and soft tissue injuries
- Example: Tendinitis, sprains, small joint pain

## 3 CONDITION-WISE TREATMENT RECOMMENDATIONS (GENERAL REFERENCE)

Condition	Frequency	Mode	Intensity (W/cm <sup>2</sup> )	Treatment Time (Minutes)	Technique	Treatment Area Guidance
Acute Pain / Inflammation (e.g., strains, sprains)	3 MHz	Pulsed (10% or 20%)	0.5 – 1.0	5 – 10	Moving	Cover the entire painful area including surrounding tissues.
Chronic Pain / Muscle Spasm (e.g., back pain, spasm)	1 MHz	Continuous	1.0 – 2.0	7 – 15	Moving	Treat along the length of the muscle fibers.
Tendinitis (e.g., shoulder, elbow)	1 MHz	Pulsed (20% or 50%)	0.8 – 1.5	7 – 12	Moving	Include the tendon insertion and surrounding area.
Joint Stiffness / Arthritis (e.g., knee, shoulder)	1 MHz	Continuous	1.0 – 2.0	8 – 15	Moving	Focus on joint capsule and surrounding muscles.
Soft Tissue Healing (e.g., ligament sprain)	3 MHz	Pulsed (20% or 50%)	0.5 – 1.2	5 – 10	Moving	Cover the injured area and progress gradually.
Sports Injuries	1 or 3 MHz*	Pulsed (10% or 20%)	0.5 – 1.5	5 – 12	Moving	Treat based on injury type and tissue depth.

\* Select frequency based on depth of the tissue involved.

## 4 TECHNIQUE METHODS



### Moving Technique

- Keep the probe in slow, continuous motion.
- Prevent heating at one spot.
- Overlap each stroke slightly.



### Stationary (Point) Technique

- Keep the probe stationary on the point.
- Use lower intensity and shorter duration.
- Suitable for small areas.

## 5 TREATMENT FREQUENCY



- Acute conditions: 1–2 times per day or as required.
- Chronic conditions: 2–3 times per week.
- Total sessions: Usually 6–12 sessions depending on condition and response.

## 6 PRECAUTIONS DURING TREATMENT



- Do not apply the probe over bony prominences, eyes, or sensitive areas.
- Keep the probe moving to avoid excessive heating.
- Reduce intensity if the patient feels discomfort.
- Stop treatment if there is any adverse reaction.




**NOTE:** These guidelines are general recommendations. Always use clinical judgment and adjust parameters based on individual patient needs and response to therapy.





# 10 TREATMENT GUIDELINES (CONTINUED)



 These continued guidelines help customize treatment according to tissue depth, patient response and clinical goals for safe and effective outcomes.

## 1 DEPTH OF PENETRATION GUIDE

Select the appropriate frequency based on the depth of tissue to be treated.

Frequency	Penetration Depth*	Best For
1 MHz	Up to 5 cm	Deep tissues, muscles, joints, chronic conditions, large muscle groups
3 MHz	Up to 2 cm	Superficial tissues, acute conditions, small joints, tendon and ligament injuries

\* Penetration depth may vary depending on tissue type and patient.

## 2 INTENSITY SELECTION GUIDE

Use the lowest effective intensity that produces a therapeutic response without discomfort.

Intensity (W/cm <sup>2</sup> )	Patient Sensation	Indications
0.1 – 0.5	Very Mild	Sensitive patients, acute conditions
0.5 – 1.0	Mild Warmth	Mild pain, inflammation, soft tissue injuries
1.0 – 2.0	Moderate Warmth	Chronic pain, muscle spasm, joint stiffness
2.0 – 3.0	Strong Warmth	Severe chronic conditions (use with caution)

Note: If the patient feels sharp pain, reduce the intensity immediately.

## 3 TREATMENT PROGRESSION

Adjust treatment parameters based on patient response over multiple sessions.



Session Phase	Frequency	Intensity	Treatment Time
Initial (1st – 3rd session)	As per condition	Low to Moderate	Shorter duration
Progressive (4th – 8th session)	As per condition	Moderate	Increase gradually
Maintenance (9th session onwards)	As per condition	Moderate	Maintain or reduce

Note: Always re-evaluate the patient and adjust settings accordingly.

## 4 TREATMENT GOALS AND OUTCOMES



### Pain Relief

- Reduce pain and discomfort.



### Inflammation Reduction

- Decrease swelling and promote healing.



### Improved Circulation

- Enhance blood flow and oxygenation.



### Tissue Healing

- Accelerate tissue repair and regeneration.



### Muscle Relaxation

- Reduce muscle spasm and improve flexibility.

## 5 TREATMENT AREA CONSIDERATIONS



- ✓ Ensure full contact of the probe with the treatment area.
- ✓ Use adequate gel to prevent air gaps.
- ✓ Do not stay too long on one spot, keep the probe moving (except in stationary technique).
- ✓ Avoid bony prominences and sensitive areas.
- ✓ For small joints or irregular areas, use lower intensity and shorter duration.
- ✓ Reassess the treatment area regularly for any adverse response.

## 6 TREATMENT INTERVALS



- Acute Conditions: 3 – 5 sessions per week
- Sub-Acute Conditions: 2 – 3 sessions per week
- Chronic Conditions: 1 – 2 sessions per week
- Maintenance Therapy: As needed

Total number of sessions depends on patient response and clinical goals.

## 7 DOCUMENTATION & FOLLOW UP



### Record

Document all treatment parameters, patient response and any changes.



### Evaluate

Assess improvement in pain, function and range of motion regularly.



### Communicate

Maintain open communication with the patient and adjust the plan as needed.



### Review

Review treatment plan periodically to achieve optimal outcomes.



## NOTE:

These are general guidelines. Always use clinical judgment and modify parameters based on individual patient needs, tolerance and treatment goals.





# 11

# TREATMENT GUIDELINES (CONTINUED)



## OPERATING MODES

Ultra Wave Pro 1 & 3 MHz Ultrasonic Therapy Device provides two treatment modes:

- 1 Manual Mode
- 2 Program Mode

Both modes allow clinicians to perform ultrasound therapy based on treatment requirements.

## 1 MANUAL MODE

In Manual Mode, the therapist can manually adjust all treatment parameters according to the patient's condition.

### ADJUSTABLE PARAMETERS

Treatment Time	Adjustable up to 30 minutes
Mode	Select treatment pulse mode (6 Modes available)
Frequency	1 MHz – Deep tissue treatment 3 MHz – Superficial tissue treatment
Intensity	Adjustable intensity level (00 – 30)

### MANUAL MODE TREATMENT OPTIONS

The device provides 6 selectable treatment modes in manual settings:

1  
CONT  
(Continuous)

2  
2T Mode

3  
4T Mode

4  
8T Mode

5  
10T Mode

6  
16T Mode



Intensity Range: 00 – 30  
Time Range: 01:00 to 30:00 minutes

## 2 PROGRAM MODE

In Program Mode, the device provides preset therapy programs for common musculoskeletal conditions.

Frequency Preset

Mode Preset

Intensity Preset

Treatment Time Preset

This allows quick and standardized treatment for different conditions.

### PRESET PROGRAM LIST (TOTAL 52 PROGRAMS)

1 Achilles Tendinitis	19 Femur-Tibial Arthrosis	36 Quadriceps Tendinitis
2 Ankle Pathology	20 Front Rectus Tendinitis	37 Rotula Tendinitis
3 Biceps Tendon Pain	21 Goose Paw Tendinitis	38 Scapular Pain
4 Bursitis Pain	22 Hand Tendinitis	39 Styloid Radial Pain
5 Bursitis Deltoid	23 Hand Tendinitis-2	40 Sural Triceps Pathology
6 Shoulder Bursitis	24 Localized Adiposity	41 Temporomandibular Pain
7 Bursitis Prerotula	25 Lumbago Pain	42 Tendon Pain
8 Retro-Achilles Bursitis	26 Metacarpal Arthrosis	43 Tibia Distal Tendinitis
9 Sub-Rotula Bursitis	27 Metatarsus Pain	44 Tibia Proximal Tendinitis
10 Capsulitis Pain	28 Myalgias Pain	45 Valgus Big Toe Pain
11 Carpal Tunnel Syndrome	29 Myotendon Pathology	46 Back Pain
12 Collateral Ligament Pathology	30 P.E.F.S Pain	47 Knee Pain
13 Coxo-Arthrosis	31 Body Pain	48 Foot Tendinitis
14 Deltoid Pathology	32 Peroneal Tendinitis	49 Lower Back Pain
15 Dupuytren's Disease	33 Plantar Fasciitis	50 Shoulder Pain
16 Epicondylitis Pain	34 Primary Polyarthrosis	51 Hand Pain
17 Epitrochleitis Pain	35 Quadriceps Pathology	52 Elbow Pain
18 Femur-Rotula Arthrosis		

Select the desired program number and press Start. Parameters will be set automatically.

## IMPORTANT NOTE

- Always apply ultrasound gel before starting treatment.
- Maintain proper contact between the probe and the treatment area.
- Incorrect usage or dry contact may affect treatment effectiveness and may damage the probe.



# 12 MAINTENANCE AND CLEANING



Proper maintenance and regular cleaning ensure safe operation, optimal performance and long life of the Ultra Wave Pro 1 & 3 MHz device. Always switch OFF and unplug the device before cleaning or maintenance.



## 1 DAILY CLEANING (AFTER EVERY USE)

### 1 TURN OFF & UNPLUG



Turn OFF the device using the power switch and unplug the power cable from the outlet.

### 2 CLEAN THE PROBES



Wipe the probe head and body with a soft, lint-free cloth dampened with mild soap and water.

### 3 CLEAN THE DEVICE BODY



Use a soft, damp cloth to clean the device body and screen. Do not allow any liquid to enter the unit.

### 4 DRY THOROUGHLY



Wipe all parts with a dry, clean cloth. Ensure the probe surface is completely dry before next use.

### 5 STORE PROPERLY



Place the probes in their designated holders and store the device in a clean, dry place.

## 2 APPROVED CLEANING MATERIALS



### USE

- Soft, lint-free cloth
- Mild soap and water
- 70% Isopropyl Alcohol (for probe head disinfection only)
- Medical grade disinfectant wipes (alcohol based)



### DO NOT USE

- Strong solvents (acetone, benzene, thinner)
- Abrasive or scouring pads
- Bleach or chlorine based cleaners
- Excessive liquid or spray directly on device
- Autoclave or high temperature sterilization

**NOTE:** Use only recommended materials to avoid damage to the device and probes.

## 3 PROBE CARE

- Handle probes with care. Do not drop or apply excessive force.
- Keep the probe surface smooth and free from scratches.
- Inspect the probe cable regularly for any signs of wear or damage.
- Do not bend or twist the cable excessively.
- Always store probes in their holders after use.



## 4 PERIODIC MAINTENANCE

Perform the following checks regularly (recommended monthly):

- ✓ Inspect probes for physical damage or cracks.
- ✓ Check probe cables and connectors for proper connection.
- ✓ Ensure the device body, screen and controls are clean and functioning properly.
- ✓ Verify that the power cord and plug are in good condition.
- ✓ Test the output and intensity using a phantom or as per clinical protocol, if required.
- ✓ If any malfunction is detected, contact authorized service provider.



## 5 STORAGE CONDITIONS

	Temperature 10°C to 40°C
	Relative Humidity 30% to 75% (Non-condensing)
	Keep away from direct sunlight and heat sources.
	Store in a clean, dry and dust-free environment.

Always store the device in its original packing or on a stable surface.

## 6 SERVICE AND SUPPORT

This device contains no user-serviceable parts. Do not open or attempt to repair the device.



For any technical issues or servicing, contact your authorized dealer or service center.

Use only genuine accessories and replacement parts.



### CAUTION

- Always turn OFF and unplug the device before cleaning.
- Do not immerse the device or probes in any liquid.
- Do not allow any liquid to enter the device.
- Ensure all parts are completely dry before next use.



### NOTE:

Regular cleaning and proper maintenance ensure patient safety, reliable performance and extended life of the Ultra Wave Pro 1 & 3 MHz device.





# 13

## TROUBLESHOOTING GUIDANCE



If you encounter any issues while using the Ultra Wave Pro 1 & 3 MHz device, refer to the table below for possible causes and recommended solutions. If a problem persists, contact your authorized dealer or service center.



PROBLEM	POSSIBLE CAUSE	SOLUTION
Device does not turn ON	<ul style="list-style-type: none"> <li>Power cable not connected properly.</li> <li>Power outlet not working.</li> <li>Blown fuse (if applicable).</li> </ul>	<ul style="list-style-type: none"> <li>Ensure the power cable is securely connected.</li> <li>Check the outlet or try another power source.</li> <li>Replace the fuse with the correct rating.</li> </ul>
No display on screen	<ul style="list-style-type: none"> <li>Power connection issue.</li> <li>Internal system error.</li> <li>Screen brightness set too low.</li> </ul>	<ul style="list-style-type: none"> <li>Check power connection and restart the device.</li> <li>Turn OFF and ON the device.</li> <li>Adjust brightness settings from the display menu.</li> </ul>
No output from probe	<ul style="list-style-type: none"> <li>Probe not connected properly.</li> <li>Loose connector or damaged cable.</li> <li>Incorrect mode or parameters set.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure the probe connector is firmly connected.</li> <li>Inspect the cable and connector for damage.</li> <li>Select correct frequency, mode, intensity and time.</li> </ul>
Low or no intensity	<ul style="list-style-type: none"> <li>Intensity set too low.</li> <li>Poor gel coupling.</li> <li>Damaged or worn-out probe.</li> </ul>	<ul style="list-style-type: none"> <li>Increase intensity gradually.</li> <li>Apply sufficient ultrasound gel.</li> <li>Inspect probe and replace if necessary.</li> </ul>
Over temperature warning	<ul style="list-style-type: none"> <li>Prolonged continuous use.</li> <li>Poor ventilation.</li> <li>Device vents blocked.</li> </ul>	<ul style="list-style-type: none"> <li>Stop use and allow the device to cool down.</li> <li>Ensure proper ventilation around the device.</li> <li>Keep vents clear and clean.</li> </ul>
Probe connection error	<ul style="list-style-type: none"> <li>Probe not fully inserted.</li> <li>Moisture or debris in connector.</li> <li>Faulty probe.</li> </ul>	<ul style="list-style-type: none"> <li>Reconnect the probe firmly.</li> <li>Clean the connector gently and dry.</li> <li>Try another probe or contact service center.</li> </ul>
Unusual noise or vibration	<ul style="list-style-type: none"> <li>Loose parts or connectors.</li> <li>Probe cable twisted or damaged.</li> <li>Internal hardware issue.</li> </ul>	<ul style="list-style-type: none"> <li>Check all connections and tighten if needed.</li> <li>Straighten the cable and ensure proper handling.</li> <li>Stop use and contact service center.</li> </ul>
Timer not counting down	<ul style="list-style-type: none"> <li>Timer not set correctly.</li> <li>System error.</li> </ul>	<ul style="list-style-type: none"> <li>Set the timer again.</li> <li>Restart the device.</li> </ul>
Treatment stops automatically	<ul style="list-style-type: none"> <li>Safety protection activated.</li> <li>Overheating or system fault.</li> <li>Improper probe contact.</li> </ul>	<ul style="list-style-type: none"> <li>Allow device to cool down and restart.</li> <li>Ensure good contact with gel and correct technique.</li> <li>If issue continues, contact service center.</li> </ul>

### QUICK CHECK GUIDE

- ✓ Power cable connected securely.
- ✓ Probe connected properly.
- ✓ Sufficient gel applied.
- ✓ Correct frequency, mode, intensity and time selected.
- ✓ Probe moving or placed correctly.
- ✓ Device ventilation clear.



**NOTE:** Do not open or attempt to repair the device yourself. This may void the warranty and affect device safety.



### NEED FURTHER ASSISTANCE?

If you are unable to resolve the issue using the above guidance, please contact your authorized dealer or service center.

☎ 011 40592355 | ✉ info@pmmedicaldevice.com



### WARNING:

- Do not use the device if any damage or fault is detected.
- Always use genuine accessories and replacement parts.
- Immediately stop use if the patient feels pain or discomfort.

## 14. WARRANTY AND SERVICE

We are committed to providing quality products and dependable after-sales support.



**1 YEAR WARRANTY**

### 1 YEAR WARRANTY FROM THE DATE OF PURCHASE

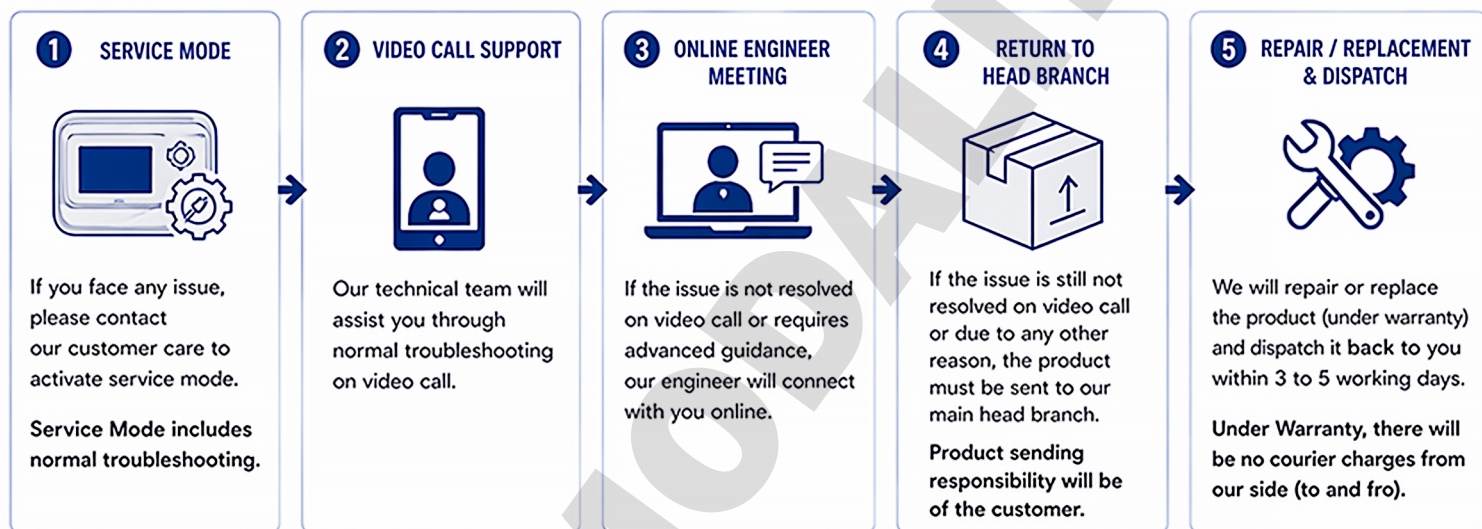
AERO STIM PRO-400 is covered against any manufacturing defects in material and workmanship for a period of 1 year from the date of purchase.

✘ **Accessories are not covered under warranty.**








#### WARRANTY COVERS

- ✔ Manufacturing defects
- ✔ Faulty components
- ✔ Normal functioning failures under recommended usage

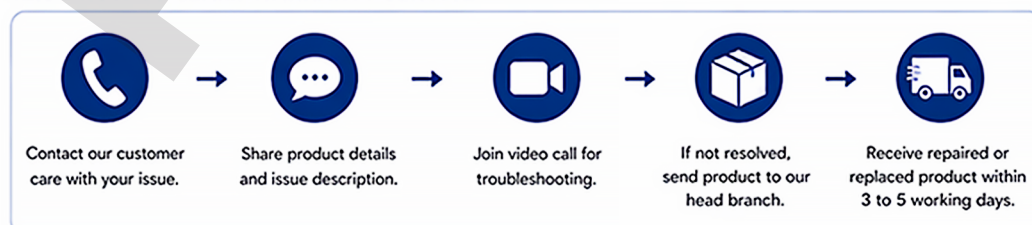
### 12.1 SERVICE PROCESS



### 12.2 IMPORTANT TERMS AND CONDITIONS

	<b>Warranty Period</b>	1 year warranty from the date of purchase.
	<b>Service Support</b>	Service mode includes normal troubleshooting on video call or engineer online meeting.
	<b>Product Sending</b>	If the product needs to be sent to our main head branch, the product sending responsibility will be of the customer.
	<b>Repair / Replacement Time</b>	Product will be repaired or replaced and dispatched within 3 to 5 working days from the date of receipt at our head branch.
	<b>Courier Charges</b>	Under warranty, courier charges will be borne by us (to and fro).
	<b>Paid Parts / Damage</b>	If any part is found damaged or defective due to wear & tear or misuse, the cost of that part will be chargeable.
	<b>Not Covered Under Warranty</b>	<ul style="list-style-type: none"> <li>Physical damage, breakage, burn, water damage, or mishandling.</li> <li>Accessories (electrodes, vacuum cups, ultrasound head, cables, couplings, pouches, etc.).</li> <li>Damage caused by improper use, unauthorized repair, modification or accidents.</li> <li>Consumables like gel, adhesive, batteries (if any) and normal wear &amp; tear.</li> </ul>

### 12.3 HOW TO CLAIM WARRANTY SERVICE



**PLEASE NOTE**

- Keep your original purchase invoice safe for warranty claims.
- Warranty is valid only for the original purchaser.
- The decision of the company will be final and binding in all cases.