

Serial	Revision History	Approval
1.0.0	INITIAL RELEASE	DILKASH M.
1.0.1	JOHARI LOGO ADDED ON COVER	SURJYA

215.90 mm

171.45 mm



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51265002

Instruction Manual

Ultrasound Therapy



Ultrasound  
JUS-1


Manual Size : 8.5 inch x 6.75 inch

Paper Type : For Cover  
300 gsm Art Paper

For Inside Pages  
90 gsm Maplitho Paper

INSTRUCTION MANUAL SPECIFICATION :

MATERIAL : PAPER  
COVER : 300 GSM LAMINATED HEAVY CARDSTOCK  
INTERNAL PAGE : 90 GSM WHITE  
SIZE : 6.10 X 4.85 INCH

NOTES	POSITION 1		QUANTITY 1		SCALE 1 : 1	MATERIAL PAPER	
		NAME	DATE	MASS		SURFACE FINISH	
	Designed			UNITS :		Laminated Gloss	
	Drawn	VIPIN K.		DESCRIPTION :			
	Checked	HARI OM		INSTRUCTION MANUAL JUS1			
	Approved	SURJYA					
JOHARI DIGITAL HEALTHCARE LTD.				DRAWING NAME / NO.			A3
				51265002			NO. 1
							OF 8
				3D PART		REV. 1.0.1	



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**Instruction Manual**


**Ultrasound Therapy**




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JUS-1**

Precautionary Instructions

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 definition of these symbols are as follows;

- 


=CAUTION-

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

=WARNING-


Text with a "WARNING" indicator will explain possible Safety infractions that will potentially cause serious injury and equipment damage.

**NOTE** :- Throughout this manual "NOTE" may be found. These Notes are helpful information to aid in the particular area of function being described.



CAUTION

- Read, understand and practice the precautionary an operating instructions. Know the limitations and hazards associated with using any electrical stimulation device. Observe the precautionary and operational decals placed on the unit.
- DO NOT operate the unit in an environment of short-wave diathermy use.
- DO NOT use sharp objects such as a pencil point or ballpoint pen to operate the buttons on the control panel as damage may result.
- This unit should be operated, transported and stored in temperatures between 59°F and 104° (15° C and 40°C), with Relative Humidity ranging from 30%-60%.



WARNING

- This device should be kept out of the reach of children.
- Care must be taken when operating this equipment around other equipment. Potential electromagnetic or other interference could occur to this or to the other equipment. Try to minimize this interference by not using other equipment in conjunction with it.

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1. INSTRUCTIONS FOR USER OF ULTRASOUND THERAPY

Please read this instruction manual carefully before using **JUS-1** because it is unsafe to start using the device before reading the whole manual.

**⚠ CAUTION:** USA Federal law restricts these devices to sale by, or on order of a physician or licensed practitioner. This device should be used only under the continued supervision of a physician or licensed practitioner.

1.1 INDICATIONS FOR USE (Continuous/ Pulsed)

Therapeutic Ultrasound is indicated for the following:  
Pain relief  
Reduction of muscle spasm  
Localized increase of blood flow  
Increase range of motion of contracted joints using heat and stretch techniques

1.2 CONTRAINDICATIONS

- Undiagnosed pain
- Cancer
- Active tuberculosis
- Psoriasis
- Decreased circulation
- Infection
- Pregnancy
- Central nervous system tissue
- Joint cement (cannot use continuous mode, but may use pulsed mode 50% or less)
- Plastic components
- Pacemakers
- Thrombophlebitis
- Uncontrolled bleeding or blood-thinning medication (coumadin)
- Eyes
- Reproductive organs
- Heart

1.3 WARNINGS

The long-term effects of ultrasound therapy are unknown.

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1.4 PRECAUTIONS

- Acute inflammation (use non-thermal settings only)
- Epiphyseal plates (use pulsed, low intensity <0.5w/cm2)
- Decreased sensation (esp. with thermal US)
- Over implanted materials
  - metal reflects 90% of incident US
  - plastic respond like periosteum and it absorbs a large % of US
- generally safe if the sound head is kept moving.

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2. DESCRIPTION

JUS-1 is a microcomputer controlled desktop device which delivers continuous and pulsed Ultrasound Therapy (1 MHz) through a unique ultrasound applicator for professional use. This ABS constructed device can be easily carried around the clinic and has a special stand to fix the applicator when not in use. The keys of the panel on the device allows easy touch control of treatment and give the device an attractive appearance.

3. ACCESSORIES

The unit Ultrasound **JUS-1** comes with the following accessories:

Standard Accessories:

S.No.	Name of Accessories	Qty.
1.	Ultrasound Applicator	01
2.	Conductive Gel	01
3.	AC Cord	01
4.	Instruction Manual	01

Optional Accessories:

S.No.	Name of Accessories	Qty.
1.	Carry Bag	01

**Note:** Charges will be made for optional accessories.

**\*For ordering of accessories, please refer to page#9**

4. TECHNICAL SPECIFICATIONS

Modes	:	Continuous & Pulse
Ultrasonic Frequency	:	1 MHz
% Duty Cycle	:	Selectable from 10, 20 & 50 %
Treatment Time	:	Selectable from 1-60 Minutes
Power Input	:	90-220 VAC/ 50,60 Hz

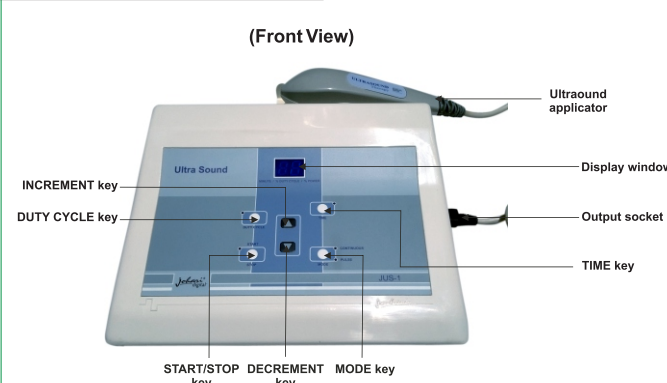
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5. INDICATORS AND CONTROLS

(Front View)



1. Display Window:

Shows treatment time, % duty cycle & power intensity.

2. TIME key:

To select desired treatment time (Selectable from 1-60 minutes)

3. DUTY CYCLE key:

To select desired % duty cycle applicable in pulse mode only. (Selectable from 10,20 & 50 %)

4. INCREMENT (▲) key:

To increase the value of % duty cycle, treatment time & power intensity.

5. DECREMENT (▼) key:

To decrease the value of % duty cycle, treatment time & power intensity.

6. MODE key:

To select desired mode (Continuous or Pulse)

7. START/STOP key:

To start or stop the treatment.

8. Output Socket:

To insert ultrasound applicator pin into output socket. (Provided in right side of unit).

9. Ultrasound Applicator:

to provide the treatment.

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6. OPERATING INSTRUCTIONS

1. Insert AC Cord into the AC receptacle.
2. Insert ultrasound applicator pin into the output socket.
3. Turn the unit ON using rocker switch.

Note: Display window will show "--" & LED of continuous mode will glow.
4. Press MODE key to select the mode.

• If CONTINUOUS MODE is selected, follow the steps as below:

1. Press TIME key.

Note: Time LED will start flashing & display window will show "10".

2. Use ▲ or ▼ key to select desired treatment time.

3. Press TIME key again to confirm.

Note: TIME LED will go off and display will show "--"

4. Press START/STOP key.

Note: LED will glow and display window will show "0.0".

5. Apply conductive gel on ultrasound applicator as well as treatment area.

6. Use ▲ key to increase power intensity (selectable from 0.1 to 2.5 W/cm.<sup>2</sup>)

7. Provide treatment by moving the ultrasound on the treatment area in helical motion.

If PULSE MODE is selected, follow the steps as below:

1. Press DUTY CYCLE key.

Note: DUTY CYCLE LED will start flashing and display will show "10".
2. Use ▲ or ▼ key to select desired % duty cycle (Selectable from 10, 20 & 50 %).
3. Press DUTY CYCLE key again to confirm.

Note: DUTY CYCLE LED will goes off.
4. Press TIME key.

Note: TIME LED will start flashing & display window will show "10".
5. Use ▲ or ▼ key to select desired treatment time.
6. Press TIME key again to confirm.

Note: TIME LED will goes off and display will show "--".
7. Press START/STOP key.

Note: START/STOP LED will glow and display window will show "0.0".
8. Apply conductive gel on ultrasound applicator as well as treatment area.
9. Provide treatment by moving the ultrasound applicator on the treatment area in helical motion.
10. Use ▲ key to increase power intensity (selectable from 0.1 to 3.0 W/cm.<sup>2</sup>)

7. MAINTENANCE

- Do not pull out ultrasound applicator.  
Do not attempt to open the housing of the unit. Leave any repairs to an expert.

7.1 STORAGE

- Keep the unit covered when not in use. This will help to keep out dust.
- Store the equipment & its accessories in a dry place & out of reach of children.
- Do not place the unit beside a source of heat, such as radiators. Prevent exposure to direct sunlight, rains, excessive dust,moisture, vibration & shocks.

7.2 CLEANING

- The soiled unit should be cleaned with a damp cloth.
- Do not submerge or wash the equipment in water.

8. WARRANTY

Product's warranty extends to the original consumer /purchaser of the product.

WARRANTY DURATION

The product is warranted to the original consumer for a period of one (1) year from the original purchase date.

WARRANTY COVERAGE

The Product is warranted against defective materials or workmanship. This warranty ceases if the product has been damaged by accident, in shipment, unreasonable use, misuse, neglect, improper service, commercial use, repair by unauthorized personnel or cause not arising out of defect in materials or workmanship. This warranty does not extend to any units which are used in violation furnished by manufacturer, or to units which have been altered or modified, or to damage to products or parts there of which have the serial number removed, altered or defaced or rendered illegible. The warranty doesn't cover normal wear & tear or ultrasound applicator & other accessories.

WARRANTY DISCLAIMERS

This warranty is in lieu of all warranties expressed or implied and no representative or person is authorized to assume for manufacturer/ any other liable in connection with the sale of our products. There shall be no claims for defects or failure of performance or product failure/ any theory of tort, contract or commercial law including, but not limited in negligence, gross negligence and strict liability, breach of warranty and breach of contract. Some states do not allow the exclusion or limitation of implied warranties or consequential damages, so the above limitations may not apply to you. Manufacturer is not responsible or liable for indirect special or consequential damages arising out of or in connection with the use performance of the product or other damage with respect to loss of property or loss of revenues or profit.

LEGAL REMEDIES

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

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**WARRANTY PERFORMANCE**

During the above one-year warranty period, a product with a defect will be repaired or replaced with a reconditioned comparable unit at distributor's option when the product is returned to the distributor. The repaired or replacement product will be in warranty for the balance of the one-year warranty period and an additional one-month period. No charge will be made for such repair or replacement.

**CONSUMER SERVICE**

For in warranty service for a product covered under the warranty period, no charge is made for service and return postage. Please return the product insured, packed with sufficient protection, postage insurance, prepaid to the address. Customs duty/brokerage fee, if any, must be paid by the consumer.

**OUT OF WARRANTY SERVICE**

There will be charges rendered for repairs made to the product after the expiration of the aforesaid one (1) year warranty period, after purchaser is advised appropriately.  
The distributor cannot assume responsibility for loss or damage during shipment. For your protection, carefully pack the product for shipment and insure it with the carrier. Ensure that you return the unit and accessories related to your problem and also that you indicate full return address. Also send a copy of sales receipt or other proof of purchase to determine warranty status. C.O.D. shipments cannot be accepted.

**List of Accessories:(In case of replacement or ordering)**

Accessories	Part No.
Ultrasound Applicator	70JUSP000
Ultrasonic Gel	4280400250
AC Cord	4280901223
Instruction Manual	43811JU001
Carry Bag	4280845159

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**IMPORTANT**

As the design and manufacture of our product is subject to constant improvement, the product supplied may differ in some details from the specification and illustrations given. Company reserve exclusive rights to change or modify the content at any stage without any prior intimation.

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