



Marketed by:  
**VISSCO Rehabilitation Aids Pvt. Ltd.**  
317, Tulsiani Chambers, Free Press Journal Road  
Nariman Point, Mumbai - 400021, Maharashtra  
Tel.: +91-22-43330300/ 43330333  
Email: [customercare@vissco.com](mailto:customercare@vissco.com)  
[www.vissco.com](http://www.vissco.com)

Manufactured By  
**Johari Digital Healthcare Ltd.**  
G-582-584, EPIP, Boranada-Salawas Road  
Jodhpur - 342012, Rajasthan, India  
TOLL FREE: 1800-102-8684  
Email : [info@joharidigital.com](mailto:info@joharidigital.com)  
Web.: [www.joharidigital.com](http://www.joharidigital.com)

MADE IN INDIA

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## Instruction Manual


### Ultrasound Therapy




## Ultrasound JUS-2


**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.

 <b>CAUTION</b>
<ul style="list-style-type: none"> <li>• 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.</li> <li>• DO NOT operate the unit in an environment of short-wave diathermy use.</li> <li>• 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.</li> <li>• 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%.</li> </ul>

 <b>WARNING</b>
<ul style="list-style-type: none"> <li>• This device should be kept out of the reach of children.</li> <li>• 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.</li> </ul>

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**1. INSTRUCTIONS FOR USER OF ULTRASOUND THERAPY**

Please read this instruction manual carefully before using **JUS-2** 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 INDICATION FOR USE OF THERAPEUTIC ULTRASOUND (CONTINUOUS/PULSED)**

Application of therapeutic deep heat for the treatment of selected sub-chronic and chronic medical conditions such as:

- Pain relief.
- Reduction of muscle spasm.
- Joint contracture

**1.2 CONTRAINDICATIONS**

- Avoid in case of vascular abnormalities including
  - DVT
  - Atherosclerosis
  - Hemophilia
- Acute infections
- Over developing fetus
- Acute skin conditions
- Malignancy
- Avoid applications over
  - Specialized tissues (Testicle/eyes)
  - Stellate ganglion
  - The geranium
  - Active epiphyreal regions in children
  - Spinal cord following laminectomy
  - Cardiac area

**1.3 WARNINGS**

- The long-term effects of chronic electrical stimulation are unknown.

- Stimulation should not be applied over the carotid sinus nerves, particular in patient with known sensitivity to the carotid sinus reflex.
- The electrode should not be applied over the neck or mouth, or anywhere else on the head.
- If stimulation is applied over the neck or mouth especially, severe spasm of the laryngeal and pharyngeal muscle may occur and the contraction may be strong enough to close the airway of cause difficulty in breathing.
- Stimulation should not be applied transthoracically in that the introduction of electrical current into the heart may cause cardiac arrhythmias.
- Stimulation should not be applied over swollen, infected, or inflamed areas or skin eruption, e.g. phlebitis, thrombophlebitis, varicose veins, etc.
- Stimulation should not be applied over, or in proximity to, cancerous lesion.

**1.4 PRECAUTIONS**

- Anesthetic / Parenthetic area.
- Subcutaneous major nerve/ bony prominence.
- Use lowest possible intensity to produce therapeutic effect.
- The applicator should be in contact with treatment area

**1.5 ADVERSE REACTION**

Skin irritation and burns beneath the electrodes have been reported with use of this device.

**2. DESCRIPTION**

**JUS-2** is a microcomputer controlled desktop device which delivers continuous and pulsed Ultrasound Therapy (1 & 3 MHz) through a unique ultrasound applicator for professional use. The unique applicator allows the user to customize the treatment with its inbuilt control panel. 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 membrane key panel on the device and the applicator allow easy touch control of treatment and give the device an attractive appearance.

**3. ACCESSORIES**

The unit Ultrasound **JUS-2** 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

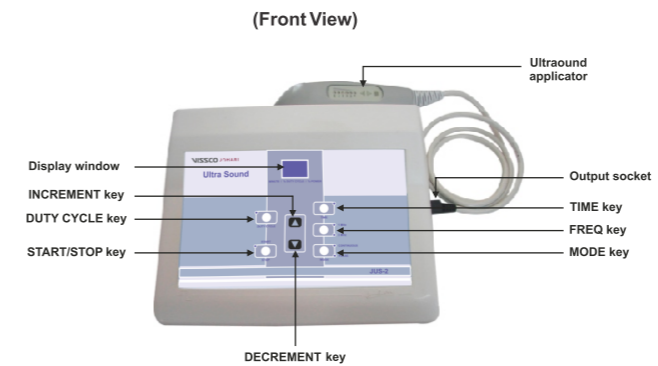
**Note:** Charges will be made for optional accessories.

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

**4. TECHNICAL SPECIFICATIONS**

<b>Modes</b>	:	Continuous & Pulse
<b>Ultrasonic Frequency</b>	:	1 MHz & 3 MHz
<b>% Duty Cycle</b>	:	Selectable from 10, 20 & 50 %
<b>Treatment Time</b>	:	Selectable from 0-60 Minutes
<b>Power Input</b>	:	90-220 VAC/ 50,60 Hz

**5. INDICATORS AND CONTROLS**



- 1. Display Window:** Shows treatment time, % duty cycle & power intensity.
- 2. TIME key:** To select desired treatment time (selectable from 0-60 minute)
- 3. DUTY CYCLE key:** To select desired % duty cycle applicable in pulse mode only. (Selectable from 10,20 & 50 millisecond)
- 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. FREQ key:** To select desired ultrasonic frequency (1MHz & 3MHz)
- 9. Output Socket:** To insert ultrasound applicator pin into output socket. (Provided in right side of unit).

**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, Freq. 1MHz will glow.

4. Press MODE key to select the mode.

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

1. Press FREQ key.  
**Note:** the Freq LED will start flashing.
2. Select desired frequency (1MHz or 3MHz) by pressing FREQ. key.
3. Press TIME key.  
**Note:** Time LED will start flashing & display window will show "30".
4. Use ▲ or ▼ key to select desired treatment time.
5. Press TIME key again to confirm.  
**Note:** TIME LED will go off and display will show "--"
6. Press START/STOP key.  
**Note:** LED will glow and display window will show "0.0".
7. Apply conductive gel on ultrasound applicator as well as treatment area.
8. Use ▲ key to increase power intensity (selectable from 0.1 to 2.5 W/cm.<sup>2</sup>)
9. Provide treatment by moving the ultrasound on the treatment area in helical motion.  
**Note:** User can also increase power intensity by using ▲ key of the ultrasound applicator.

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

1. Press FREQ key.  
**Note:** LED will start flashing.
2. Select desired frequency (1MHz or 3MHz) by pressing FREQ key.
3. Press DUTY CYCLE key.  
**Note:** DUTY CYCLE LED will start flashing and display will show "10".
4. Use ▲ or ▼ key to select desired % duty cycle (Selectable from 10, 20 & 50 millisecond).
5. Press DUTY CYCLE key again to confirm.  
**Note:** DUTY CYCLE LED will go off.
6. Press TIME key.  
**Note:** TIME ED will start flashing & display window will show "30".
7. Use ▲ or ▼ key to select desired treatment time.
8. Press TIME key again to confirm.  
**Note:** TIME LED will go off and display will show "--".
9. Press START/STOP key.  
**Note:** START/STOP LED will glow and display window will show "0.0".
10. Apply conductive gel on ultrasound applicator as well as treatment area.
11. Provide treatment by moving the ultrasound applicator on the treatment area in helical motion.
12. Use ▲ key to increase power intensity (selectable from 0.1 to 3.0 W/cm.<sup>2</sup>)  
**Note:** User can also increase power intensity by using ▲ key of ultrasound applicator.

**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.

**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	20MF06001
Ultrasonic Gel	30BME00016
AC Cord	40SEE00033
Carry Bag	40CFG00003

**IMPORTANT**

The content of this document is solely available for informational purposes only and are illustrative in nature and must not be interpreted to be exhaustive and final & we reserve exclusive rights to change or modify the content at any stage without any prior intimation.