



ULTRASOUND THERAPY USER MANUAL



Western Surgical
AN ISO 9001 : 2008 CERTIFIED COMPANY

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INTRODUCTION

Micro-Processor based, computerised ultrasound therapy unit gives you a choice of treatment modes Continuous or in SIX Pulsed wave forms. The compact digital unit with built in timer and friendly control panel gives a wide range of treatment situations.

Ultrasound machines are a treatment modality used by physical therapists that utilize high frequency sound waves. These sound waves are transmitted to the surrounding tissue and vasculature. They penetrate the muscles to cause deep tissue/muscle warming. (Passing through the body's tissues, these waves vibrate molecules. This causes friction and warmth as the sound passes through the tissue) This promotes tissue relaxation and therefore is useful in treating muscle tightness and spasms. The warming effect of the sound waves also cause vessel vasodilatation and increase circulation to the area that assists in healing.

Pulsed Signal Therapy, or PST, is an innovative new technological advancement that uses a high-tech, non-invasive medical device to treat arthritis, sports and repetitive stress injuries.

Ultrasound therapy unit is used in various fields like rehabilitation, gynaecology, orthopaedics, neurology, general practitioner, sports medicine, wellness

TECHNICAL SPECIFICATION :

- | | | |
|-----------------|---|----------------------------|
| 1] DISPLAY | : | ALPHANUMERIC 16 X 2 LCD |
| 2] FREQUENCY | : | 1 MHz |
| 3] POWER OUTPUT | : | 2.5 W/cm ² |
| 4] MODES | : | Continuous and pulse modes |
| 5] PROGRAMS | : | 42 Clinical Programs |
| 6] POWER SUPPLY | : | 220 – 230 VOLTS AC, 50 Hz |
| 7] WEIGHT | : | 3 KG |

STANDARD ACCESSORIES

- 1] MAINS CABLE
- 2] SOUND HEAD WITH CABLE

FRONT PANEL CONTROLS

- 1] LCD display
- 2] KEYPAD :
 - a] RST : RESET KEY
 - b] INC : To increase intensity / To increment the program by 10
 - c] DEC : To reduce intensity
 - d] PROG : PROGRAM SELECT KEY

* Carrying Warranty at Rajkot Office only on site warranty not provided free of cost.

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- e] STRT : START KEY
- f] OUTPUT SOCKET
- g] ON/OFF SWITCH (ON THE REAR SIDE)

OPERATING INSTRUCTION

- 1] Connect the mains cord and soundhead to their respective sockets.
- 2] Some coupling medium like, liquid paraffin or jelly or oil must be applied to the head as well as the area to be treated.
- 3] Turn ON the mains supply
- 4] The LCD display will turn on, with the following display

**GALTRON – GEMI
MUMBAI, INDIA**

- 5] Then press the RST key, it will show :

**X:XXM TREAT. TIME
PRESS INC KEY**

- 6] Press the SET key, to set the treatment time.
- 7] Wait for few seconds, then the display will show :

**X:XXM TREAT. TIME
PRESS PROG. KEY**

- 8] Press the PROG key to select the desired PROGRAM. (**PROG** key will increment the **program by 1**, to increment the **program by 10** press **INC** Key)
- 9] Display shows :

**X:XXM P^1 PL 1 : 2
PRESS PROG. KEY**

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10] Press STRT key to START the treatment.

11] Use INC/DEC key to increase/decrease the output intensity as desired.

NOTE : PRESS RST KEY TO STOP THE TREATMENT DURING USE.

APPLICATIONS

Ultrasound therapy

Rehabilitation

arthritis rheumatoid, arthrosis chronic, arthrosis chronic inactive, bursitis acute, bursitis acute – superficial, bursitis chronic, bursitis chronic – superficial, bursitis subacute, epicondylitis acute, epicondylitis chronic, epicondylitis subacute, haematoma chronic, haematoma subacute, haematoma subchronic, oedema chronic, oedema subacute, oedema subchronic, algodystrophy - Sudeck syndrome, tendovaginitis acute, tendovaginitis subacute, tendovaginitis chronic, tendinitis chronic, tendinitis acute, tendinitis subacute

Orthopaedics

arthrosis chronic, arthritis rheumatoid, bursitis acute, distortion acute, muscular distension acute, muscular distension acute – superficial, distortion subacute, distortion chronic, ankylosing spondylitis, myalgia superficial, haematoma chronic, haematoma subacute, haematoma subchronic, oedema chronic, oedema subacute, tendinitis chronic, tendinitis acute, tendinitis subacute, oedema subchronic, tendinitis acute

Neurology

myospasm, myospasm – superficial, trigger points – deep, trigger points – superficial, vasoneurosis universalis – m. Raynaud

General practitioner

scars acute, scars subacute, scars cheloid, decubitus, haematoma chronic, haematoma subacute, haematoma subchronic, oedema chronic, oedema subacute, oedema subchronic, ulcer cruris - foot ulcer

Sports medicine

bursitis acute, bursitis acute – superficialis, bursitis chronic, bursitis chronic – superficialis, bursitis subacute, distorsio acute, muscular distension acute muscular distension acute – superficial, distortion subacute, distortion chronic epicondylitis acute, epicondylitis chronic, epicondylitis subacute, haematoma chronic, haematoma subacute, haematoma subchronic, myospasm, myospasm – superficial, trigger points – deep, trigger points – superficial, oedema chronic, oedema subacute, oedema subchronic, tendovaginitis acute, tendovaginitis subacute, tendovaginitis chronic, tendinitis chronic, tendinitis acute, tendinitis subacute

Wellness myospasm, oedema, myalgia, haematoma, bursitis, distortion, epicondylitis, muscular distension.

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ULTRASOUND TREATMENT PROGRAMS :

PROGRAM NO.	TREATMENT	TARGET	NATURE
0	CONTINUOUS		CONT
1	PULSE 3:4	10 Hz	75% DC
2	PULSE 2:3	10 Hz	66% DC
3	PULSE 1:1	10 Hz	50% DC
4	PULSE 1:4	10 Hz	20% DC
5	PULSE 1:8	10 Hz	12.5% DC
6	PULSE 1:12	10 Hz	8% DC
7	PULSE 1:4A	48 Hz	20% DC
8	PULSE 1:1A	48 Hz	50% DC
9	PULSE 1:4B	100 Hz	20% DC
10	PULSE 1:1B	100 Hz	50% DC
11	CERVICAL 1	MUSC. SPAM	ACUTE
12	CERVICAL 2	MUSC. SPAM	SUB ACUTE
13	CERVICAL 3	MUSC. SPAM	CHRONIC
14	CERVICAL 4	MUSC. STRN	ACUTE
15	CERVICAL 5	MUSC. STRN	SUB ACUTE
16	CERVICAL 6	MUSC. STRN	CHRONIC
17	CERVICAL 7	NERVE ROOT	
18	THORAC 1	MUSC. SPAM	ACUTE
19	THORAC 2	MUSC. SPAM	SUB ACUTE
20	THORAC 3	MUSC. SPAM	CHRONIC
21	THORAC 4	MUSC. STRN	ACUTE
22	THORAC 5	MUSC. STRN	SUB ACUTE
23	THORAC 6	MUSC. STRN	CHRONIC
24	LUMBER 1	MUSC. SPAM	ACUTE
25	LUMBER 2	MUSC. SPAM	SUB ACUTE
26	LUMBER 3	MUSC. SPAM	CHRONIC
27	LUMBER 4	MUSC. STRN	ACUTE
28	LUMBER 5	MUSC. STRN	SUB ACUTE
29	LUMBER 6	MUSC. STRN	CHRONIC
30	LUMBER 7	NERVE ROOT	
31	SHOULDER 1	BICUP TENDON	ACUTE
32	SHOULDER 2	BICUP TENDON	SUB ACUTE
33	SHOULDER 3	BICUP TENDON	CHRONIC
34	SHOULDER 4	BURISITIS	ACUTE
35	SHOULDER 5	BURISITIS	SUB ACUTE
36	SHOULDER 6	ROT. CUFF	ACUTE
37	SHOULDER 7	ROT. CUFF	SUB ACUTE
38	SHOULDER 8	ROT. CUFF	CHRONIC
39	ELBOW 1	OLECRUNON	ACUTE
40	ELBOW 2	OLECRUNON	SUB ACUTE
41	ELBOW 3	LATERAL	ACUTE
42	ELBOW 4	LATERAL	SUB ACUTE

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7.3 WARRANTY CERTIFICATE

western surgical product is warranted to be free from electrical and mechanical defects in material and workmanship, under normal use. The western surgical product must not have been moved from the site of original installation. A new or remanufactured part to replace the defective part will be provided without charge for the part itself, through an authorized western surgical service dealer. The replacement part assumes the unused portion of the warranty.

WESTERN SURGICAL WILL NOT BE RESPONSIBLE FOR:

1. Damage or repairs required as a consequence of faulty installation or application by others.
2. Damage or repairs needed as a consequence of any misapplication, negligent handling, improper servicing, unauthorized alteration, or improper operations.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive atmosphere, or other conditions beyond the control of western surgical
5. Parts not supplied or designated by western surgical.

Date of Installation	Installed By
Model No.	Serial No.
Warranty Period	
Name of Doctor & Address :	

Customer Sign. With Stamps

Marketed By: Western Surgical
Sign. With Stamps

No Claim Warranty :

- 1) Any Defect Throughout Power Supply
- 2) Any Physical Damage

3) Under Warranty Standby Unit Not Provide

4) Under Warranty When Company Send Parts or Machine we Imidiat send to Buyer.

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Date : 13-4-2016

OUR OTHER PRODUCTS RANGE



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