

Ultima 20 T.E.N.S. stimulation device



ULTIMA 20 Transcutaneous Electrical Nerve Stimulation

- A five mode device with dual channels, three wave forms, and 20 treatment modes. This device is remarkable for its body part specific settings for ease of application and set-up by the patients.

T.E.N.S. works by stimulating your body's own natural defenses against pain. The unit produces a gentle stimulation through pads normally placed over the area of pain. This stimulus helps the body to produce natural pain relievers called endorphins.

The correct positioning of the pads is important. Some people feel immediate benefit from T.E.N.S. However, some may only achieve benefit after repeated treatment sessions and over an extended period of time.

8 MANUAL MODES AVAILABLE

- **Mode Constant A** – Both Pulse Rate and Pulse Width will be freely adjustable. Default values are PR=3Hz and PW=250µs characterized by a decontracturing effect. Use this program if you want relax the painful area. The stimulation level must produce a gentle muscular contraction.
- **Mode Constant B** – Both Pulse Rate and Pulse Width will be freely adjustable. Default values are PR=10Hz and PW=150µs characterized by an endorphin-stimulating effect. Use this program if you want produce endorphins at the painful area. The stimulation level may reach the muscular contraction. If the Pulse Rate will be increased, the stimulation level must be set to avoid the muscular contraction.
- **Mode Constant C** – Both Pulse Rate and Pulse Width will be freely adjustable. Default values are PR=70Hz and PW=50µs characterized by an endorphins stimulating effect, through the Gate-control mechanism. Use this program in case of ACUTE PAIN. The stimulation level must be set to avoid the muscular contraction.
- **Mode MODulation SW (B)** – Pulse Rate SWeep modulation. Pulse Rate is automatically modulated within F1=50Hz and F2=80Hz (adjustable); each frequency step will last 1 sec. F2 can be changed only if the intensity level of both channels are set to 0. The Pulse Width is 200µs (adjustable from 50µs to 250µs).
- **Mode MODulation 2F (B)** – Pulse Rate Dual Frequencies modulation. Pulse Rate is automatically changed, any 5 seconds, between F1=70Hz (adjustable) and F2=5Hz. F1 can be changed only if the intensity level of both channels are set to 0. The Pulse Width is 50µs (adjustable from 50µs to 250µs).
- **Mode Burst A** – One train any 3 seconds, 1s on, 2s off. Both Pulse Rate and Pulse Width will be freely adjustable. Default values are PR=30Hz and PW=250µs. The stimulation level must be set to produce a gentle muscular contraction.
- **Mode Burst B** – One train any 1.5 seconds, 0.5s on, 1s off. Both Pulse Rate and Pulse Width will be freely adjustable. Default values are PR=50Hz and PW=200µs. The stimulation level must be set to produce a gentle muscular contraction.
- **Mode Burst C** – One train any 0.75 seconds, 0.25s on, 0.5s off. Both Pulse Rate and Pulse Width will be freely adjustable. Default values are PR=100Hz and PW=150µs. The stimulation level must be set to produce a gentle muscular contraction.

SPECIFICATIONS

DUAL-CHANNELS, ISOLATED BETWEEN CHANNELS	Yes
PULSE AMPLITUDE (mA)	Max 130mA (peak value)
PULSE FREQUENCY (Hz)	1 ~ 150
PULSE WIDTH (µs)	50 µs ~ 250 µs; adjustable
WAVE FORM: ASYMMETRIC BIPHASIC SQUARE PULSE	Symmetrical Biphasic Rect. Asymmetrical Biphasic Rect. Monophasic Rectangular
TIMER CONTROL (MINS)	Continuous, 15, 30, 45, 60, 90
STIMULATION MODE	8 Manual Modes; 12 Preset Modes
POWER SUPPLY: 9V DC SQUARE SHAPE BATTERY	2 Alkaline AA 1.5V LR6 Batteries
SIZE (H)x(W)x(L) MM	22.2x63.31x101.6
WEIGHT (GRAMS; W/ BATTERY)	125
LOW BATTERY INDICATION	Yes

12 PRESET MODES AVAILABLE

- NECK PAIN
- TORTICOLLIS
- LOW BACK PAIN
- SCIATICA
- EPICONDYLITIS
- WRIST PAIN
- POST-SURGERY KNEE PAIN
- ANKLE SPRAINS
- GONALGIA (KNEE PAIN)
- COX ALGIA (HIP PAIN)
- MENSES PAIN
- NEURALGIA

MAY PROVIDE RELIEF FOR

- back ache, cervical arthrosis, torticollis, arthritis, sports injuries, ankle sprains, muscular strains, myalgia, rheumatism, neuralgia, labour, after surgery, migraine, menses

WARRANTY and WARNINGS

- 1-year, no-questions-asked warranty against all mechanical defects.

Federal law restricts this device to sale or use by or on the order of a practitioner so licensed by the state.

Read ALL instructions before using.

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