

# Care Stim<sup>®</sup>

## Muscle Stimulation



**Muscle Reeducation Post Injury or Surgery**

**Prevention or Retardation of Disuse Atrophy**

**Increasing Blood Circulation**

**Edema Reduction**

**Immediate Postsurgical Stimulation of Calf Muscles to Prevent Venous Thrombosis**

**Maintaining or Increasing Range of Motion**

Care Stim<sup>®</sup> is a dual channel digital muscle stimulation device. It comes with nine preset programs that provide a wide variety of work and rest times for effective patient treatment.

***Be Active. Stay Active.***

# Care Stim<sup>®</sup> Muscle Stimulation



## SPECIFICATIONS:

**Dual channel:** Individually isolated circuits.

**Amplitude:** 0-90 mA; indication only; actual mA will tend to be less than indicated due to electrode impedance.

**Type:** Constant current.

**Waveform:** Asymmetrical, rectangular bi-phasic with zero DC current.

**Selectable pulse width:** 50  $\mu$ S - 400  $\mu$ S [+/- 2% accuracy].

**Pulse rate selection:** In the continuous mode 2-100 Hz [+/- 2% accuracy].

**Maximum charge per pulse:** 41 microcoulombs.

**Maximum average current:** 3.6 mA.

**Duty cycle:** Ranges from 0.01% at 50  $\mu$ S, 2Hz to 4% at 400  $\mu$ S, 100 Hz.

**Time duration of the treatment selectable:** 15, 30 or 60 minutes or continuous.

**Open electrode detect:** If an open circuit is detected at the output of channel 1 or 2 the output current will be reset at zero.

**NMS** on time 5 -15 seconds. NMS off time 5 - 60 seconds. NMS ramp up time 0.1 - 9.9 seconds. NMS ramp down time < 1 second.

**Low battery indicator:** If the battery goes below 6.9 volts +/- 0.2 volts the battery symbol will flash on/off once every second. If the battery voltage is below 6.6 volts (+/- 0.2) the unit will not turn on.

**Physical dimensions:** 5.0" x 2.7" X 1.1".

**Weight:** 8 oz (including battery).

**Environmental conditions for storage & transport:** +14 to +95 degrees, 0-90% humidity.

**Tolerances:** All electrical specifications are +/- 10% into 500 ohm resistive load.

## SUPPORTING RESEARCH AND REFERENCES:

J Bone Joint Surg Am. 1995 Aug;77(8):1166-73. "Strength of the quadriceps femoris muscle and functional recovery after reconstruction of the anterior cruciate ligament. A prospective, randomized clinical trial of electrical stimulation." PMID: 7642660

J Bone Joint Surg Am. 1991 Aug;73(7):1025-36. "Electrical stimulation of the thigh muscles after reconstruction of the anterior cruciate ligament. Effects of electrically elicited contraction of the quadriceps femoris and hamstring muscles on gait and on strength of the thigh muscles." PMID: 1874764

Federal Law (USA) restricts this device to sale by or on the order of a physician so licensed by the state.



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