

## TwinStim II Multi-Function Device Specifications

- **Channels:** Dual Channel, isolated between channels
- **Pulse Amplitude:** Adjustable, 0-100 mA peak into 500 ohm load each channel.
- **Voltage:** 0 - 50V (Load: 500 ohm)
- **Pulse Rate:** Adjustable, from 2 to 150 Hz, 1 Hz/step
- **Pulse Width:** Adjustable, from 50 to 300 microseconds, 10uS/step
- **Wave Form:** Asymmetrical Bi-Phasic Square Pulse
- **On Time:** Adjustable, 2 ~ 90 Seconds , 1 Second/Step
- **Off Time:** Adjustable, 2 ~ 90 Seconds , 1 Second/Step
- **Ramp Time:** Adjustable, 1 ~ 8 Seconds, 1 Second/Step,

The "On" time will increase and decrease in the setting value.



### 3 EMS Modes:

#### Constant , Synchronous, Alternate

- **Constant:** Stimulation based on setting value. Only pulse width, pulse rate and timer are adjustable in this mode.

*"Constant" is equal to the "Normal" mode of a TENS unit.*

- **Synchronous:** Stimulation of both channels occurs synchronously. The **"ON" time including "Ramp Up" and "Ramp Down" time. Therefore, the setting of ON Time should be no less than two times of the "Ramp" time in this mode. ON TIME } Ramp up + Ramp down**
- **Alternate:** The stimulation of the CH2 will occur after the 1st contraction of CH1 is completed. In this mode, **the setting of ON Time should be no less than two times of the "Ramp" time. The OFF Time should be equal or more than the ON Time. ON TIME } Ramp up + Ramp down OFF TIME } ON.**

### 5 TENS Chronic Pain Modes:

#### B (Burst), N (Normal), M (Modulation), SD1 (Strength Duration), SD2 (Strength Duration 2) + EMS 'Constant Mode'

- **Burst Mode:** Burst Rate: Adjustable, 0-5 - 5Hz; Pulse width adjustable, 50~300uS; frequency fixed = 100 Hz
- **Normal Mode:** The Pulse Rate and Pulse Width are adjustable. It generates continuous stimulation based on the setting value.
- **Modulation Mode:** Is a combination of pulse rate and pulse width modulation. The pulse rate and width are automatically varied in a cycle pattern. The pulse width is decreased by 50% from its original setting in 0.5 second, then the pulse rate is decreased by 50% from its original setting in 0.5 second. Total cycle time is 1 second. In this mode, pulse rate(2-150Hz) and pulse width(50-300 uS) are fully adjustable.
- **SD1 (Strength-Duration 1) Mode:** Consists of automatic modulation intensity and pulse width in 40% range. The intensity is always increasing while the pulse width is decreasing and vice-versa. The intensity is decreased by 40% while the pulse width is increased by 40% in 5 seconds. In the next 5 seconds, the intensity is increased by 40% while the pulse width is decreased by 40%. Total cycle time is 10 seconds. Pulse rate (from 2~150 Hz) and pulse width (from 50~300 uS) are fully adjustable.
- **SD2 (Strength-Duration 2) Mode:** Consists of automatic modulation intensity and pulse width in 70% range. The intensity is always increasing while the pulse width is decreasing and vice-versa. The intensity is decreased by 70% while the pulse width is increased by 70% in 5 seconds. In the next 5 seconds, the intensity is increased by 70% while the pulse width is decreased by 70%. Total cycle time is 10 seconds. Pulse rate (from 2~150Hz) and pulse width (from 50~300 uS) are fully adjustable.
- **Patient Compliance Meter:** This unit can store 60 sets of operation records. Total recorded time is 999 hours.
- **Timer:** Adjustable, from 5 to 60 minutes or Continuous. Adjustable in 5 minutes each step. Treatment time countdown automatically.
- 3 Year Manufacturer Warranty
- System Includes: Stimulator, Lead Wires, Hard Plastic Carrying Case, and Instruction Manual/Booklet.

- **These specifications are taken from the distributor website where we purchase these devices.**
- **These specifications are for educational and information purposes only. Please do not take this information as medical advice.**
- **Please consult your physician for any medical treatment program.**