

TheraTouch® CX4

The TheraTouch® CX4 is an advanced combination four-channel electrotherapy and ultrasound system offering the practitioner a wide range of treatment options in one user-friendly, ergonomic design.

Using the color touchscreen, users are guided by the menu-driven interface when setting up a treatment manually, or when using one of the CX4's selectable evidence-based clinical protocols; each with easily editable parameters.

The TheraTouch CX4's bilingual interface intuitively groups and displays clinical protocols to guide clinicians step-by-step to ensure an ideal therapeutic treatment, including an anatomical library with electrode placement recommendations to ensure treatment efficacy and clinic efficiency. Therapeutic ultrasound can be combined with stimulation using the dedicated stim channel, using any supplied waveform.

- 1 MHz and 3 MHz therapeutic ultrasound
- Predefined clinical protocols to quickly setup treatment parameters based on patient indications
- 8 stimulation waveforms, including RAAS
- Three-year warranty



RAAS Updated waveform over PENS (ACP) & VMS-FR (Chattanooga)

Rapid Agonist & Antagonist Sequencing (RAAS) is purposed to mimic the muscle-firing patterns of healthy individuals. It uses the electrical stimulation of sensory and motor nerves to achieve a skeletal muscle contraction using an electromyogram - derived functional pattern. It is used extensively for neuromuscular reeducation and treatment of muscle disuse atrophy.

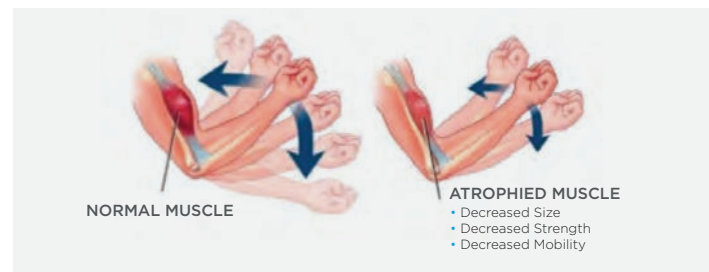
PARAMETERS

Phase Duration	Expressed in μs , is the time it takes to complete one phase of a pulse. The length affects the type of nerve recruited.
Frequency	In a pulsed current, the Frequency refers to the number of pulses that occur in a one second period of time and is denoted in (Hz) or Pulses Per Second (pps)
Burst Duration	The time elapsed from the beginning to the end of one burst, and is denoted in (ms)
Pattern Frequency	The Pattern Frequency refers to the number of the sequential pulse train pattern be repeated in a one second period of time and is denoted in (Hz)

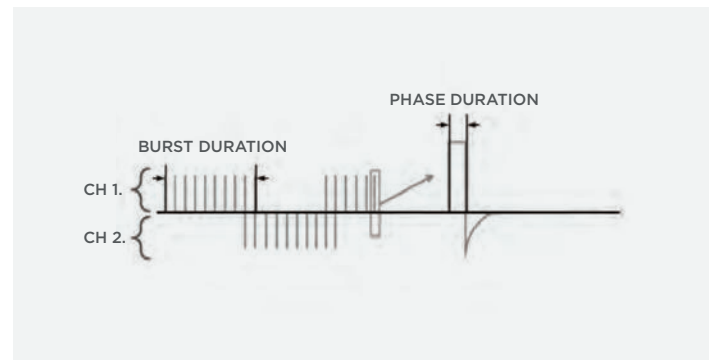
STIMULATOR OUTPUT PARAMETERS

(RAAS ASYMMETRICAL/SYMMETRICAL BIPHASIC)

Output Mode	Electrodes
Mode Selection	CC (Constant Current) or CV (Constant Voltage)
Intensity	CC: 0 - 200mA, Stepping 0.5mA; CV: 0 - 200V, Stepping 0.5V
Phase Duration	20 μs - 1,000 μs , Stepping 5 μs
Frequency	1 - 250 Hz, Stepping 1 Hz
Burst Duration	100ms - 5,00ms, Stepping adaptive
Pattern Frequency	0.05 - 4.0 Hz, Stepping adaptive
Treatment Time	1 - 60 Minutes



EFFECTS OF ATROPHY ON MUSCLE



PHASE/BURST DURATION