

SPECTRUM 4000Q™ / 4000M™ MODELS WITH SPECTRUM ULTRABRIEF®

The SPECTRUM 4000Q and 4000M models incorporate the **Newest Form of ECT - SPECTRUM ULTRABRIEF®** - in an **Upgradable, Portable, Cost-Effective** ECT device with the **EVIDENCE BASED** parameter sets of the best-selling SPECTRUM 5000Q and 5000M devices.

Controlled research at Columbia University has shown that the 0.3 msec ultrabrief pulse width sharply reduces seizure threshold, allowing treatments to be given at much lower electrical dosage than had been previously possible. Most critically, when compared to standard brief pulse stimulation, use of ultrabrief parameters results in a profound reduction in cognitive side effects. (Sackeim HA PhD, et al: Effects of pulse width and electrode placement on the efficacy and cognitive effects of electroconvulsive therapy. Brain Stimulation 2008;2).

FEATURES:

- Intuitive** Six tactile membrane switches with only one menu
- Efficacy** Up to sixteen therapeutic treatment parameters
- Two Distinct Dosing Devices -**
 - 4000Q - Four knobs for flexibility and precision
 - 4000M - One knob for simplicity in 1% steps
- Portable** Robust handle, small footprint and lightweight case
- SAFETY** Extensive regulatory agency approvals worldwide U.S. (UL); Canada (GSA, Health Canada 8 Approvals, #1537, #62578, #62576); European Union, TUV (EN ISO 13485:2003+AC:2007; CMDCAS ISO 13485:2003; EC 93/42/EEC Annex II, Article 3); EN ISO 9001:2000; Korea (KFDA); Australia (TGA)



4000Q™



4000M™

ECT PARAMETERS / 100 JOULES SYSTEMS

Q Models

Four Parameter Sets:

	<u>Set 1</u>	<u>Set 2</u>	<u>Set 3</u>	<u>Set 4</u>
Stimulus Current in 100mA increments	500-800 mA	500-800 mA	500-800 mA	500-800 mA
Frequency in 10-Hz steps	20-90 Hz	20-60 Hz	20-60 Hz	20-120 Hz
Pulse Width in .10 msec steps	0.5-1.0 msec	0.5-2.0 msec	0.5-1.0 msec	0.3-0.37 msec
Stimulus Duration	0.5-4.0 sec	0.5-3.0 sec	0.5-6.0 sec	0.5-8.0 sec
Charge	5.0-576 mC	5.0-576 mC	5.0-576 mC	3.0-568.3 mC
Energy @ 220 ohm patient impedance	0.6-101.4 joules	0.6-101.4 joules	0.6-101.4 joules	0.3-100.0 joules

New! SPECTRUM Ultrabrief

M Models

Four Parameter Sets:

	<u>Set 1</u>	<u>Set 2</u>	<u>Set 3</u>	<u>Set 4</u>
Stimulus Current	800 mA	800 mA	800 mA	800 mA
Frequency in 100 settings	20-90 Hz	20-120 Hz	20-60 Hz	20-120 Hz
Pulse Width	1.0 msec	1.0 msec	1.0 msec	0.3-0.38 msec
Stimulus Duration	0.18-4.0 sec	0.18-3.0 sec	0.18-6.0 sec	0.5-8.0 sec
Charge in 100 settings	5.8-576 mC	5.8-576 mC	5.8-576 mC	5.8-576 mC
Energy @ 220 ohm patient impedance	1.0-101.4 joules	1.0-101.4 joules	1.0-101.4 joules	1.0-101.4 joules

New! SPECTRUM Ultrabrief

*4000Q and 4000M models do not perform physiological EEG/ECG/OMS monitoring