

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 / 200 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	500-800 mA	500-800 mA	550-800 mA	500-800 mA
Frequency	20-120 Hz	20-120 Hz	40-90 Hz	20-120 Hz
Pulse Width	0.5-1.5 msec	0.5-1.0 msec	1.0-2.0 msec	0.3-0.7 msec
Stimulus Duration	0.5-4.0 sec	0.5-6.0 sec	0.5-4.0 sec	0.5-8.0 sec
Charge	5.0-1152.0 mC	5.0-1152.0 mC	22.0-1152.0 mC	3.0-1075.2 mC
Energy @ 220 ohm patient impedance	0.6-202.8 joules	0.6-202.8 joules	2.7-202.8 joules	0.3-189.2 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	550-800 mA	800 mA
Frequency	20-120 Hz	20-120 Hz	40-90 Hz	20-120 Hz
Pulse Width	1.5 msec	1.0 msec	1.0-1.4 msec	0.3-0.75 msec
Stimulus Duration	0.24-4.0 sec	0.36-6.0 sec	0.57-5.95 sec	1.20-8.0 sec
Charge	11.5-1152.0 mC	11.5-1152.0 mC	25-1200.0 mC	11.5-1152.0 mC
Energy @ 220 ohm patient impedance	2.0-202.8 joules	2.0-202.8 joules	3.0-211.1 joules	2.0-202.8 joules

New! SPECTRUM Ultrabrief

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