Advance to the Fifth Generation ECT Device From MECTA

The MECTA Σigma™ was designed with clinicians and patients in mind. This device maximizes simplicity and flexibility of use, shortens treatment time, achieves the best clinical outcomes, and enhances the collection and archiving of treatment information. Take a closer look at 19 reasons why advancing to the new MECTA Σigma might be right for you.

MECTA *Σigma*™ New and Unique Features	MECTA spECTrum®	MECTA *Σigma*™
One device with One Knob and Four Knob Modes of operation		√
New easily selected icons and pop-up menus. Use of the device is intuitive and remarkably simple. No buried menus		√
Widest range of stimulus parameters: Ultrabrief, Near Ultrabrief, Brief Pulse, and the Full Range Parameter Sets. Each can be used in One Knob or Four Knob Mode		√
Stimulus parameter settings can duplicate those of other ECT devices		√
New Titration and Subsequent Dosing Tables and new Pre-Selected Dosing Tables for Ultrabrief, Near Ultrabrief, and Brief Pulse Parameter Sets		√
Up to seven physiological monitoring channels displayed on the LCD Touchscreen		√
New Electromyography (EMG) Channel, in addition to the Optical Motion Sensor (OMS*) Channel, to monitor and document ictal activity		√
Higher quality physiological monitoring due to faster digital sampling rate (256 samples per second)		√
New larger, higher resolution 7" color LCD Touchscreen		√
New Lead Impedance Test measures the conductivity of up to six physiological monitoring leads to ensure excellent signal quality		√
New high-resolution, four-channel Chart Recorder		√
Replay Manager automatically saves treatment and physiological data from the last treatment for later printing or databasing		√
New printable Error Log stores up to 200 clinical and technical error messages		√
Printable Biomedical Report documents the device status and verifies proper functioning		√
New timing marks and clocks: Event Marker, Timer Marker, and Elapsed Timer		√
Faster power-on sequence and internal safety tests take only 16 seconds versus 36 seconds		√
Extends the capabilities of MECTA EMR® software		√
Economical footprint (25.5 lbs., 8" x 17.5" x 19.5")		√

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Features Comparison Between the MECTA *Σigma*™ and spECTrum®

The MECTA Σigma combines a host of innovations that enhance the practice of ECT. Its remarkable flexibility and ease of use and its breadth of stimulus settings accommodate the needs of novice and experienced ECT practitioners. The MECTA Σigma simplifies the practice of ECT, while greatly expanding device capabilities.

Incorporating the latest modalities, technology, and safety has made the spECTrum the world's most recognized ECT device.

Long-time spECTrum 5000/4000 users may want to know how MECTA engineers have improved on this ground-breaking device. Use the chart below to see how MECTA's fifth-generation technology, the MECTA Σigma, continues to support the clinical needs of all ECT practitioners.

Retained and Improved √ Features

	MECTA spECTrum®	MECTA *Σigma*™
The spECTrum Q model (Four Knob operation) and the spECTrum M model (One Knob operation) are available in one device, with an intuitive selectable operating mode using the larger, higher-resolution LCD Touchscreen	√	√
Optimized and Full Range Parameter Sets, now with the widest range of parameters including Ultra-Ultrabrief Pulse Widths (e.g., 0.15 ms*) and adjustment of current (500-900 mA)	√	√
The MECTA Σigma can be customized with up to six channels of physiological monitoring: 2, 4, or 6 EEG, 1 ECG, and 1 OMS*, plus a new, optional EMG Channel for a total of seven channels of monitoring	√	√
Automatic and continuous measurement of static impedance to allow treatments only when they are within a safe and acceptable range	√	√
Stimulus delivery automatically shuts off if impedance is too high or otherwise exceeds safety limits	√	√
Treatment flexibility using disposable electrodes, Headband and Metal Stimulus Electrodes, or MECTA's Hand-Held Electrode Assemblies	√	√
The Treatment Results Report documents precise values for treatment parameters: charge, energy, dynamic impedance, pulse width, frequency, duration, and current	√	√
The Self Test Results document device settings before every treatment, including Static Impedance at the time of stimulation. Optional printout of physiological lead impedances is now available	√	√
Integrates with optional MECTA EMR® software. Functions include: a searchable database, archiving of treatment parameters and physiological traces, and report generating. The MECTA Σigma data can be mirrored on a large external monitor	√	√
Available in a 100J or 200J device, 50/60 Hz*	√	√

Contact MECTA or visit our website for product information and sales.

*Device features depend on choice of options and regulatory requirements in the country of purchase/usage.

D-CS-#0060 Rev B

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