MED64 PRESTO

Discover the beauty that only the highest-sensitivity MEA can bring to your research!

The MED64 Presto is a microelectrode array (MEA) system that incorporates the industry leading sensitivity of the MED64 platform in an easy to use multi-well format. Modern, intuitive, easy to use software makes data collection and analysis effortless.

The MED64 Presto is engineered for researchers who need the correct answer to their scientific inquiries and reveals data that can be missed by other platforms.

Advantages

◆ Flexible 6, 24, 48, and 96 multi-well formats.

◆ Industry leading high-sensitivity, low-noise system (0.9 µV (< 3 kHz)), providing excellent signal-to-noise.

◆ New carbon nanotube electrodes provide a friendly substrate for cells to adhere.

◆ Transparent glass base allows clear visibility of cells and compatibility with imaging.

◆ Innovative well design (sakura), and ready-to-use accessories to help plating cells.

◆ Integrated stage heater and environmental chamber.

◆ Modern, state of the art software.

High-sensitivity electrodes provide more information

The MED64 Presto's electrodes are engineered for sensitivity to reveal data that can be missed by other systems. Better sensitivity mean more signals can be detected from your cells. Presto's new carbon nonotube technology provides flatter electrode surface compared to traditional MEA electrodes resulting in better cell adhesion onto the electrodes.
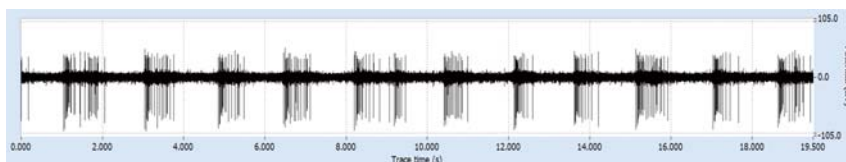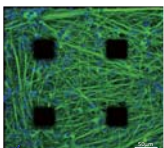
iPSC-neurons cultured on the microelectrodes (left) and recorded raw data (right)

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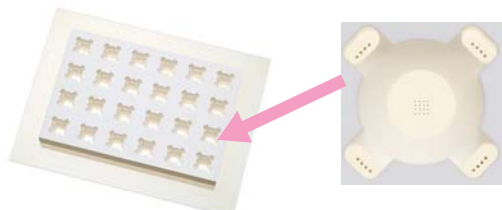## MEA Symphony:
The navigator for your experiment and analysis!
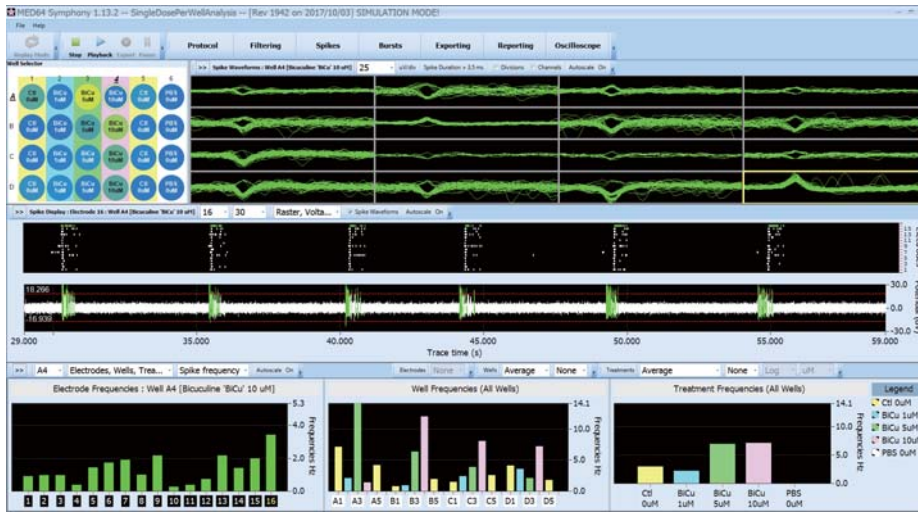
◆ Navigate your experiments from setting up experimental assays to producing an analysis report.

◆ Automated spike detection and subsequent spike and burst analysis.

◆ Easy and quick set up for analysis parameters as well as manual setting is available.

◆ Observe all analysis during and post-recording, giving you correct answers to your scientific inquireis.

Vatieties of MEA Plates

MEA 24-well Plate-comfort (left) and CellSpotter(right)

MEA 24well Plate-sakura (left) and zoom-up view of a well (right)

The MED64 Presto's MEA plates are available with 6, 24, 48, and 96 well format. Transparent plates allow for easy viewing of cells. The 24-well plate has 3 types of well shapes. Sakura plate is engineered for easy and accurate seeding of cells. CellSpotter cartridge is available to help your cell seeding both for eco and comfort plate.

Well format	Parts NO	No. electrode / well	Well size
MEA 24-well Plate-comfport	MED-Q2430	16	Φ16mm x 10mm (h)
MEA 24-well Plate-eco	MED-Q2430M	16	Φ11mm x 10mm (h)
MEA 24-well Plate-sakura	MED-Q2430S	16	Φ5 mm (bottom) x 10mm (h)
MEA 48-well Plate	coming soon	8	16mm x 7mm x 10mm (h)
MEA 96-well Plate	coming soon	4	Φ7mm x 10mm (h)
MEA 6-well Plate	coming soon	64	Φ22mm x 10mm (h)

Features

Amplifier, Acquisition		Amplifier, Stimulation		Electrode, Well	
Number of channel	384	Output	Voltage driven	Electrode material	Carbon nanotube
Gain	1000x	Output electroe	2 per 1 well	Electrode size	50 μm x 50μm
Sampling rate	20 kHz	Max. output voltage	+/-2Vp	Electrode impedance	7 kohm (Typ.)
RMS noise	1.2 μV (< 5kHz)	Temperature Controller		Insulation layer	Polyimide
	0.9 μV (<3 kHz)	Heater	Trangistor x 4	Material	Substrate: Glass,
High pass filter (LCF)	0.1Hz	Sensor	Sensor IC		Well: Acrylic resin
Low pass filter (HCF)	5 kHz	Resolution	+/- 0.1°C		Lead: ITO
Output channel	2	Temperature Controller	Omron EG5C		
	(for Trigger output)				

Information: www.med64.com

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