

# ELECTRO CELL MANIPULATOR ECM® 2001

**GENETRONICS INC.**  
 BTX Instrument Division  
 11199 Sorrento Valley Road  
 San Diego, CA 92121 USA  
 Website: [www.btxonline.com](http://www.btxonline.com)



## DESCRIPTION

The ECM 2001 is a versatile electro cell manipulation instrument. It generates a proprietary AC wave form for benign dielectrophoretic alignment of cells. With only microsecond switch-over time from AC to DC, efficient fusion can take place. After fusion AC reapplication keeps cells together for the rounding off process. The DC square pulse section can be used as a stand alone powerful electroporation system with a wide range of voltages and pulse lengths capable of operating into low impedance loads.



- Versatile Electro Cell Fusion & Electroporation Instrument
- Microprocessor Controlled Precision
- Wide Range of Parameters

<u>AC PARAMETERS</u>	<u>(Alignment)</u>	<u>DC PULSE PARAMETERS</u>	<u>(Fusion) (Electroporation)</u>
Proprietary nonsinusoidal wave shape		<u>High Voltage Mode</u>	
Frequency	1 MHz	Voltage	10-3000 V
Voltage (zero to peak)	0-75 V	Pulse Length	1-99 µsec
Duration	0-99 sec	<u>Low Voltage Mode</u>	
Post fusion AC	1/10 of prefusion amplitude	Voltage	10-500 V
Post fusion ramp	1-9 sec	Pulse Length	0.01-0.99 msec
Pause between AC / DC	50 µsec	Number of Pulses	1-99

Automatic or manually controlled sequence  
 Number of sequence repeats 1-9

Remote control available (sold separately)  
 Serial RS 232C port for printout of all settings  
 Size: 17"W-11"H-15.5"D  
 Warranty: 2 years

Can operate into a 20 Ohm load  
 Short circuit and arc proof  
 Power: 100/115 VAC, single phase  
 230 VAC, single phase  
 Fuse: 7A slow blow  
 Weight: 47 lbs.