



intracellular

extracellular

patch clamp

stimulation

neuroscience & electrophysiology instrumentation



A-M SYSTEMS™

MultiStim 8-Channel Programmable Stimulator

Model 3800



- 8 independent channels
- Front panel touch screen or computer control via USB
- Pulse widths from 1 μ s to 250 hours.
- Pulse intervals as short as 3 μ s
- Monophasic & biphasic waveforms
- Paired pulse & stepped amplitude protocols
- Combine channels for custom protocols
- Full triggering and gating
- ± 10 V, plus TTL sync pulses

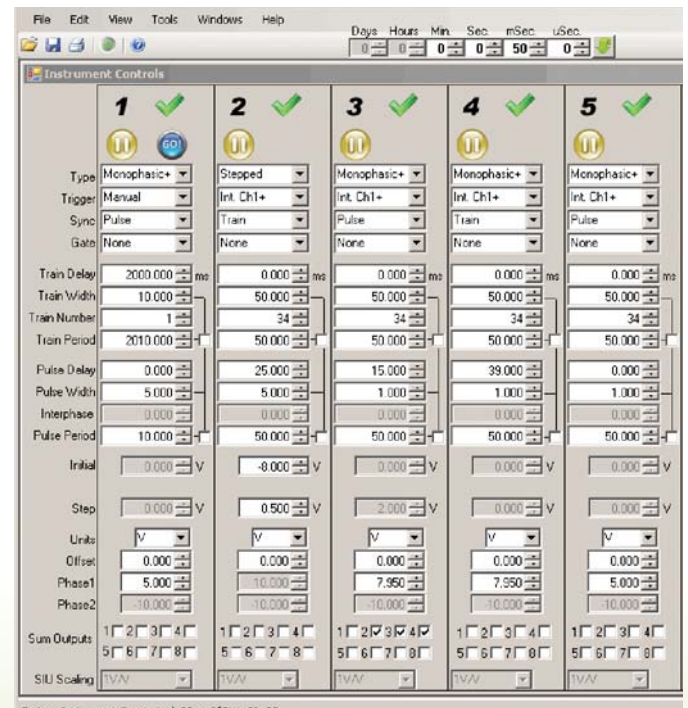
The Model 3800 MultiStim 8-Channel Programmable Stimulator represents the state of the art in stimulator instrumentation.

Buy with confidence from the manufacturer of the industry workhorse, the Model 2100 Isolated Pulse Stimulator.

Stimulus Isolation Unit



- Constant Current or Constant Voltage
- Single SIU can produce biphasic pulses
- ± 100 V @ 20 mA
- Switchable AC coupling
- Multiple output ranges



A-M Systems Model 3800 Control Software

Isolated Pulse Stimulator

Model 2100



- Pulse width from 1 μ s to over 15 minutes
- Excellent timing accuracy! Better than 0.02%
- Monophasic or biphasic pulse outputs
- Optically-isolated; No separate stimulus isolator required!
- TTL sync outputs, triggering & gate

Analog Stimulus Isolator

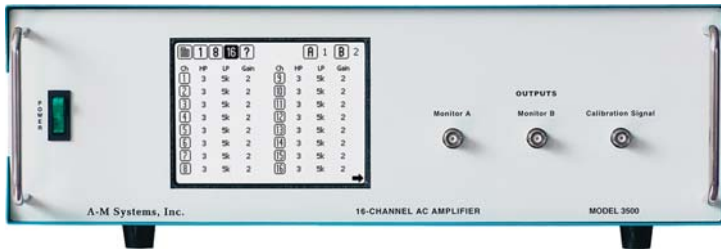
Model 2200



- Constant current or constant voltage
- Can isolate any input waveform shape
- Maximum output ± 50 V Biphasic (100 V monophasic), or 5 mA
- Uses rechargeable batteries; charger included

16-Channel Extracellular AC Amplifiers

Model 3500 and Model 3600



The Model 3500 is a true differential amplifier perfect for studies such as EEG and EKG.

The Model 3600 utilizes a 16-channel headstage to enable high-density spike recordings using high-impedance electrodes.

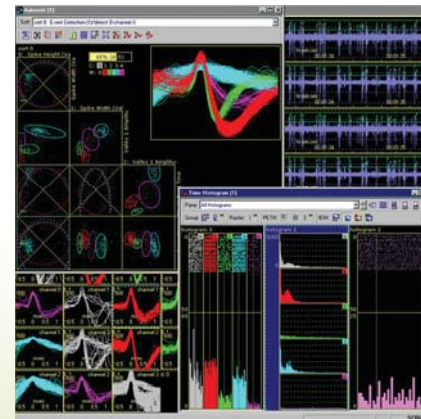
Model 3500 & Model 3600	
<ul style="list-style-type: none"> • 16 independent high gain, low noise channels • Control via front panel touch screen or Windows program • Parameter sets stored on-board and/or on a PC • Built-in Output Monitors & Calibration Signal • High Pass, Low Pass, and Notch Filters • TTL Control 	
Model 3600	Model 3500
<ul style="list-style-type: none"> • Two headstage options for use with high impedance electrodes <ul style="list-style-type: none"> » Stimulating and recording headstage » Miniature record-only headstage 	<ul style="list-style-type: none"> • True differential, common reference or ground reference recording options • Can pass stimulation signals directly to electrodes

MultiRecord 32-Channel Extracellular Amplifier

Model 4000



- Direct control of gain and filtering from a Windows program
- Scalable from 32 channels to 256 channels
- Can be purchased separately or as part of a complete system, including headstage, A/D acquisition system with sophisticated experiment protocol control and data analysis software.



DataWave SciWorks®

Microelectrode AC Amplifier

Model 1800



- Two independent channels
- Includes two headstages
- Recording gains: x100, x1,000, or x10,000
- Low noise (2.5 μ V peak-to-peak max., 10 Hz–10 kHz)
- High Pass, Low Pass and Notch Filters

Four-Channel Differential AC Amplifier

Model 1700



- Four independent channels
- Recording gains: x100, x1,000, or x10,000
- 2.5 μ V rms noise max (10 Hz–100 kHz)
- High common-mode rejection
- Optional headstage available

Patch Clamp Amplifier

Model 2400



- Full-featured amplifier with voltage and current clamp modes
- Capacity, series resistance, and whole cell compensation
- Telegraph outputs for all major front panel controls
- Displays command potentials, cell currents, and voltages
- Dual-range low-noise resistive feedback headstage (1 G Ω /10 M Ω ; 10 G Ω /10 M Ω ; 10 G Ω /100 M Ω)

Neuroprobe Intracellular Amplifier

Model 1600



- Digital meter displays membrane potential, injected current, or electrode resistance
- Square-wave generator for electrode test and adjustment of capacitance compensation
- Current injection system allows simultaneous stimulating and recording by a single electrode

Intracellular Electrometer

Model 3100



- Low noise
- Input impedance: 10¹³ Ω
- Bias current: adjustable to zero
- DC balance with transient suppression circuitry

Audio Monitor

Model 3300



- Two input channels
- 6-band frequency equalizer for custom sound performance
- 3 gain settings
- Headphone jack

Microelectrode Holders



Straight, Axon Universal Connector with Silver Wire & Suction Port



Straight, BNC Connector with Silver Wire & Suction Port

- Axon Universal, Axon Legacy, BNC, and 2 mm Pin connectors
- Silver Wire or Silver/Silver Chloride Pellet
- With or without Suction Ports
- With or without Perfusion Ports
- Straight, 30°, 45°, or 90°
- Custom holders can be made to your design!

AC/DC Amplifier

Model 3000



- Differential or single-ended recordings
- DC and AC modes
- Optional headstage for use with high-impedance electrodes
- High Pass, Low Pass, Notch Filters

Wire & Rod



A-M Systems offers a wide variety of fine bare, fine insulated wires, and straightened rods for your electrode manufacturing needs. We also have the ability to provide custom diameters and lengths of any item for your unique applications.

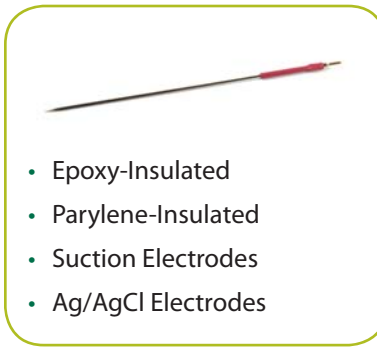
Platinum-Iridium, Platinum, Silver, Gold, Stainless Steel, and Tungsten wire and rod are available in diameters as small as 0.001" (25 μ) to as large as 0.025" (635 μ).



Connectors



Electrodes



- Epoxy-Insulated
- Parylene-Insulated
- Suction Electrodes
- Ag/AgCl Electrodes

Capillary Glass



- With or Without Filaments
- Standard Borosilicate
- Patch Clamp Glass
- Thin-Wall Glass
- Multi-Barrel Glass

Patch Cords



Illuminators



Dental Cement



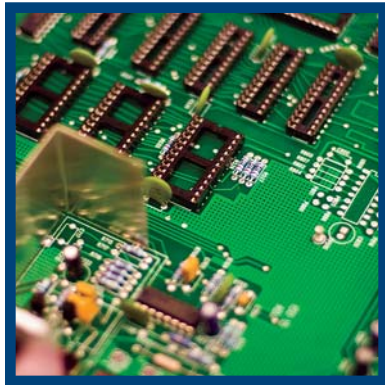
Stereozoom Microscopes



- Highest quality precision optics combined with all-metal bodies and stands
- Lifetime warranty
- Optional integrated filters
- Wide variety of lenses, eyepieces, and stands. Systems can be configured for your specific experimental requirements.
- Camera solutions and image software
- By Meiji Techno

A-M Systems is a leading global manufacturer and distributor of high-quality respiratory care products and precision neurophysiology instruments with the goal of making health-care innovation and efficiency affordable.

Since 1976, our unwavering commitment to product excellence, competitive prices and customer service has earned us satisfied customers in more than 100 countries. Today A-M Systems continues to deliver innovative products manufactured under the strict standards of ISO 13485:2003, FDA Quality System Regulations (21 CFR PART 820), EU Medical Device Directive, and Canada Medical Device Regulations (SOR/98-282).



The Neurophysiology Division designs, manufactures and distributes a wide range of scientific instruments, including stimulators, intra- and extracellular amplifiers, and patch clamps. Leading universities and research institutions worldwide use our

instruments and accessories, including electrodes, insulated wires and capillary tubing, to perform ground-breaking investigations into learning and memory, Alzheimer's and Parkinson's diseases, and models of stroke, deafness and blindness.

The Pulmonary Division designed and developed the popular VBMax™ line of pulmonary function test filters and the versatile ViroMax™ viral-bacterial filter. The Division also answered the growing demands worldwide for OEM products by offering custom packaging, branding and labeling across a wide range of pulmonary and respiratory care products.

We supply some of the world's largest manufacturers and distributors with custom-branded calibration syringes and other pulmonary and respiratory care products. Our PFT kits and breathing circuits, which are designed to help clinicians save time, can also be customized to meet specific needs of a hospital or clinic.



Both A-M Systems Divisions are united by a singular commitment to our customers who challenge us to deliver innovative, high-quality products and services efficiently and affordably.

To learn more about how we can help you, or if you are interested in joining our expanding network of distributors worldwide, contact us today!



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