



FREEZE MONITOR II

Video system for cued and contextual fear conditioning

SYSTEM COMPONENTS

- Control Unit
- Test Cabinet
- Mouse or Rat Grid Floor
- Software and User Manual
- All Cables and Connectors

PART NUMBERS

- 2325-0456
Freeze Monitor II System
- 2325-0457
Freeze Monitor II System Additional
- 7500-0417
Mouse Floor
- 7500-0418
Rat Floor
- 7001-0505
Context Box
- 2325-0358
Shock Level Tester



FEATURES & BENEFITS

Video provides more resolution to capture freezing episodes

Tone delivers sine wave from 2-40 kHz

Configure up to 4 stations for high throughput testing of subjects

Conversion from rats to mice is possible with interchangeable floors

Software counts total number of freezing episodes, time for each episode, and calculates percentage freezing

PRODUCT OVERVIEW

The Freeze Monitor II System is an advanced, compute-controlled solution engineered for the precise assessment of cued and contextual fear conditioning in rodent models, including both rats and mice. Utilizing auditory cues, visual cues, and a configurable shock grid, the system reliably induces freezing, a key defensive response. The system supports three stimulus modalities—sound, light, and shock—for flexible experimental design. Sound stimuli are user-defined across a broad frequency range (2 kHz to 40 kHz) and utilize a pure sine wave, with adjustable amplitude for experimental precision. Shock output is selectable at 0-5mA distributed through a proprietary eight-channel current source. The Freeze Monitor II also facilitates seamless adaptation between rat and mouse protocols, featuring interchangeable flooring for optimal experimental compatibility.

FREEZE MONITOR SOFTWARE

Researchers can fully customize cue type and duration via the Freeze Monitor II software, which also features automated video analysis to detect the onset and offset of each freezing episode. Detailed metrics are reported in real time, including the total number of freezing episodes, the duration of individual events, and the calculated percentage of time spent freezing.

Power. Flexibility. Ease of Use.

FREEZE MONITOR II SPECIFICATIONS

COMPUTER REQUIREMENTS

SDI offers high performance Configure Computers that are pre-installed with the Windows operating system, USB Drivers and applicable SDI software. Windows 10 compatible computer systems with one USB port.

ONSITE TRAINING

SDI offers on-site training to ensure understanding of how to operate the Rotor Rod System

For more information on any of our products or services please visit us on the Web at:

www.sandiegoinstruments.com

Or contact us via email at

sales@sandiegoinstruments.com

Freeze Monitor II Enclosure Dimensions	
Outside Dimensions	12" (W) x 14.25" (D) x 21.5" (H)
Inside Dimensions	11.5" (W) x 12" (D) x 16.5" (H)
Material Composition	ABS Plastic
Maximum # Stations	4
Standard Cable Length	6ft
Power Source	12 VDC
Control Box	
Outside Dimensions	14.5" (W) x 10" (D) x 6" (H)
Stimuli Option	Shock, Light, Tone, Two (2) Digital outputs (TTL)
Shock Specifications	
Shock Output	0-5mA
	8 unique scrambled shock output cable
Light Information	
House Light	3K lux
Cue Light	3.5K lux
Tone Information	
Control	Software
Type	Sine Wave
Range	2-40 kHz
Rod Dimensions	
Rat	
# of Rods	20
Diameter of Rods	.25"
Mouse	
# of Rods	35
Diameter of Rods	.125"
Material	Stainless Steel
Video Details	
Frame Rate	60 frame/sec

SERVICES AVAILABLE

- Technical Support
- Installation and Setup
- Maintenance
- Application Support
- Hardware Support
- Guaranteed Warranty



9155 Brown Deer Rd Suite 8
 San Diego CA 92121
 Phone 858-530-2600
 Fax 858-530-2626