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# LAB ANIMAL RESEARCH EQUIPMENT

## RATS/MICE ROTATION METER



Counts left, right and partial rotations. Single data collection unit for 1 to 8 animals. Self standing with its' own printer, it can also transfer data via RS-232 to PC.

## "FIGURE-8" AND RADIAL MAZES



System of 1 to 8 mazes controlled by IBM-PC, supplied with software. Animal location is monitored by multiple IR beams.

## END-TIDAL CO<sub>2</sub> METER FOR MICE AND RATS



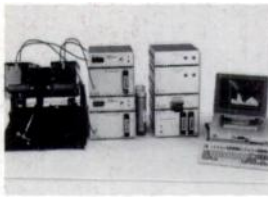
Extremely small air sample 5ml/min. High frequency response (150 or 300 breath/min). Analog output for recorders. Equipped with own printer. Digital display for end tidal CO<sub>2</sub> and N<sub>2</sub>O.

## MULTIPLE CAGE ANIMAL ACTIVITY METER



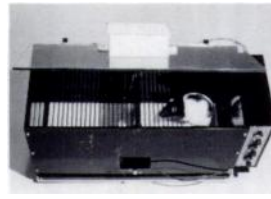
128 individual IR beams interfaced to IBM-PC monitor multiple standard plastic cages. Software differentiates ambulatory from non-ambulatory activity, can operate 64 cages with 2 IR beams assigned for each cage.

## VO<sub>2</sub>/VCO<sub>2</sub> MEASUREMENTS DURING EXERCISE



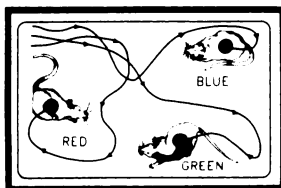
Complete computerized systems for mice, rats, dogs and horses. Include multi-lane enclosed animal exercisers with adjustable speed and inclination.

## PASSIVE/ACTIVE AVOIDANCE



Stainless steel shuttle boxes. Easily sterilizable. System of 1 to 16 boxes controlled by IBM-PC. Shock/light/sound controlled by software. Infrared pass no pass sensors.

## MULTIPLE ANIMAL VIDEO TRACKING



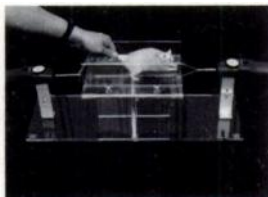
Tracks multiple animals sharing the same space using color markers for identification. Also measures activity, (distance traveled) rotations, visits to zones etc. of multiple animals in multiple cages using black/white contrast principle. Ideal for water mazes.

## RESPIRATION FREQUENCY RELATIVE TIDAL VOLUME



Measure respiration frequency and relative tidal volume of free running animals by monitoring small pressure changes with each breath. Continuous supply of air to animals. Normal size cages (1 to 16). Computer data collection.

## GRIP-STRENGTH METER



Objective measurements of animal deficiency in strength.

## STARTLE RESPONSE SYSTEM



IBM-PC based. 1 to 8 animals. Software control of stimulus and pre-pulse. Calibrated sensors (load cells). Systematic or random stimulus delivery. Acoustic, air puff and electric stimulus.

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