

# PINNACLE TECHNOLOGY INC.

## 8229 Automated Sleep Deprivation Unit

### GENERAL DESCRIPTION

The 8229 is a system for sleep depriving mice and rats without direct human intervention by simulating gentle handling via a rotating bar placed a short distance above the cage floor. The bar lightly nudges the animal from sleep and encourages the animal to maintain wakefulness without excessive exercise. The system can be preprogrammed (stand-alone mode) or when Pinnacle's EEG/EMG systems are used in conjunction with Sirenia Feedback Pro, real-time sleep state can be used to initiate sleep deprivation.

### APPLICATIONS

The 8229 was specifically designed to be used in preclinical research rodent studies to allow a researcher to study sleep deprivation, sleep fragmentation or provide the researcher with a consistent baseline of wake/sleep without needing direct human intervention or excessive exercise.

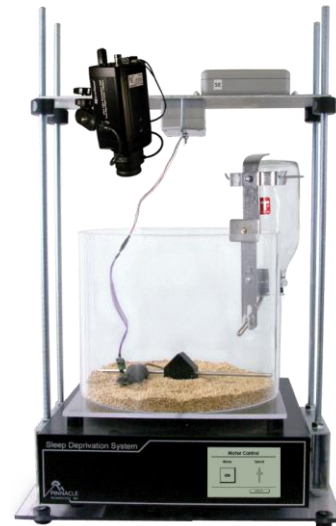
### FEATURES

- Calendar-based scheduling
- Adjustable speed and bar height
- Suitable for both mice and rats
- Used for short-term, long-term or chronic studies

### SPECIFICATIONS

<b>Weight</b>	3.28 kg
<b>Dimensions</b>	30.2 cm x 30.5 cm x 15.9 cm
<b>Calendar</b>	Hourly, daily, weekly, monthly*
<b>Bar Rotation Speed</b>	User controlled
<b>Bar Height</b>	1.5 - 4 cm recommended
<b>Power</b>	12 V/ 2.5 A
<b>Input Range</b>	100 – 240 V: 50 – 60 Hz

\* When connected to a computer the option increase for control: second-by-second timing is available, bar rotation direction and random reverse



### ADDITIONAL PRODUCTS REQUIRED (1 of 3 Cages Below)

- 8228-SD Circular 10" x 8" mouse cage with hole for bar
- 8238-SD Circular 12" x 12" rat cage with hole for bar
- 88273-SD Circular 14" x 12" rat cage with hold for bar

### OPTIONAL PRODUCTS SHOWN IN IMAGE

- 8200 or 8400 EEG/EMG system
- 8251-M or 8251-R Water Bottle
- 9009 Stand
- 9000-K9 or 9000-K11 Video camera