



Scientific Instruments

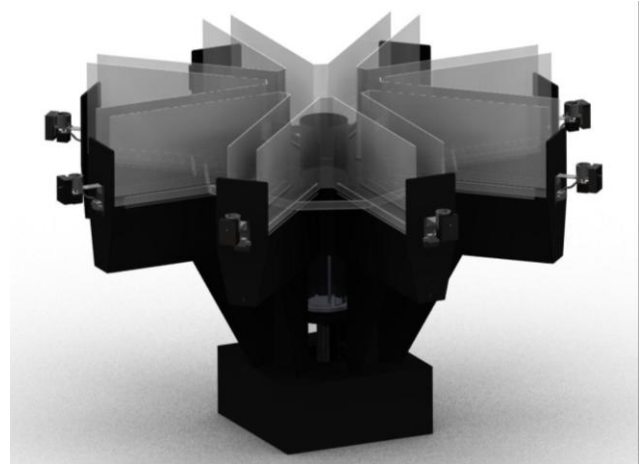
Peira EightMaze

PROBLEM

Central Nervous System researchers want to set up radial maze experiments that can serve to test contextual memory in animals. In a radial maze experiment, food is placed at the end of certain arms of the maze and the animal goes to the end of the various arms to pick up the food. Existing set ups are performed in ambient light conditions, thus creating uncontrolled external stimuli or cues.

SOLUTION

In close cooperation with the researcher conducting the experiment, Peira designed its EightMaze and equipped it with infra-red back lighting and camera in order to allow for tracking the animal in complete darkness. The proposed solution incorporated an hydraulic platform driving a cylinder in which the animal is placed in order to get accustomed to the new environment prior to starting the test. When starting the test the cylinder descends into the maze and the animal is free to move.



TECHNICAL DATA

Dimensions (LxWxH):	2176 x 2176 x 1200mm
Weight:	85 kg
Power:	1200 W
Volts:	220 V 50/60 hz
Speed:	30 mm/sec (Adjustable)
CE:	The EightMaze fully complies with all CE and EMC equipment guidelines relative to mechanical and electrical safety and electromagnetic compatibility.
Air supply:	4 bar
Height Platform:	966 mm
Illumination:	IR Led, bottom