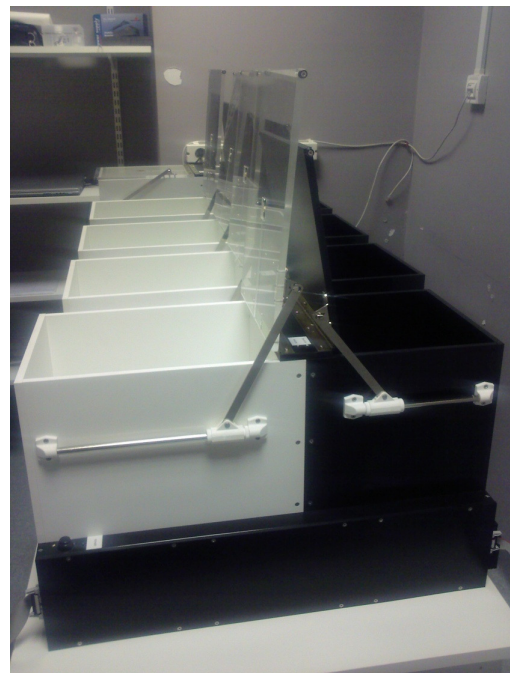


Passive Avoidance System

The passive avoidance test is a sensible method to study the effects of psychotropic drugs, anxiolytics or even brain lesions (ischemia/hypoxia) on learning and memory processes. Since it is a simple and fast method it has been widely used for decades.

Experimetria Passive Avoidance System was developed for this purpose with strong contribution of behavioural pharmacologists. Due to this fact it has several features, already built-in, which make it easy and unambiguous to use this unique system in practice.

The system design follows the well-established, two-sided box architecture with a clear (light) and a black (dark) side. The light side can be illuminated with a lamp built in the lid. There are blow-holes on the clear side, to ensure proper natural ventilation in the whole instrument. The passage between the two sides can be closed with a computer controlled door. The infrared photoelectric-cells, built-in the whole length of the boxes, accurately detect the actual position and movement of the animal. After the animal passes through the gateway the door, depending on the actual experimental paradigm, automatically closes. The door is fast, quiet and exceptionally reliable. Due to the matrix of infrared sensors the gating mechanism is accurate, avoiding the detection



errors can be seen in similar instruments are on the market. The floor is perforated, stainless steel plate on the light side, while it is stainless steel grid on the dark side, which allows delivering electrical shocks. There is a removable litter tray below both sides for easy cleaning of the unit.

The lids can be fixed at user defined open positions due to a special sliding mechanism. The lids therefore can be handled with one hand, they open and close virtually without noise. An additional advantage is that even bigger sized animals are not able to kick the lid and escape from the box.

The whole system is computer-driven through a control unit, which can manage up to six boxes. The software, which is developed by Experimetria Ltd, supports the known steps in the protocols, like habituation, learning and testing.

The time intervals during recording, duration of delivered current (0-10 s) and its intensity (0-3 mA) can be set freely. Each box can be adjusted independently, the recording period can be initiated or stopped with the START and STOP buttons placed on the boxes, independently of each other. The experimental process can be followed on the screen, data are displayed continuously and recorded in an exportable file format.

3 Train 0 s SEND ■		6 Train 0 s SEND ■	
Door Delay: 3 000 s	Max. Wait Time: 240 s	Door Delay: 3 000 s	Max. Wait Time: 240 s
Intensity: 3 000 μ A	# of Trains: 6	Intensity: 3 000 μ A	# of Trains: 6
Delay: 127 s	Train Period: 60 s	Delay: 127 s	Train Period: 60 s
Duration: 10 000 ms	# of Shocks: 1	Duration: 10 000 ms	# of Shocks: 1
Period: 10 000 ms	Randomization: 0 %	Period: 10 000 ms	Randomization: 0 %

Box Controls | Treatment Sheet | Table Sheet

● State: Disconnected | Port: COM1 |
 Habituation Mode |
 Learning Mode |
 Testing Mode |
 TEST |
 COPY |
 SEND ALL |
 Message: -

Main features:

- infrared photoelectric-cell matrix, exact tracking, accurate gating
- quiet and fast door mechanism
- unique lid mechanism
- START and STOP buttons on the boxes
- easy cleaning, good ventilation
- 0-3 mA current
- saved experimental configurations
- independent adjustment of each unit