

VL Track – IR Track System

Automated analysis system for behavioural studies on rats and mice. A wide range of behavioural tests in only one system.

- Monitoring and quantification of animal trajectory in visible light (VL Track)
- Or complete darkness (IR Track), in a dry or aquatic environment, or a not uniform environment background



Water maze for behavioural test

Tests performed in:

1. Lighting standard (VL Track), with standard camera.
2. Complete darkness, water (IR Track) with an infrared camera (precision instrument using a very sensitive IR detector).

The system automates most tests based on locomotive activity:

- Cincinnati Water Maze
- E Water Maze
- Open Field in standard lighting, Radial mazes
- Black/White box
- Water mazes (Morris Water maze)
- Place Preference
- Multiple T Maze
- Plus Elevated Maze

PRINCIPLE

The system includes a camera (standard or infrared, according to the desired use) and data acquisition and processing software. The software reports an animal's position at any given time and records its trajectory.

It also allows you to define an unlimited number of areas, of any shape, within the observed field and distinguish an animal's activity in each of those areas (time, distance covered, etc.).

The device can simultaneously process data up to 16 independent cameras and monitor several animals.



Dark light test with mouse in T maze



Cincinnati water maze configuration

SOFTWARE

- Protected by user profiles.
- Visual display of animals (in real-time) and binary images.
- Video recording with superimposition of user information.
- Secure video recording.
- Online recording of images for export to Microsoft Word or Excel.
- Regular backups and partial or complete data archiving with restoration of data to a hard disk or other digital support.
- Adjustable data acquisition speed and processing parameters.

Maintenance two years. Installation and formation with the use of the software

INTELLIBIO

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