

MazeMaster

Software

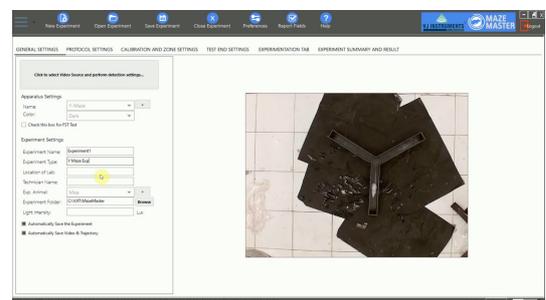
Model No. VJMM



TECHNICAL SPECIFICATIONS



Introduction Video



Working Video

General

VJ Instruments is a Company engaged in the production of Scientific Instruments with a “difference”. With an invention in the field of Pharmacy and Pre Clinical research, we supply range of world class products which comply with quality standards and “ease in use”.

We have team of professionals with adequate experience in the Pharma Industry and Academia. Company is lined up with further projects of research and development and is constantly engaged in innovation and product development.

Our product development is guided by eminent Researchers Engineers and Technocrats. Our Products are specifically meant for small animal behavior research as well as tools used in R&D, pilot drug development. We also deal with innovative custom base requirements.

MazeMaster® is a simplified user friendly interface used for automated video tracking of animal behavioral activity. This multi model software is implemented for almost all Maze protocols including Radial Arm Maze, Elevated Plus Maze, T-Maze, Y-Maze, Water Maze, Zero Maze. In addition our software is also used for other behavior protocol like Novel Object Recognition, Light and dark box, Force swim test Apparatus, Open Field Test (Circular & Square). MazeMaster is the common software supports multi model facility of several behavior protocols. Therefore MazeMaster is one of the most cost effective and reliable software available in market.

MazeMaster improves the efficiency of experiment by simultaneously analysing several animals in group at once. Use of MazeMaster by scientific community has recognized the precision provided by software.

BENEFITS

- Cost & time saving
- Minimises human error
- Multi model application (works with n number of mazes)
- Tracks more than 25 behaviour activities
- Improves working efficiency
- Supports live or recorded video tracking

Features

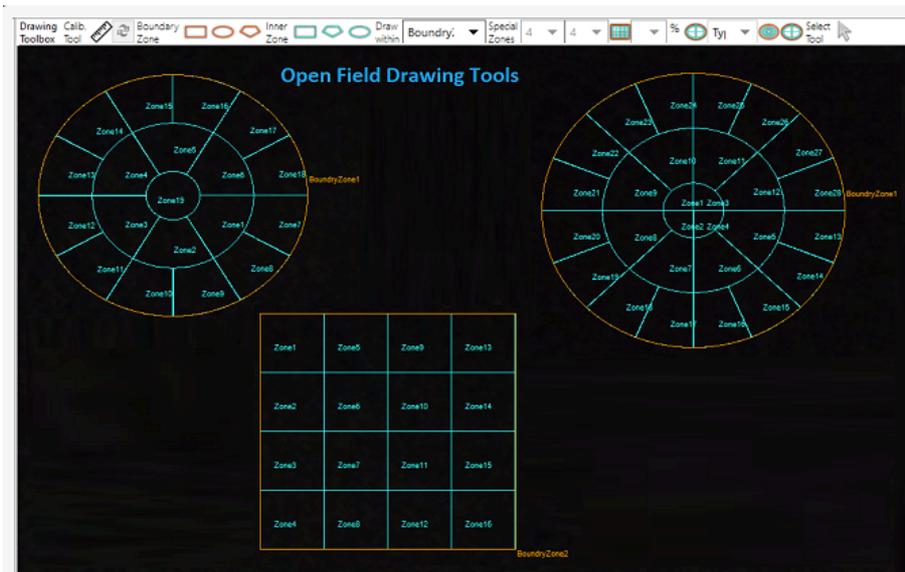
MazeMaster is one of the most cost effective software used for a wide range of animal (rodents) behavioral experiments. MazeMaster analyses various behavioral parameters like locomotion, Spontaneous behavior, anxiety, depression, different type of memory & drug abuse reward.

- Tracking – Body Center or Nose Point Tracking
- Trajectory
- Video Recording with zone overlap.
- Reports in graphical, excel, PDF formats

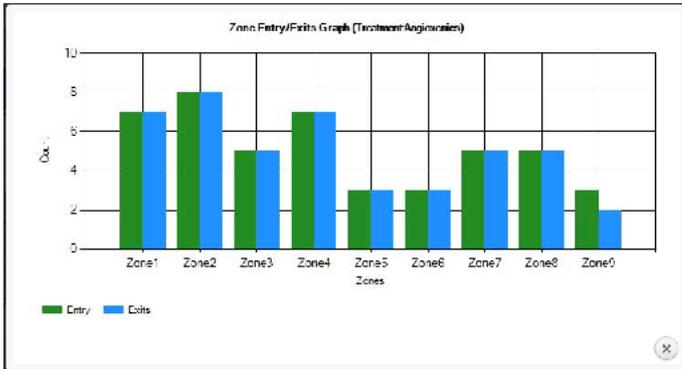
Treatment	Max Time-Spent In Zone	Grooming Count In Each Zone(manual)
Group	Min Time-Spent In Zone	Grooming Time In Each Zone(manual)
First Zone Entered	Passive Time In Each Zone	Total Grooming Count
Zone Entries	Total Passive Time	Total Grooming Time
Zone Exits	Distance Traveled In Each Zone	Max Grooming Time-Spent (Zone)
Sequence of Entry	Total Distance Traveled	Min Grooming Time-Spent (Zone)
Test Duration (Total Test Time)	Poking Count In Each Zone	Speed In Each Zone
Time Spent in Each Zone	Total Poking Count	Average Speed
Total Active Time In each Zone	Rearing Count In Each Zone	Latency To Target Zone (Morris Water)
Total Freezing Time	Total Rearing Count	Latency To First Zone
Freezing Time In Each Zone	Max Rearing Time-Spent In Zone	Latency To First Rear
Total Freezing Time	Min Rearing Time-Spent In Zone	
Freezing Count In Each Zone	Rearing Time In Each Zone(manual)	
Total Freezing Count	Total Rearing Time	

Special Drawing Tools

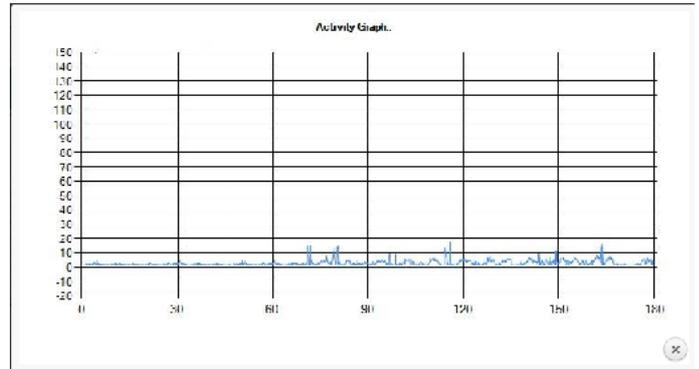
Researchers can use MazeMaster® application to research on different zone/ patterns for novel type of mazes as well as custom made mazes. MazeMaster supports drawing of different zones such as circular, rectangular, polygonal shapes or any custom made designs of their interest with a single mouse click.



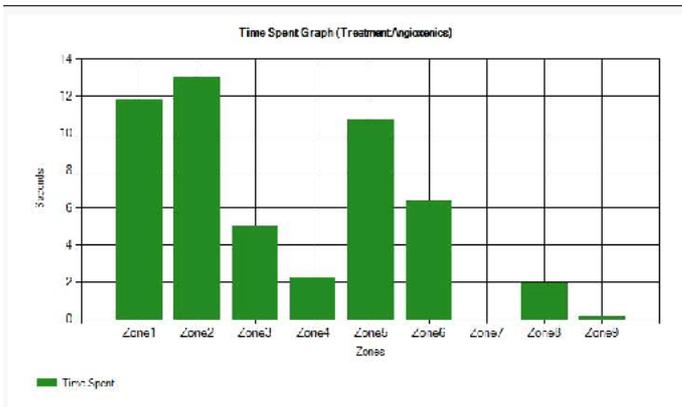
Reports.



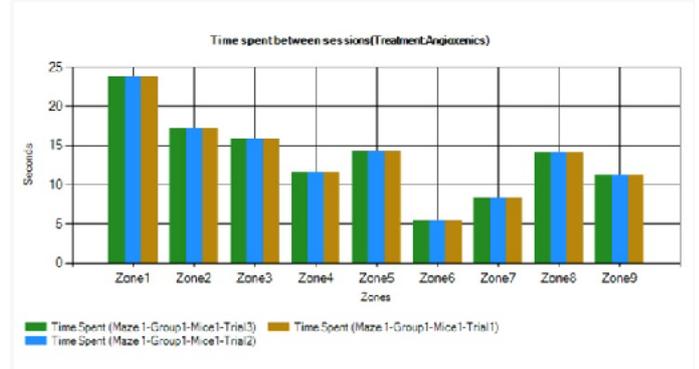
Zone Entry/Exit



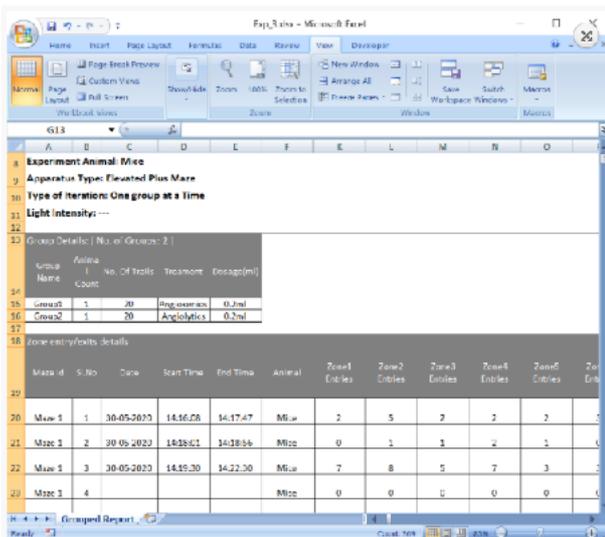
Activity Graph



Time Spent Graph

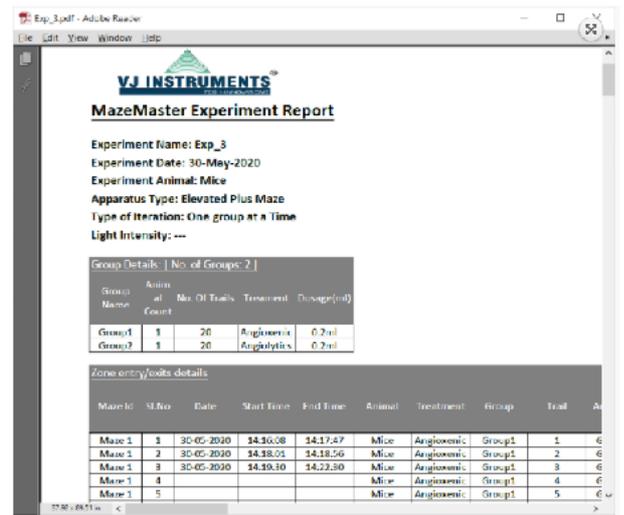


Time Between Sessions



Maze Id	S.No	Date	Start Time	End Time	Animal	Zone1 Entries	Zone2 Entries	Zone3 Entries	Zone4 Entries	Zone5 Entries	Zone6 Entries
Maze 1	1	30-05-2020	14:16:26	14:17:47	Mice	2	5	2	2	2	0
Maze 1	2	30-05-2020	14:18:01	14:18:54	Mice	0	1	3	2	1	0
Maze 1	3	30-05-2020	14:19:30	14:22:30	Mice	7	8	5	7	3	2
Maze 1	4				Mice	0	0	0	0	0	0

Excel Report



MazeMaster Experiment Report

Experiment Name: Exp_3
 Experiment Date: 30-May-2020
 Experiment Animal: Mice
 Apparatus Type: Elevated Plus Maze
 Type of Iteration: One group at a Time
 Light Intensity: ---

Group Name	Animals Count	No. Of Trials	Treatment	Dosage(ml)
Group1	5	20	Angiolexics	0.2ml
Group2	5	20	Angiolexics	0.2ml

Maze Id	S.No	Date	Start Time	End Time	Animal	Treatment	Group	Trial	Act
Maze 1	1	30-05-2020	14:16:26	14:17:47	Mice	Angiolexics	Group1	1	4
Maze 1	2	30-05-2020	14:18:01	14:18:56	Mice	Angiolexics	Group1	2	6
Maze 1	3	30-05-2020	14:19:30	14:22:30	Mice	Angiolexics	Group1	3	6
Maze 1	4				Mice	Angiolexics	Group1	4	6
Maze 1	5				Mice	Angiolexics	Group1	5	6

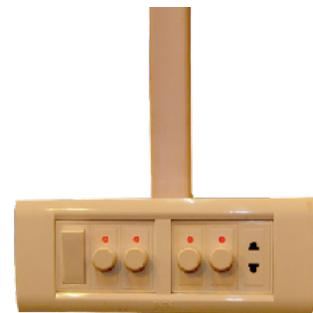
PDF Reports

Accessories

Ambient Lighting System

Environment of experimental room significantly affect the behavioral output. Considering this crucial factor we provide the Ambient lighting system to ensure appropriate temperature, humidity, light sound etc as per requirement of research laboratory.

- We help you to design and construct the acoustic room for the behavior experiment. We supply inverted light system with dimmer as well as lux meter to ensure uniform light and control its intensity in the experimental room.



- We also provide Night Vision Camera for nocturnal behavior / experiments.



Camera

MaseMaster support different types of webcam, Analogue camera, firewall camera and IP cameras. Company also provides services for installation of cameras according to size of different mazes.

Computer

MazeMaster is a Microsoft windows based application and hence runs on any windows based PC .

But we recommend following computer specification mentioned in below table.

	For Single Maze Tracking	For Multiple Maze Tracking
Windows	Windows 10	Windows 10
Processor	Core I5 (Latest Generation)	Core I7 (Latest Generation)
RAM	8GB	16GB
Hard Disk	1 TB	1 TB
Display Resolution	1920X1080	1920X1080
USB Slots	2	4

Note -

1. All the images displayed in the offer are for representation purpose only but actual may vary.
2. Dimension & weight may vary