

# All Maze Video Tracking Software & Maze

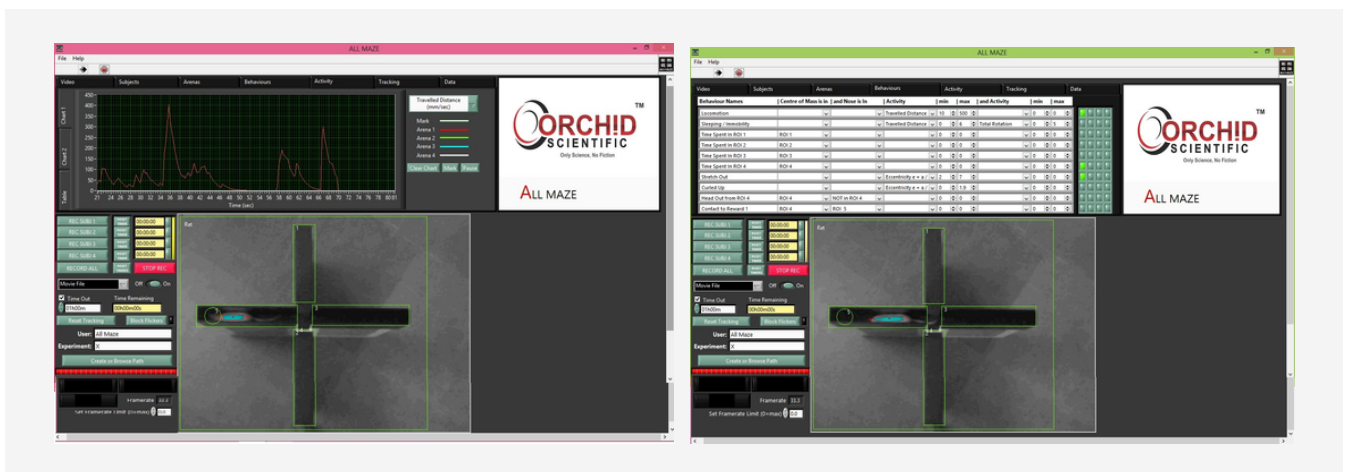
ALL MAZE SOFTWARE (VERSION 6.0)

## VERSATILE VIDEO TRACKING TOOLS FOR AUTOMATED ANIMAL BEHAVIOR RECORDING

All Maze Version 6.0 is a video tracking software package for automated analysis of rodent behavior in laboratory settings. All Maze is the most widely applied video tracking software that tracks and analyses the behavior, movement and activity of experimental animal without the use of sensor. All the user needs to supply is a camera and computer. It is fully compliant on both windows and Mac environments. What distinguishes All Maze from its competitors is that it can perform all the standard behavioral measurements that are offered by high end systems but in full dark conditions using infrared cameras. Data is automatically exported for statistical analysis in Excel, as well as accompanied by video or image captures of live tracking for presentation purposes.



**Designed To Track Automated Analysis Of Rodent Behavior In Laboratory Settings.**

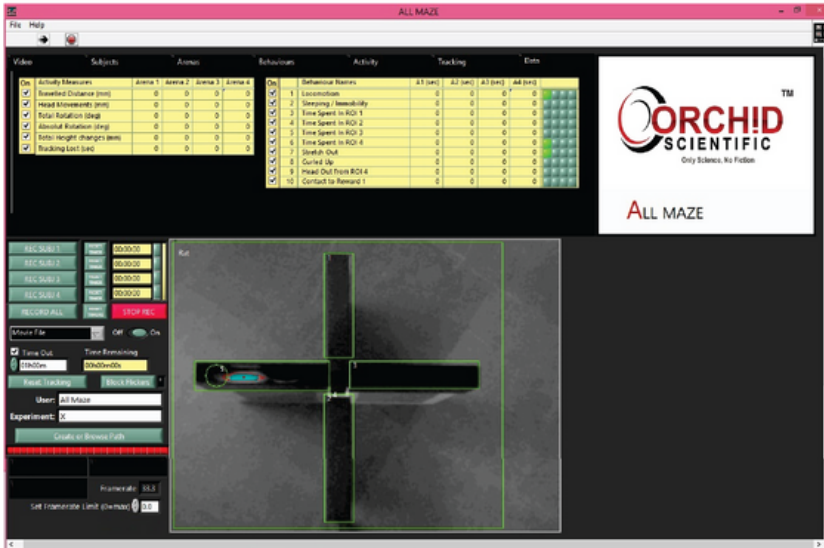


## WHY USE ALL MAZE?

- One versatile software platform to automate tests in a wide range of set-ups: from lab animals in mazes to farm animals in stables.
- Video tracking technology encompasses state-of-the-art detection methods.
- User-friendly interface and flexibility.
- Reasonably priced.
- Compatible with most cameras and digitizers.
- Full line of mazes and accessories.

## ALL MAZE COVERS A WIDE VARIETY OF APPLICATIONS:

- Motor and Locomotor activity.
- Anxiety: Open-field, Plus-maze, O-maze, Black and White box.
- Depression, Tail-Suspension Test.
- Learning and Memory.
- Water maze, Radial maze, T-maze.
- Emergence test.
- Conditioned Place Preference.
- Fear conditioning.



## PARAMETER STUDIED:

- Distance Travelled
- Body movement whilst stationary
- Entering and exiting zones
- Time spent in zones
- Part of body in zone
- Head out
- Contact to reward
- Rearing
- Head orientation (degrees)

## DATE LOGS:

- Centre of Mass data log in time (sec)
- Activity (Act) data log in distance (mm) and event counts
- Blob data log (Time & Event Count)
- ROI intersect data log
- Tracking line
- Excel data log

### **ADVANCED FUNCTIONS:**

- Record video files
- Track from saved video files
- Simultaneous tracking (upto 4 rodents)\*
- Save and reuse configurations

### **5 EASY SETUP STEPS:**

- Enter subject information
- Draw Arena and regions of interest
- Calibrate
- Setup blob logic
- Place the subject in the arena

### **REQUIREMENTS:**

- Any adequately powered PC for data storage
- USB video grabbing device- Camera/s
- QUAD Splitter: Needed if you want to track 4 animals at once
- LabVIEW Runtime software (freeware)
- Apple QuickTime (freeware)
- Mazes

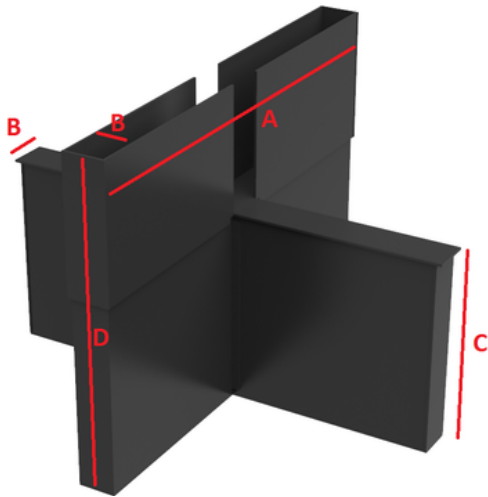
### **NOTE:**

- All Maze software is applicable for single computer installation only.
- Mazes used must be non-reflective and the light arrangement in the experimental area must be proper avoiding any reflection in the inflammatory area.

### **MAZES:**

- Made of thick acrylic material
- Color options: Black and white
- Made specially non-reflective for usage with video tracking software

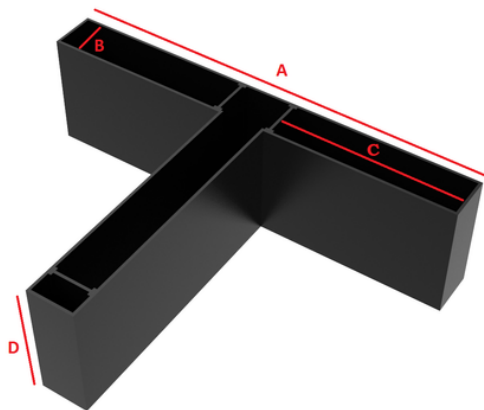
## ELEVATED PLUS MAZE



### ELEVATED PLUS MAZE SPECIFICATIONS

MAZE DIMENSIONS				
	Inner Dimension		Outer Dimension	
<b>Mouse</b>	(A) 25"	(B) 2"	(C) 15"	(D) 20"
<b>Rat</b>	(A) 43"	(B) 4"	(C) 19"	(D) 31"
<b>Material Composition</b>	Acrylic			
<b>Maze Color Options</b>	Black or White			

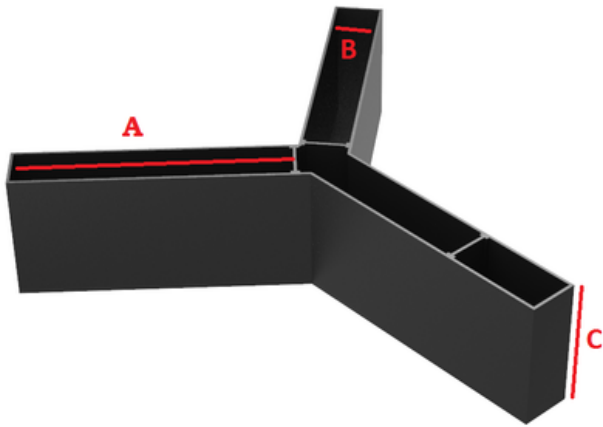
## T-MAZE



### T-MAZE SPECIFICATIONS

MAZE DIMENSIONS				
	Inner Dimension		Outer Dimension	
<b>Mouse</b>	(A) 24"	(B) 3"	(C) 10"	(D) 5"
<b>Rat</b>	(A) 36"	(B) 4"	(C) 16"	(D) 10"
<b>Material Composition</b>	Acrylic			
<b>Maze Color Options</b>	Black or White			

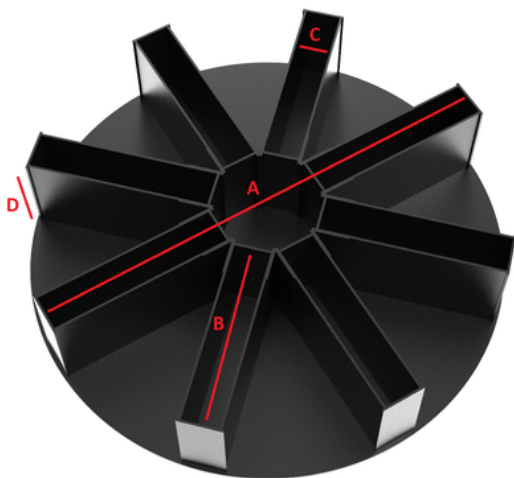
## Y MAZE



### Y-MAZE SPECIFICATIONS

MAZE DIMENSIONS				
	Inner Dimension		Outer Dimension	
Mouse	(A) 15"	(B) 3"	(C) 5"	
Rat	(A) 22"	(B) 4"	(C) 10"	
Material Composition	Acrylic			
Maze Color Options	Black or White			

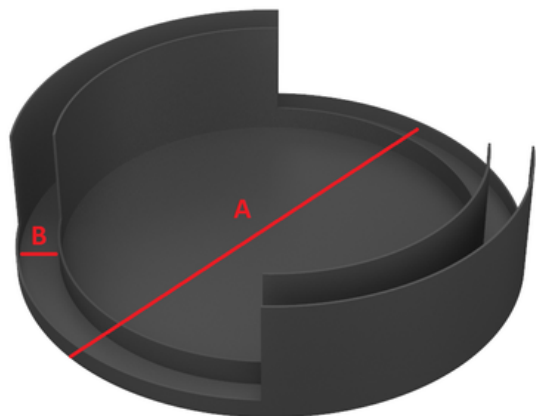
## RADIAL ARM MAZE



### RADIAL ARM MAZE SPECIFICATIONS

MAZE DIMENSIONS				
	Inner Dimension			Outer Dimension
Mouse	(A) 26"	(B) 9"	(C) 3"	(D) 6"
Rat	(A) 47"	(B) 18.5"	(C) 4"	(D) 10"
Material Composition	Acrylic			
Maze Color Options	Black or White			

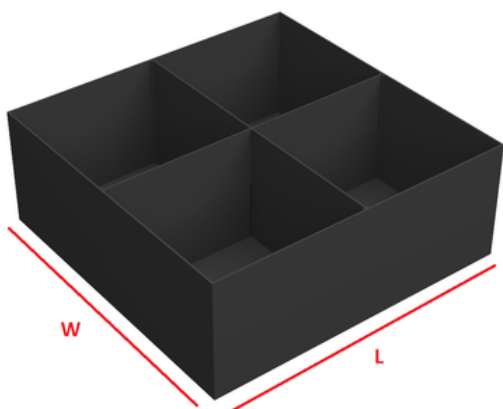
## ZERO MAZE



### ZERO MAZE SPECIFICATIONS

MAZE DIMENSIONS				
	Maze Diameter ID	Inner exploration area	Height of elevated part	Height of each Legs (Not shown)
Mouse	(A) 24" Dia. / 75.40" Circum.	(B) 2"	(C) 6"	12"
Rat	(A) 47" Dia. / 147.65" Circum.	(B) 4"	(C) 12"	18"
Material Composition	Acrylic			
Maze Color Options	Black or White			

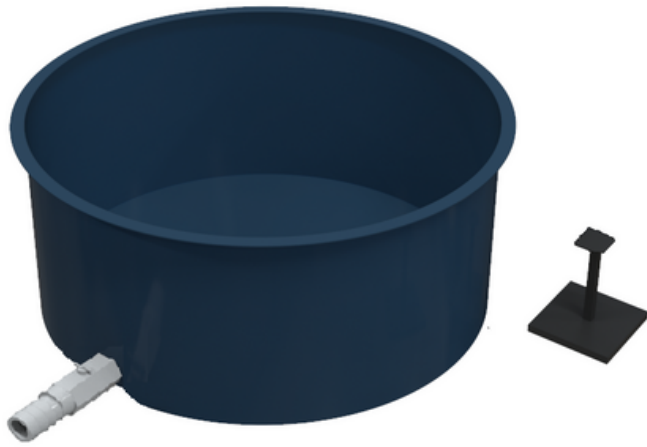
## OPEN FIELD ENCLOSURE



### MULTIPLE UNIT OPEN FIELD ENCLOSURE

Squared Base outer dimension (L x W)	42 "(L) × 42" (W)
Inside Chamber Footprint (L x W)	19.5 "(L) × 19.5" (W)
Maze Color Options	Black or White

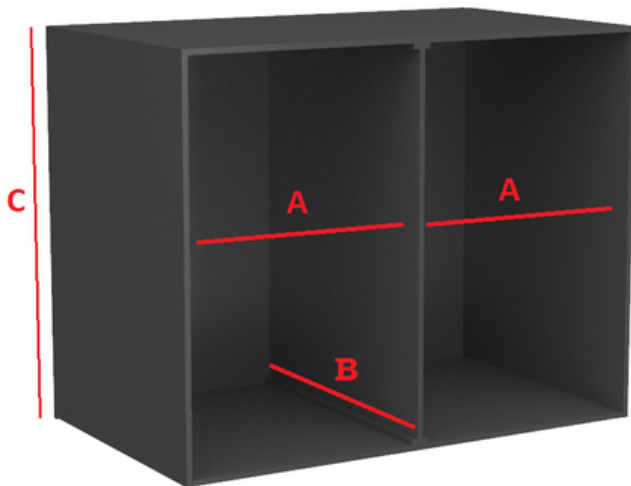
## WATER MAZE:



### WATER MAZE COMPONENTS SPECIFICATION

MAZE DIMENSIONS				
	TANK DIMENSION			PLATFORM DIMENSION
	Inner Diameter	Height (outer dimension)	Capacity (approx.)	
Mouse	(A) 48"	(B) 30"	210 GAL, 49 LBS	Rod height: 12" Squared Base (L X W): 12" x 12" Top Square plate (L X W): 4" x 4" Top Round plate: 4" Diameter
Rat	(A) 72"	(B) 30"	500 GAL, 73 LBS	
Tank Material Composition	FRP			
Platform Material Composition	Acrylic (Transparent)			
Maze Color Options	Black or White			

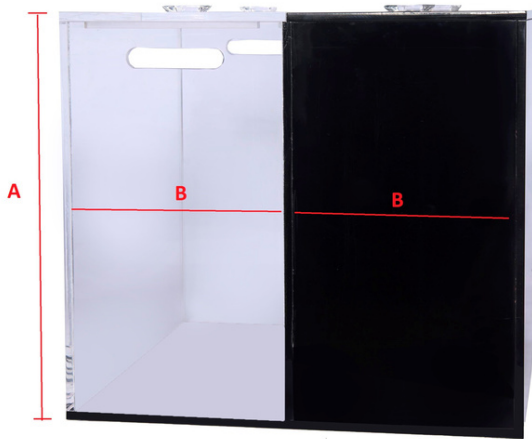
## TAIL SUSPENSION APPARATUS



### TAIL SUSPENSION TEST MAZE SPECIFICATIONS (For 2 Animals)

MAZE DIMENSIONS			
	Inner Dimension		Outer Dimension
Mouse / Rat	(A) 10"	(B) 12" (Depth)	(C) 16"
Material Composition	Acrylic		
Maze Color Options	Black or White		

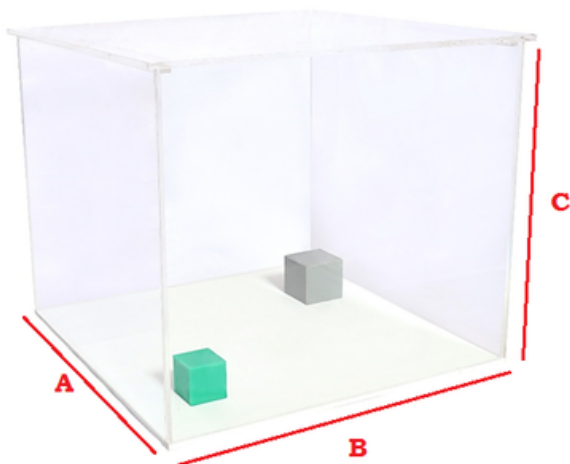
## LIGHT & DARK BOX



### LIGHT & DARK BOX MAZE SPECIFICATIONS

MAZE DIMENSIONS			
	Inner Dimension		Outer Dimension
<b>Mouse</b>	(B) 8"	(C) 16" (Depth)	(A) 14"
<b>Rat</b>	(B) 15.7"	(C) 19.6" (Depth)	(A) 17.7"
<b>Partition Door Dimension</b>	Mouse: 7 cm X 7 cm		Rat: 10 cm X 10 cm
<b>Material Composition</b>	Acrylic		
<b>Maze Color Options</b>	Black or White		

## NOVEL OBJECT RECOGNITION:



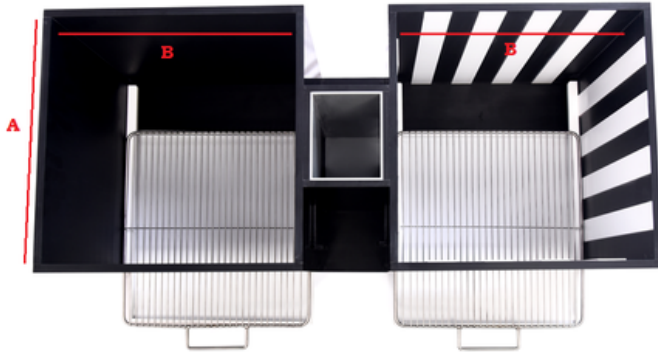
### NOVEL OBJECT RECOGNITION

MAZE DIMENSIONS				
	Maze Inner Dimension			Object Dimension
<b>Mouse</b>	(A) 16"	(B) 16"	(C) 14"	Grey Colored Object (L x W x H) : 2.5" x 2.5" x 2.5" Green Colored Object (L x W x H): 1.5 x 1.5" x 1.5"
<b>Rat</b>	(A) 21"	(B) 21"	(C) 16"	Grey Colored Object (L x W x H) : 4" x 4" x 4" Green Colored Object (L x W x H): 2" x 2" x 2"



<b>Maze Material Composition</b>	Plastic or Acrylic
<b>Object Material Composition</b>	Plastic or Acrylic
<b>Maze Base Color Options</b>	Black or White
<b>Maze Walls</b>	Transparent /Black / White (as per selection)

## CONDITIONAL PLACE PREFERENCE BOX



### CONDITIONAL PLACE PREFERENCE MAZE FOR RAT

MAZE DIMENSIONS			
<b>Rat Compartment dimension (Inner)</b>	(A) 14"	(B) 15"	(C) 15" (Height from Floor grill)
<b>Maze Material Composition</b>	Acrylic		
<b>Maze Color Options</b>	<ul style="list-style-type: none"> <li>• Compartment 1 walls: Black or white</li> <li>• Compartment 2: Black and white pattern, base in same color as of Compartment 1.</li> <li>• Corridor: Grey color</li> <li>• Excreta tray color- white/ black as per selection</li> </ul>		
<b>Door dimensions</b>	Width 4" x height 6"		
<b>Corridor</b>	Length 8" x Depth 4" x Height 15"		

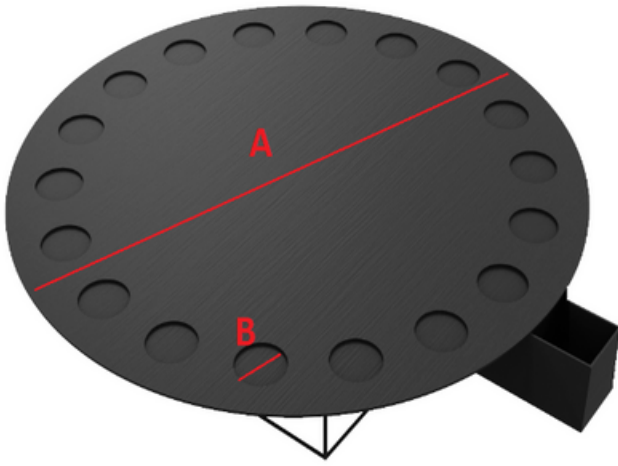
**Note:** supplied with 2 Nos of floor square mesh grill of 9 mm (L) x 9mm (W) & 2 Nos. of black/white colored excreta tray.

### CONDITIONAL PLACE PREFERENCE MAZE FOR MOUSE

MAZE DIMENSIONS			
<b>Mouse Compartment dimension (Inner)</b>	(A) 7"	(B) 8"	(C) 12" (Height from Floor grill)
<b>Maze Material Composition</b>	Acrylic		
<b>Maze Color Options</b>	<ul style="list-style-type: none"> <li>• Compartment 1 walls: Black or white</li> <li>• Compartment 2: Black and white pattern, base in same color as of Compartment 1.</li> <li>• Corridor: Grey color</li> <li>• Excreta tray color- white/ black as per selection</li> </ul>		
<b>Door dimensions</b>	Width 3" x height 4"		
<b>Corridor</b>	Length 6" x Depth 3" x Height 12"		

**Note:** Supplied with 2 Nos of floor square mesh grill of 6 mm (L) x 6mm (W) & 2 Nos. of black/white colored excreta tray

# BARNES MAZE



## BARNES MAZE SPECIFICATION

MAZE DIMENSIONS					
	Diameter of Maze	Diameter of Individual hole	Distance between two consecutive holes	NO. OF HOLES	MAZE STAND DIMENSIONS
Mouse	(A) 36"	(B) 2"	(C) 2.95 "	20	(L × W × H) 24" X 24" X 6"
Rat	(A) 46"	(B) 4"	(C) 2.95"	18	
Material Composition	Plastic or Acrylic				
Stand Material Composition	M.S.				
Maze Color Options	Black or White				
Target tray box	Supplied with 1 pc of target tray box				

### Note:

- Maze color selection: In video tracking application, white colored maze is suitable for black colored animal whereas black colored maze is useful for white colored animal so select the color of maze depending on the animal under the study.
- Maze Dimension may vary by  $\pm 0.5$ ".
- Mazes are supplied in part & Needs to be assembled before usage.
- Please verify the lab door & room dimension prior selecting any type of maze.

Note: Orchid's continuing product development makes specifications subject to change without prior notification.



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