

Системы исследования социального взаимодействия

Описание

По вопросам продаж и поддержки обращайтесь:

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SMART Video Tracking System (Panlab)

SMART is a complete and user-friendly video tracking system for evaluating behavior in experimental animals.

- Standard solutions in Neuroscience
- Tracking, Activity & integrated behavior
- The most user-friendly in the market!
- Flexibility, Productivity, Traceability
- Customized solutions for any application and budget
- Optimal cost/performance ratio!
- Built-in Digital Video Recorder
- Remote START/STOP control included

Item No.	Description
76-0696	Smart V3.0 Super Pack
76-0697	Smart V3.0 Premium Pack
76-0681	SMART platform (needs experimental module)
76-0682	Customizable Experimental Module
76-0688	Open Field Preconfigured Module
76-0690	Water Maze Preconfigured Module
76-0689	Plus Maze Preconfigured Module

Item No.	Description
76-0691	T/Y Maze Preconfigured Module
76-0692	Place Preference Preconfigured Module
76-0693	FST And TST Preconfigured Module
76-0687	Social Interaction Preconfigured Module
76-0695	Smart V3.0 Basic Pack



DETAILS



Smart 3.0, the latest release of Panlab SMART video tracking system features the most flexible and easy-to-learn software for the automated evaluation of behavior in the widest range of pre-clinical and neuroscience applications.

SMART provides data relevant to problems in basic and clinical psychopharmacology. Applications include phenotype characterization (differences between strains, effect of a genetic modification, etc.) and studying the behavioral effects of pharmacologic substances.

Utilizing our advanced image analysis, SMART 3.0 allows the recording of activity, trajectories, events, social interactions, and global activity. SMART 3.0 provides users the versatility of a modular system with the capabilities of a broadband package.

SMART 3.0 was developed with the daily experimental process in mind with an easy-to-use interface and an highly flexible structure to fit well with most applications and budgets. Advanced features ensure reliable data and increased productivity, saving valuable time and resources.

SMART 3.0 emphasizes flexibility, productivity and simplicity - just add your desired settings, SMART 3.0 will do the rest. Simply SMART, simply powerful.

Provided data

- Summary tables directly exportable to Excel and providing calculation for each user-defined zones and/or time intervals
 - Wide variety of standard calculations related to tracking: time/distance/entries in zones, average speed, etc. Advanced calculations also available: alternation triplet, Whishaw's error, mean directionality, parallel index, turning tendency, rotations, rearings, etc.
 - Zone transition, global activity and events list reporting the time evolution of specific calculations and distribution of their occurrence
 - Track coordinates reports (X,Y,Z)
 - Group evolution graphs and Track image exportation
-

Social Box (Panlab)

The social interaction test by pairs provides a popular and standard paradigm to study general social behavior.

- New! Compatible with tethered animals
- Removable compartment dividers allow using the box for many behavioral paradigms
- Material does not retain odors
- Manual sliding doors
- Optimized for video-tracking systems with non-reflecting material

Item No.	Description
76-1157	(LE894T) 3-Compartments Social Test Box for Mice, Tethered Compatible - Requires Grid enclosures (not included)
76-0674	(LE894A) Grid Enclosure for Social Test, Mouse - 2 units are needed for standard experiments
76-1176	(LE875T) 3-Compartments Social Test Box for Rat, Tethered Compatible - Requires Grid enclosures (not included)
76-0949	Grid Enclosure for Social Test, Rat - 2 units are needed for standard experiments



DETAILS



NEW! New models compatible with experiments using tethered animals

The social interaction test by pairs provides a popular and standard paradigm to study general social behavior.

This test allows the experimental subject to freely explore an unfamiliar congener in its home cage or in a neutral environment. Social exploration is measured by the time spent by the experimental subject around the congener as well as the amount and duration of behaviors that compose social interaction (e.g. sniffing, following, grooming, biting, mounting, wrestling, etc). Social avoidance behavior is used in a wide variety of models, for instance for assessing neophobia anxiety and depression-like behaviors.

Our social box provides an ideal experimental environment to conduct social interaction tasks. The box is divided in three interconnected compartments. Sliding doors are available for confining the animal in one specific compartment during the test. In standard experiments, two grid enclosures containing “stranger” mice are placed in the box allowing a close interaction with the animal tested (as well as protection in case one of them manifests strong aggressive behavior).

Two models are available for rats and mice. All our models are now compatible with experiments using tethered animals.

SPECIFICATIONS



Item #	76-1157	76-1176
Model	Mouse	Rat
Box Dimensions L x D x H	60 x 42 x 22 cm (24 x 16.5 x 8.7 in)	120 x 80 x 40 cm (48 x 31.5 x 15.8 in)
Compartments Dimensions L x D x H	20 x 42 x 22 cm (8 x 16.5 x 8.7 in)	40 x 42 x 40 cm (15.8 x 16.5 x 15.8 in)
Box Material	Light Grey Methacrylate floor, transparent walls	Light Grey Methacrylate floor, transparent walls
Grid Enclosure Dimensions D x H	8 x 18 cm (3.1 x 7 in)	20 x 40 cm (7.9 x 15.7 in)
Grid Bars Dimensions	3 mm (0.1 in) diameter, 7.4 mm (0.29 in) spaced	3 mm (0.1 in) diameter, 11 mm (0.43 in) spaced
Grid Enclosure Material	Stainless steel grid, Grey PVC top/bottom	Stainless steel grid, Grey PVC top/bottom

Tube Dominance Test (Panlab)

The tube dominance test is used for investigating social dominance in mice.

- Simple and quick test
- Clear Perspex material resistant to odors and scratches
- Removable central door
- Supporting paws for ensuring the tube stability during the test

Item No.	Description
76-0930	Tube Dominance Test, Mice



DETAILS



The tube dominance test is used for investigating social dominance in mice.

The apparatus consist of a narrow clear Perspex tube with two removable central doors. The tube is provided with two supporting paws for ensuring its stability during the test.

After being habituated to run through the tube individually, two mice are placed in the tube into opposite ends. Once both mice get close to the doors, the doors are opened and the dominant mice will makes the submissive mouse reverse until it get out of the tube. When one animal has all four paws out of the tube, it is declared the loser while the animal remaining inside the tube is the winner, ending the match.

The number of wins is reported as a percentage of total number of matches. Additional information about the social hierarchies can be gained with the measurement of additional parameters such as duration of each match, latency to exit the tube, and more.

SPECIFICATIONS



Specifications	76-0930
Tube Length	30 cm
Tube Diameter	3.4 cm
Distance between Doors respect to the Tube Ends	13 cm
Tube Material	Clear Perspex

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