Системы исследования вознаграждения и зависимости

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PACKWIN Software (Panlab)

Handy software for standard operant conditioning and behavioral procedures en small laboratory animals.

- Even more user-friendly interface!
- Aperture assistant and experimental tool bar
- Modular structure (targeted to specific experiments or fully customizable)
- Straigthforward â€œState-Editorâ€ tool for protocol configurations (no need of specific programming skills
- Assistant panels and specific reports for 5/9 holes procedures, Vogel test, fear conditioning and startle reflex studies
- Operant chamber simulator tool (unique feature in the market!)
- Test boxes function for hardware checking purpose
- Built-in Yoked procedure settings
- Optimal data traceability
- Integrated potent analysis module and plot makers
- Batch analysis and direct exportation to Excel (1 session per row)

Item No.	Description
76-0002	(PACKWIN V2.0) Software Platform for behavior/operant boxes - Needs Experimental Modules
76-0592	(PACKWINCS) Customized Experimental Module (Fully Customizable Protocol and Data Report Edition)
76-0593	5/9 Holes Experimental module (5-Choices Serial Reaction Time task)
76-0594	(PACKWINVT) PACKWIN Vogel Test Experimental Module (Standard Asistants and Data Reports for Pre-test y Test Protocols).

Item No.	Description
76-0701	Fear conditioning Experimental module
76-0702	Startle reflex Experimental module

DETAILS

PACKWIN is a user-friendly and versatile Software platform developed with the aim to offer a powerful tool for conducting a wide range of experiments in different types of behaviour chambers. It typically controls the Panlab standard chambers for operant conditioning, self-administration, 5/9 hole and Vogel test, but its range of compatibility allows working with other behavioural chambers for Active/Passive avoidance and fear conditioning experiments...

Due to his new modular structure, PACKWIN 2.0. can be used in a highly flexible structure (Customised module â€“ CS) allowing the experimenter to build a wide variety of different protocols for the configuration of basic programs for operant procedure (fixed and variable ratio, fixed or variable interval, fixed or variable DRL, positive and negative reinforcement, extinction, probability to obtain a reinforcement, etc.) with or without discriminative stimuli (light, sound) as well as more specific and

complex user-defined protocols (conflict, DMTS, 5 choice serial reaction task etc.). Give the PACKWIN state-editor tool the oportunity to surprise yourself by its straightforwardness (no need of specific programming skills)!! A great number of editable raw data table and outpout numeric data&graph reports are provided integrated in the all-in-one structure of the software.

PACKWIN 2.0. also offers new specific experimental modules providing convenient protocol editor templates and ready-to-use run panels and data reports directly targeted to specific standard experiments such as the 5-choice Serial Reaction Time Task (5/9 hole module â€“ HO) and the Vogel test.

In PACKWIN 2.0 version, a step ahead has been made in terms of user-interface and features that no other software available in the market can offer right now: new aperture assistant and experimental tool bar for guiding the user along the experimental process, new chamber simulator for checking your protocols without interrupting the data acquired from the real chambers, new batch analysis features for increasing the productivity of your experiment, integrated numerical and graph reports, direct exportation to Excel... and many other essential functions!!!!!! Who told you that performing operant conditioning studies was only reserved to experts?

PACKWIN 2.0 is not exclusive to Panlab chambers! Contact us for more information about how to use PACKWIN with your existing set of operant chambers (compatibility with Coulbourn and Med Associates chambers...)

Black & White Place Preference Box (Panlab)

Black and White Place Preference Box for the automated assessment of conditioned place preference and aversion in rodents.

- Compartments with different colour (white or black) separated with a central grey corridor
- Allows a multiple combination between the visual and tactile cues defining each compartment
- Weight transducer technology allows optimizing animal detection in low-contrast conditions
- Up to 8 stations can be connected at once to the PPCWIN software

Item No.	Description
76-0216	(LE890) Black and White Place Preference, Rat
76-0217	(LE891) Black and White Place Preference, Mouse
76-0218	(LE892) Automated Black and White Place Preference, Rat
76-0219	(LE893) Automated Black and White Place Preference, Mouse
76-0011	(PPCWIN V2.0) Software for Control and Data Analysis (needed for Automated models)

DETAILS

The Place Preference Box is a standard experimental chamber for automated assessment of conditioned place preference and aversion in rodents, two tests widely used for screening the reinforcing properties of drugs (or natural stimuli) as well as for investigating the brain neurobiological systems implicated in reward and addiction.

The the Black and White model consists of two Perspex compartments of the same size interconnected by a central grey corridor. The compartments can be differentiated by both visual and tactile cues: the colour of the walls in each compartment (white or black) and the texture of the floors (smooth or rough). The box is provided with transparent frontal walls which may be covered with extractable opaque covers (included). Manually operated sliding doors are provided to manage the access to the two compartments from the corridor.

The experimental box can be supplied with or without automatic animal position detection system. All the place preference box can be associated with the video-tracking system (SMART software) for detection and analysis of animal position throughout the test. This option is not optimal for video tracking detection given the high contrast between the two compartments.

For the automated models (76-0218/LE892and 76-0219/LE893), the detection of the position of the

animal is provided by the weight transducer technology and PPCWIN software.

Panlab also proposes another place preference box - spatial place preference box (see related product) - with optimised design for compartment differentiation without the possible bias introduced by the black and white colour of the compartment of the present box.

SPECIFICATIONS

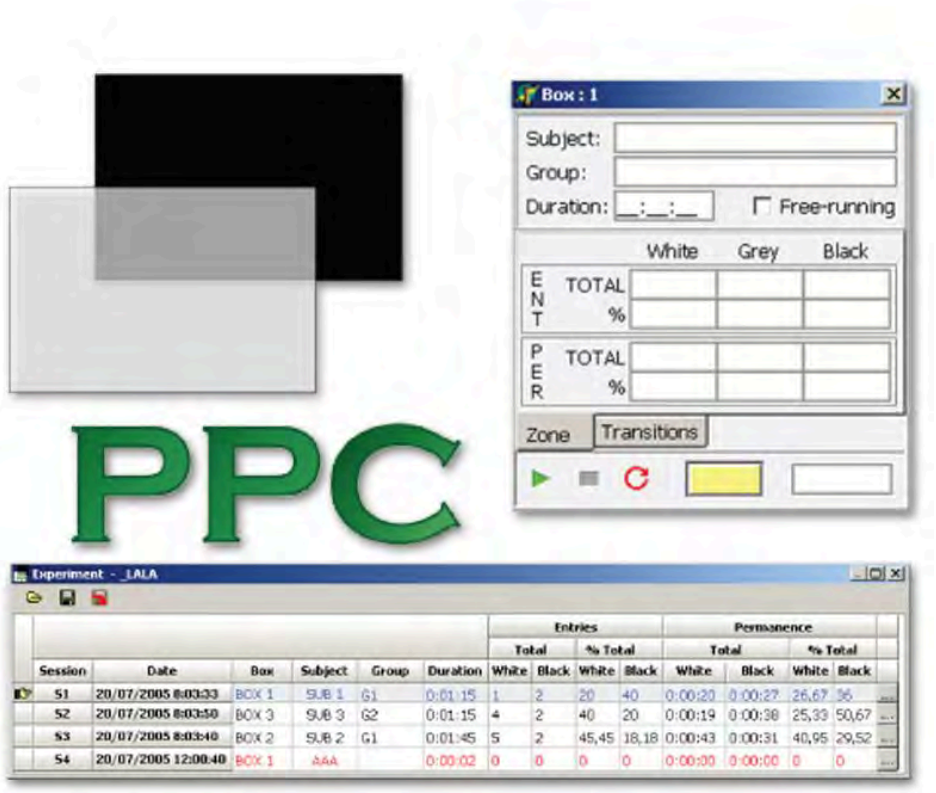
Specifications	76-0216	76-0217	76-0218	76-0219
Catalog Pages	G58	G58	G58	G58
Certification	CE	CE	CE	CE
Corridor Depth	100 mm	72 mm	100 mm	72 mm
Corridor Height	340 mm	130 mm	340 mm	130 mm
Corridor Width	80 mm	72 mm	80 mm	72 mm
Depth	300 mm	130 mm	300 mm	130 mm
Door Height	140 mm	60 mm	140 mm	60 mm
Door Width	100 mm	60 mm	100 mm	60 mm
Height	340 mm	130 mm	340 mm	130 mm
Material Composition	Perspex	Perspex	Perspex	Perspex
Model Number	LE890	LE891	LE892	LE893
Position Detection Techniquie	Weight Transducers	Weight Transducers	Weight Transducers	Weight Transducers
Power Requirements	110/220V, 50/60 Hz	110/220V, 50/60 Hz	110/220V, 50/60 Hz	110/220V, 50/60 Hz
Related Software	PPCWIN	PPCWIN	PPCWIN	PPCWIN
Width	300 mm	100 mm	300 mm	100 mm

PPCwin Software (Panlab)

PPCWIN software for conditioned place preference and black and white test in rodents.

- Easy-to-use software for standard conditioned place preference experiments
- For both place preference and black and white experiments
- A test mode enables immediate checking of the communication between the software and the experimental chambers.
- Current animal position can be visualized in real-time during the acquisition of data
- Provides integrated results
- Tables of result easily exportable in Excel format for further analysis
- RS232 or USB port direct connection

Item No.	Description
76-0011	(PPCWIN V2.0) Software for Control and Data Analysis (needed for Automated models)



DETAILS

The PPCWIN software is an easy-to-use and complete software for monitoring Conditioned Place Preference (or aversion) tests and Black and White experiments (for anxiety). It has been specially designed to work with the Panlab Automated Place Preference and Black and White boxes equipped with weight transducers for the automatic detection of animal position.

PPCWIN controls independently up to 8 experimental chambers. The system includes a test mode enabling immediate and reliable checking of the communication between the software and the experimental chambers.

The Place Preference and Black and White boxes are basically divided in two different compartments connected by a grey corridor/door, respectively. One experiment can be composed of several sessions, depending on the number of experimental groups and animals per group used in the study. PPCWIN is easy to configure as the user only needs to enter the desired duration of experiment and some specific information about the session (subject name, groupâ€¦). During data acquisition, information about protocol state, animal position and current data can be visualized for each cage on the corresponding control window.

PPCWIN provides a raw data table with all the standard parameters for conditioned place preference

and black and white experiments (permanence time in the compartments, number of entriesâ€¦) and a detailed chronological sequence of animal displacements for each session. A report table can be generated containing the results from different stored session. Data from the tables of result can be easily exported in formats widely used to perform complementary analysis.

Self Administration box (Panlab)

The Panlab self-administration box is an entirely modular experimental enclosure designed to conduct a wide variety of different schedules for studying reward and addiction in laboratory animals.

- Entirely modular system
- Reduced number of cables
- Up to 8 stations (or more!) can be connected at once to PC through a single cable

Item No.	Description
76-0342	(LE100265) Lever, Mouse
76-0360	(LE100565) Lever, Rat
76-0336	(LE100251) Photoelectric Detector of Access (Feeder, Drink, and Nose Poke), Mouse
76-0354	(LE100551) Photoelectric Detector of Access (Feeder, Drink, and Nose Poke), Rats
76-0343	(LE100267) Light Stimuli, Mouse
76-0361	(LE100567) Light Stimuli, Rat
76-0335	(LE100250) Pellets Dispenser with Feeder, Mouse
76-0353	(LE100550) Pellets Dispenser with Feeder, Rat
76-0162	(LE1015) Harness Set for Drug Administration

DETAILS

The Panlab Operant Chamber is an entirely modular experimental enclosure designed to conduct operant conditioning procedures (e.g. food reinforcement, DMTS, conflict tests, self-administrationâ€¦).

The operant chamber is made in an entirely modular structure which allows complete disassembling or rearrangement to build a new space of different dimensions/components or to enable storage in the minimum space. It can be easily transformed from rat chamber to mice chamber (or vice versa) with a reduced cost.

A frontal door offers a total accessibility inside the chamber. Walls and cover can be of different material or colour, since they are totally removable.

Each chamber is associated with a Link Box which provides power to up to 8 (expandable depending of the customer configuration) Operant Modules (levers, lights, sound, dispensers, electrical shock...) conferring to the chambers a full autonomy.

Only one cable connects the Link Box to the PC (PackWin Software), this last for advanced protocol configuration and running.

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

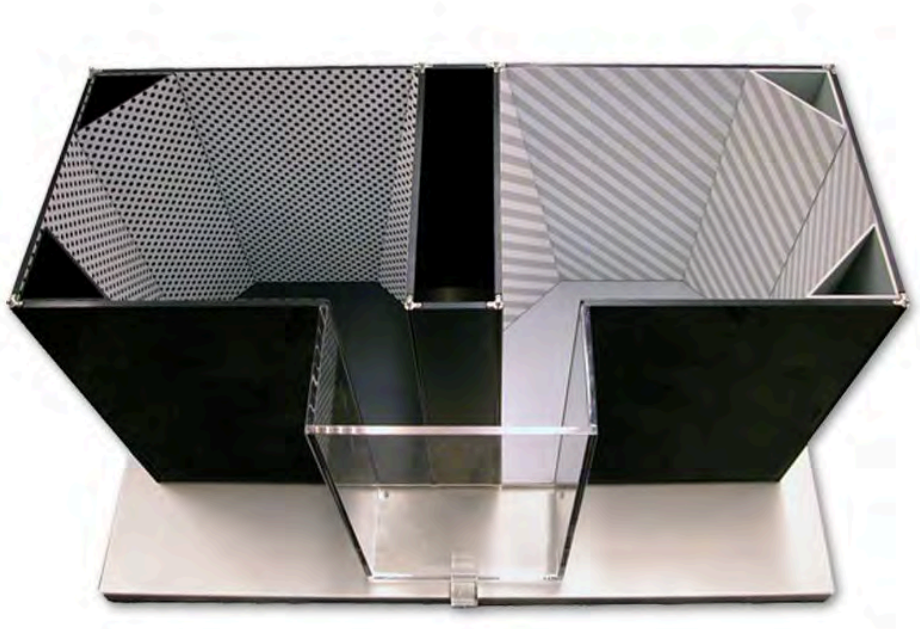
- Summary tables directly exportable to Excel and providing calculation for each user-defined zones and/or time intervals
- Wide variety of standard calculations related to tracking: time/distance/entries in zones, average speed, etc. Advanced calculations also available: alternation triplet, Whishaw's 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

Spatial Place Preference Box (Panlab)

The spatial place preference box is an experimental chamber developed with the aim to optimize place preference and aversion studies in small laboratory animals, especially mice.

- Allows a multiple combination between the visual, tactile and spatial cues defining each compartment
- Optimize the differentiation between compartments
- Minimize initial place preference during pre-test phase
- Transparent walls to minimize time spent in the corridor
- Optimize subject detection using a video-tracking system

Item No.	Description
76-0279	(LE897) Spatial Conditioned Place Preference, Rat
76-0278	(LE895) Spatial Conditioned Place Preference, Mouse
76-0441	(LE898) Automated Spatial Place Preference, Rat-Position Detection Weight Cells (needs PPCWIN software)
76-0376	(LE896) Automated Spatial Place Preference, Mouse - Position Detection Weight Cells (needs PPCWIN software)
76-0695	Smart V3.0 Basic Pack
76-0277	(CAMROOF) Roof Camera Support
76-0011	(PPCWIN V2.0) Software for Control and Data Analysis (needed for Automated models)



DETAILS

The Spatial place preference box is an experimental chamber developed with the aim to optimise place preference and aversion studies in small laboratory animals, especially mice. The design of the box is fruit of a close collaboration with eminent Professor Dr. Rafael Maldonado and Dr. Olga Valverde from the Laboratory of Neuropharmacology in Barcelona (Spain).

The apparatus consists in a box with two equally sized compartments interconnected by a rectangular corridor. Originally, the compartments are differentiated by the motifs painted on the walls (dots or stripes) and the colour (different shade of grey tones, light or dark) and texture (smooth or rough) of the floor. The innovation brought by the Panlab box is the possibility to combine a new additional spatial dimension to allow the animal differentiate the different compartments in a more discriminative manner. Transparent walls are also used to minimize the time the animal spent in the corridor.

The introduction of these new discriminative elements allows:

- Optimising the results obtained in the place preference and aversion paradigms (low variability in the response, reduced number of animals per group...)
- Organizing the discriminative elements in a wide variety of configurations for studies evaluating spatial or contextual memory

- Using the elements as discriminative cues associated with drug exposure in diverse other experimental designs.

All the spatial place preference box can be associated with the video-tracking system (SMART software) for detection and analysis of animal position throughout the test.

For the automated models (76-0441/LE898 and 76-0278/LE895), the detection of the position of the animal is provided by the weight transducer technology and PPCWIN software.

SPECIFICATIONS

Specifications	76-0279	76-0278
Catalog Pages	G59	G59
Corridor Depth	13 cm	7 cm
Corridor Height	45 cm	25 cm
Corridor Width	25 cm	20 cm
Model Number	LE897	LE895
Mouse Cage Depth External		27 cm
Mouse Cage Depth Internal		18 cm
Mouse Cage Height External		25 cm
Mouse Cage Height Internal		25 cm
Mouse Cage Width Internal	45 cm	20 cm
Mouse Cage Widtht External		46 cm
Rat Cage Depth External	88 cm	
Rat Cage Depth Internal	40 cm	
Rat Cage Height External	47 cm	
Rat Cage Height Internal	34 cm	
Rat Cage Width External	45 cm	

Specifications	76-0279	76-0278
Related Software	PPCWIN	PPCWIN
Texture	One side of floor is textured, other side is smooth	One side of floor is textured, other side is smooth
Walls Width	6 mm	6 mm

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