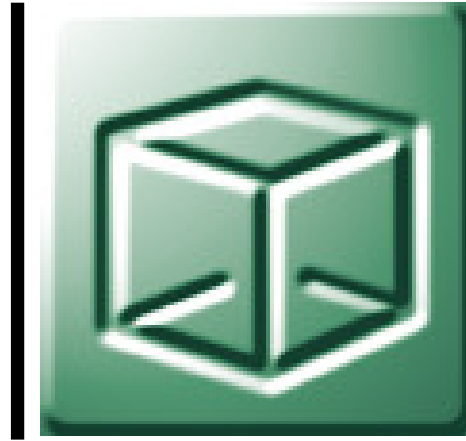
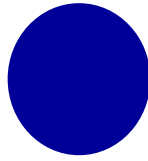


EXPERIMETRIA LTD.

Brochure



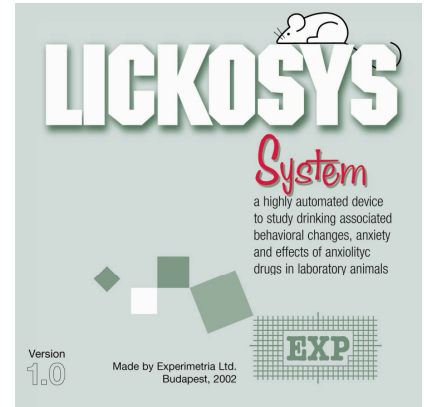
# SYSTEMS FOR *BEHAVIOUR* INVESTIGATIONS

## Lickosys



[www.experimetria.com](http://www.experimetria.com) ●●●

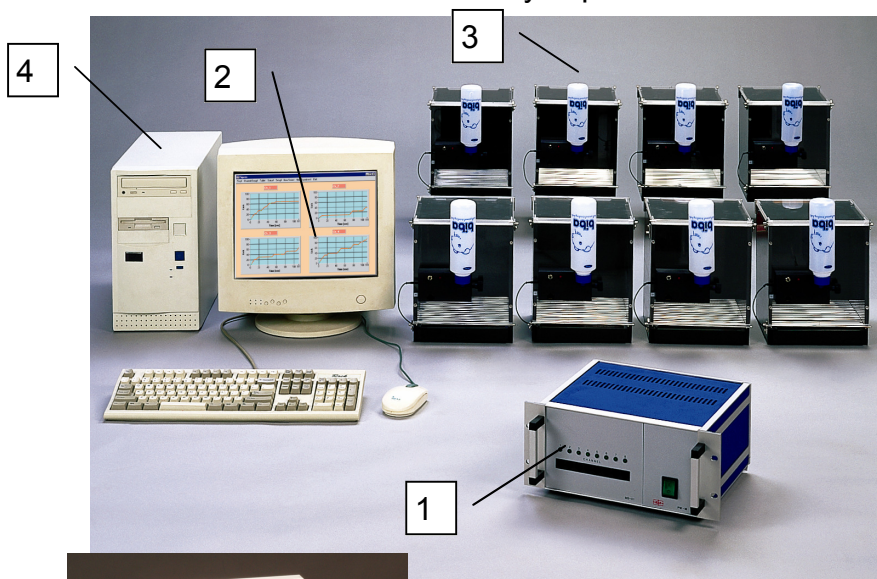
# LICKOSYS SYTEM



## Features:

- Protected data storage
- Independent multi-cage control
- 8-channel simultaneous recording
- High-resolution event-sampling rate
- On-screen status report for each cage
- Programmable experimental parameters
- 4-channel online graphic display (selectable)
- Export files in ASCII format for further analysis
- Real time representation of lick responses, signals and shock delivery

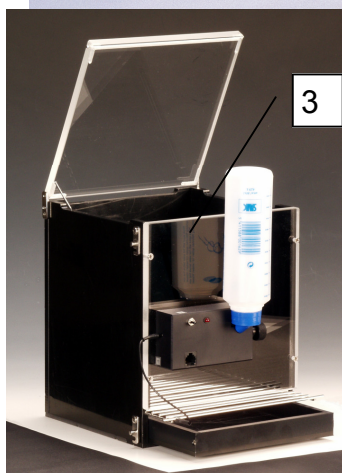
Experimetria LICKOSYS is a highly automated device to study drinking associated behavioral changes, anxiety and effects of anxiolytic drugs in laboratory animals. This simple but very reliable device is suitable for many experiments.



## Equipment offered:

1. Experimetria MS-01 device
2. Experimetria MemoStress software
3. Experimetria animal cage
4. Interface card IBM-compatible PC (optional)

**Special note:** If requested, cages with transparent floor are available for video-recording

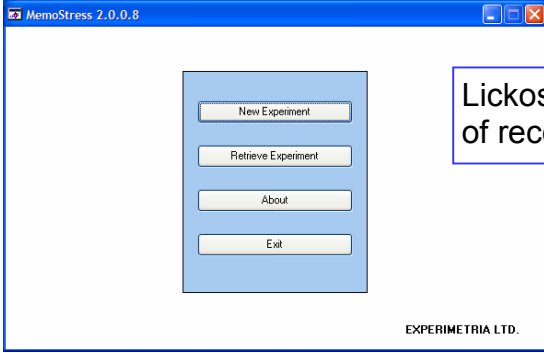


**Vogel test:** decreased number of licks due to shocks through the drinking tube, and its reversal by anxiolytic drugs. Conditioned emotional response or conditioned suppression: conditional decrease of licks as a consequence of association of shocks through the drinking tube with a discriminative signal – a conditioned fear model; and cessation of fear after treatment with anxiolytic drugs. A unique feature of the Experimetria LICKOSYS is its innovative technical making: a special electronic arrangement ensures proper current flow virtually independent of the changing weight and/or impedance of the test animal. In other words, LICKOSYS works with an extremely low error rate.

**Subjects:** small laboratory animals (rats, mice, gerbils, hamsters, etc.)

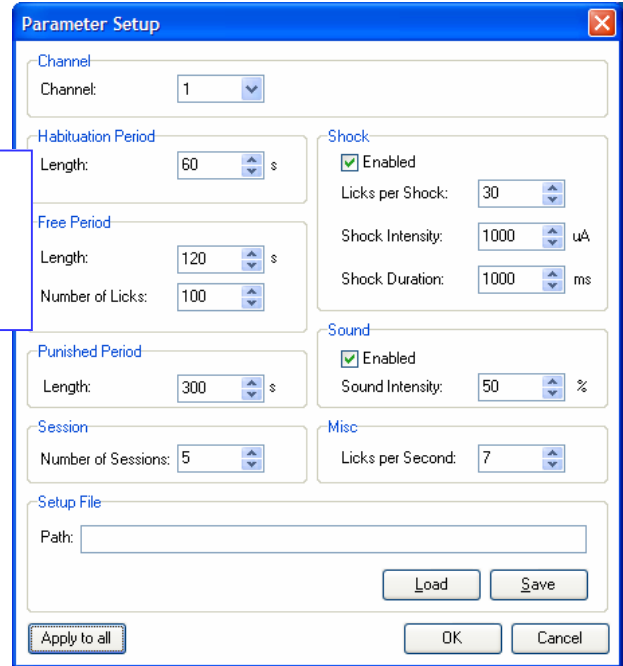
## Literature:

- Vogel JR, Beer B, Clody DE (1971): A simple and reliable conflict procedure for testing anti-anxiety agents. *Psychopharmacologia (Berl.)* **21**, 1-7
- Geller I, Seifter J (1960) The effects of meprobamate, barbiturates, d-amphetamine and promazine on experimentally induced conflict in the rat. *Psychopharmacologia* **1**, 482-492
- Commissaris RL, Xie Z, Ninichuk PJ, Markovska, VL (1996) Multiple within-day conflict testing to define the time course of anxiolytic drug effects. *Pharm.Biochem.Behav.* **53** (2), 369-377

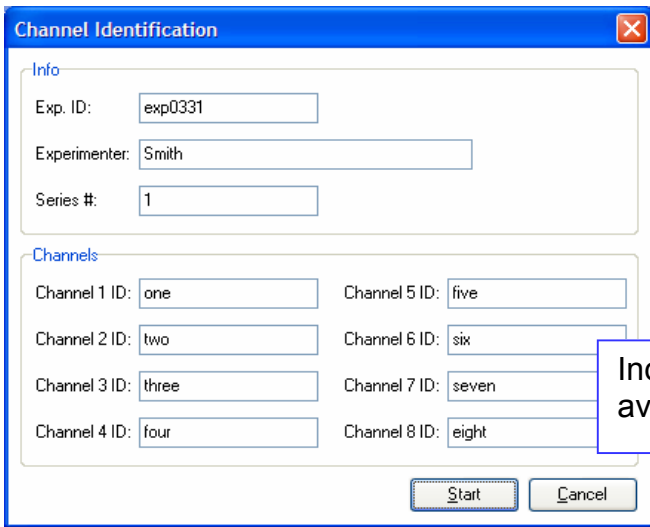


Lickosys software offers an easy and handy operation of recording, storage and analysis of data.

Parameters can be set separately but the first channel set-up can be copied to the other channels. Previously saved channel set-ups can be loaded, too.



Individual channel identification is available.



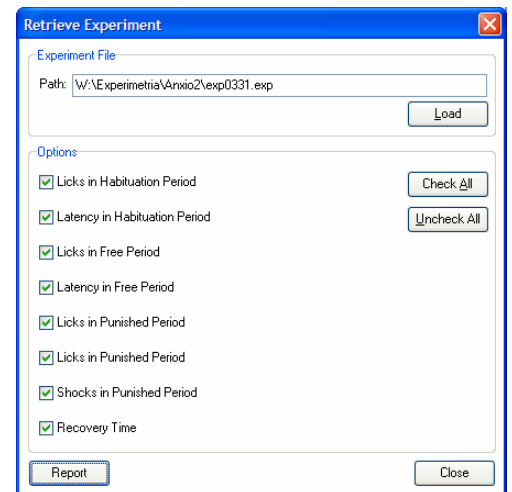
Eight channels are appearing on the screen and to zoom one of them is a matter of a mouse click.

The software stores the recorded data in ASCII format. Thus the information can be exported to other spreadsheet or analysis software.

### Example for the imported data::

#### EXPERIMENTAL REPORT

Date of Experiment: 2001.04.25  
 Start of Experiment: 14:11  
 End of Experiment: 14:17  
 Filename: c:\Anxio\proba2.exp  
 Experimenter: Smith  
 Setup:



	Ch_1	Ch_2	Ch_3	Ch_4
H_PER[s]:	60	0	0	0
F_PER[s]:	60	0	0	0
P_PER[s]:	60	0	0	0
N_of_S:	2	0	0	0
L/sec:	7	7	7	7
L/shock:	7	1	1	1
SK_INT[mA]:	Dis	Dis	Dis	Dis
SK_DUR[ms]:	Dis	Dis	Dis	Dis
SD_INT[%]:	10	Dis	Dis	Dis
	Ch_5	Ch_6	Ch_7	Ch_8
H_PER[s]:	0	0	0	0
F_PER[s]:	0	0	0	0
P_PER[s]:	0	0	0	0
N_of_S:	0	0	0	0
L/sec:	7	7	7	7
L/shock:	1	1	1	1
SK_INT[mA]:	Dis	Dis	Dis	Dis
SK_DUR[ms]:	Dis	Dis	Dis	Dis
SD_INT[%]:	Dis	Dis	Dis	Dis

#### Data produced:

- Number of shocks
- Number of licks in each session
- Lick latency – delay of the first lick in a given period
- Suppression time – time elapsed between the first shock and the following lick

#### Experiment Results:

Series	Channel	Session	LIH	LAH	LIF	LAF	LIP	LAP	SKP	RCT
1	Ch_1	1	148	7	57	1	47	1	0	
1	Ch_1	2			94	23	58	1	0	