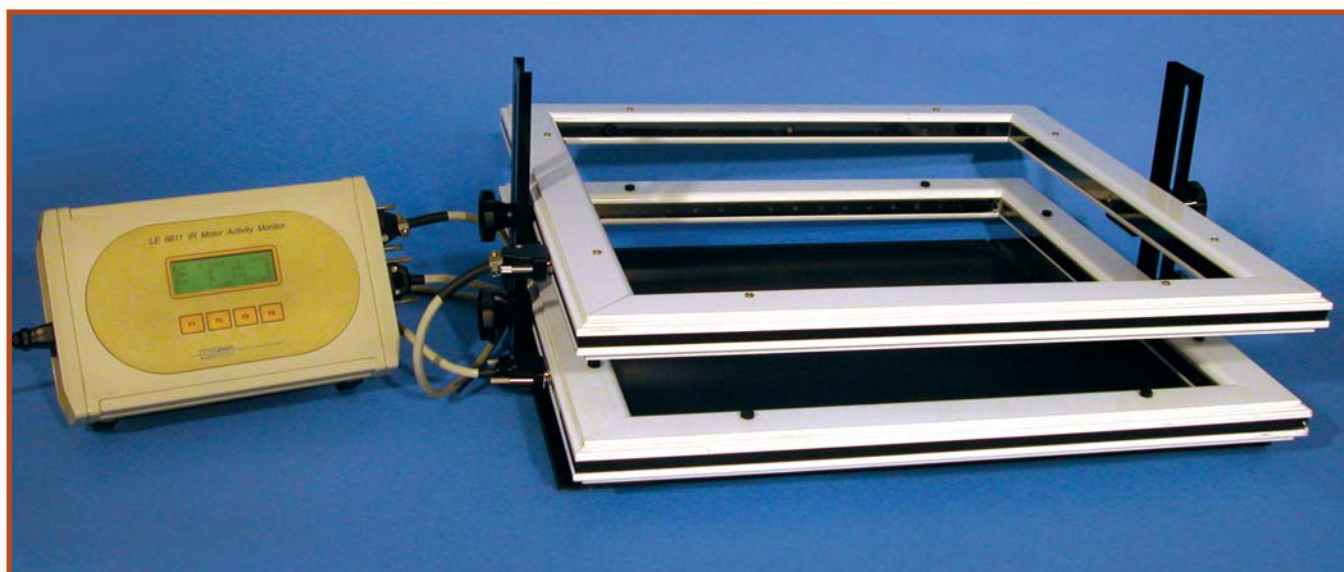


LE 8000 INFRARED SERIAL SYSTEM

TO MEASURE SPONTANEOUS ACTIVITY BY MEANS OF PHOTOELECTRIC CELLS



LE 8812: System composed by a Frame (LE 8815), a Frames' support (LE 8817) and a control unit (LE 8825).

LE 8811: System composed by two Frames (LE8815), a Frames' Support (LE 8817) and a control unit (LE 8825).

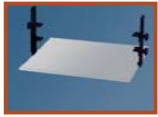
The sensor system is configured by 32 beams of infrared photocells that are placed inside the X and Y axes of a square frame (two different sizes of Frames are available).

The frames can be either controlled by independent units or directly by a computer.

Besides, a series of accessories can complement and expand the possibilities of the System.

Accessories

Frames: LE8815 LE8816



Frame Support

LE8817 LE8818

The height of the frames can be adjusted from 30 to 200 mm



Arena

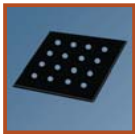
LE8814 LE8813

Height: 350 mm



Two Animals (needs Arena)

LE8821 LE8823

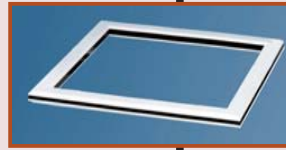


Hole Board

LE8820 LE8824

Control

Option 1



LE 8825

- Controls up to 2 Frames
- Stores the data
- Up to 200 intervals of 1hour can be programmed
- Ready to be used in sterile rooms and afterwards transfer gathered data to a PC
- RS232 Communication

SEDACOM
Data Software



ACTI-TRACK
Tracking Software

- Controls up to 32 Frames

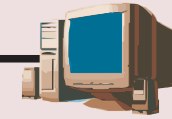
Option 2



LE 8822

- Controls up to 4 frames
- Needs a PC online
- The software is included
- RS232 Communication

SEDACOM
Data Software



ACTI-TRACK
Tracking Software

- Controls up to 32 Frames

Reference	Beams	Spaced	Measures
LE8815	16 x 16	25 mm	450 x 450 mm
LE8816	16 x 16	13 mm	220 x 220 mm

FRAMES are equipped with 32 infrared photocells, 16 placed in axis X and 16 placed in axis Y. Each photocell works at a wavelength of 950 nm and its information is multiplexed at a rate of 40Hz.

Linking with Acti-Track



16

(.....)

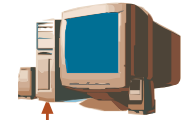


2



1

RS232



General Features

Frames can work to measure either:

- General activity (one or several animals); or,
- Locomotive and stereotyped movements; or,
- Rearings; or
- Curiosity

Up to 15 levels of motor sensibility can be selected in order to adapt the frames to the typology of the animal (rats, mice ...).

- Fast or slow movements
- Speed
- Fast or slow stereotypes
- Length of the rearing
- Curiosity Latency
- Inactivity

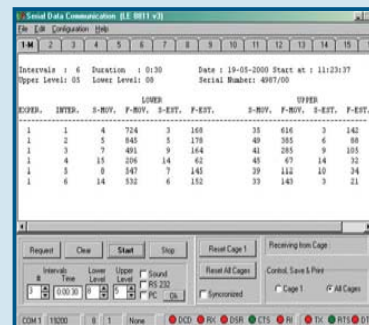
The system can check the photoelectric beams in order to ignore those beams that are obstructed by objects (e.g. the walls of a cage).

Working with SEDACOM

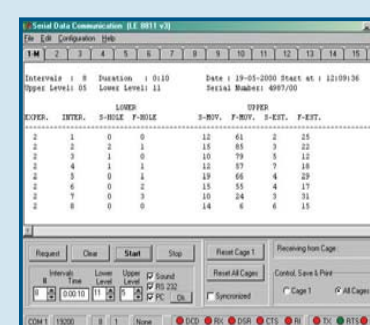
Windows 95, 98, 2000, NT y XP

SEDACOM is a data acquisition software which can be used with both LE 8825 and LE 8822 units.

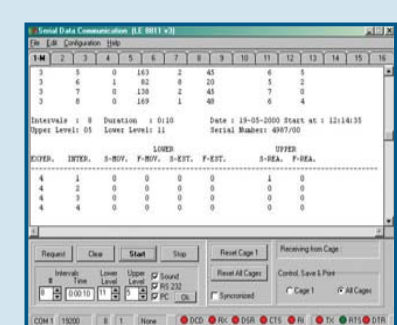
Uses the ASCII format so that the results can be easily exported to any statistical program.



Two Frame as Actimeter



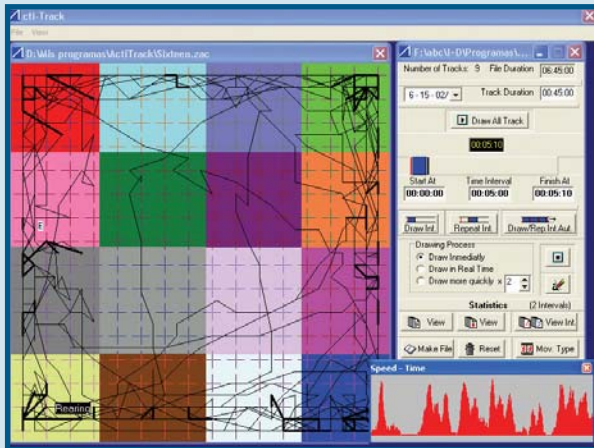
Hole Board and Activity



Activity and Reading

Acti-Track

Windows 95, 98, 2000, NT y XP



Analysis of the trajectories in predefined zones and localization of the rearings.

Historical File

TRACK INFORMATION
 File Track Number : 1
 Experimenter : David
 Subject Identification: 10
 Subject Track Number : 10
 Track Date & Time : 02/12/2003 13:53:11
 Sampling Time : 0,2
 Calibration Units : cm
 Number of Samples : 13501
 Number of Rearings : 566
 Comments :

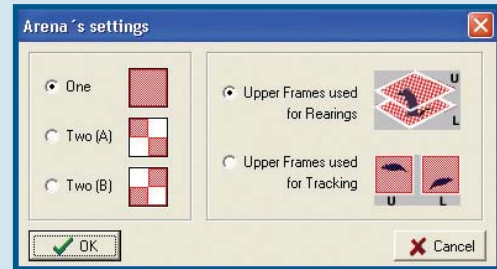
INTERVAL 1

From 00:00:00 to 00:04:57

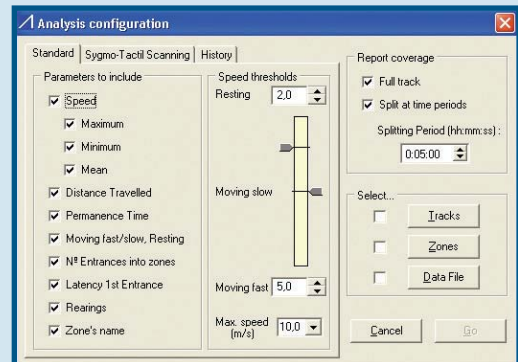
Trans	Z. Num.	Z. Name	E. Time	Per. T.	Ac. P. T.	En
1	3	Zone 3	0,0	14,8	14,8	
2	9	Zone 9	14,8	0,2	0,2	
3	3	Zone 3	15,0	0,8	15,6	
4	8	Zone 8	15,8	2,6	2,6	
5	3	Zone 3	18,4	0,8	16,4	
6	8	Zone 8	19,2	0,4	3,0	
7	3	Zone 3	19,6	1,0	17,4	
8	8	Zone 8	20,6	0,4	3,4	
9	3	Zone 3	21,0	0,4	17,8	
10	8	Zone 8	21,4	0,4	3,8	
11	3	Zone 3	21,8	0,2	18,0	
12	8	Zone 8	22,0	0,4	4,2	
13	3	Zone 3	22,4	0,2	18,2	
14	8	Zone 8	22,6	4,0	8,2	
15	7	Zone 7	26,6	1,0	1,0	
16	2	Zone 2	27,6	4,0	4,0	

Save Clear Print

Example of how the results of the transitions between zones analysis look.



Configuration of 1, 2 or 4 independent arenas for each set of frames.



Several kinds of analysis can be performed, and the parameters of the analysis can be selected at will. Besides, the user can select the analysis to embrace the whole of trajectories or different intervals of it.

Interval's File

TRACK INFORMATION
 File Track Number : 6
 Experimenter : David
 Subject Identification: 15
 Subject Track Number : 11
 Track Date & Time : 02/12/2003 14:43:25
 Sampling Time : 0,2
 Calibration Units : cm
 Number of Samples : 13501
 Number of Rearings : 464
 Comments :

INTERVAL 1

From 00:00:00 to 00:05:00

Z. Num.	Z. Name	V. Max	V. Min	V. Mean	Dist	D (%)	P. Time	PT (%)
1	Zone 1	18,9	0,0	5,6	202,2	8,6	36,0	12,0
2	Zone 2	20,1	0,0	5,7	243,6	10,4	42,4	14,1
3	Zone 3	24,1	0,0	6,0	359,9	18,4	59,6	19,9
4	Zone 4	23,2	0,0	5,5	197,0	8,4	35,6	11,9
5	Zone 5	19,2	1,1	11,4	109,7	4,7	9,6	3,2
6	Zone 6	18,9	0,0	11,6	132,2	5,7	11,4	3,8
7	Zone 7	21,1	0,4	10,6	159,1	6,8	15,0	5,0
8	Zone 8	20,7	0,4	8,4	163,0	7,0	19,4	6,5

Save Print Close

Standard results presentation.



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