

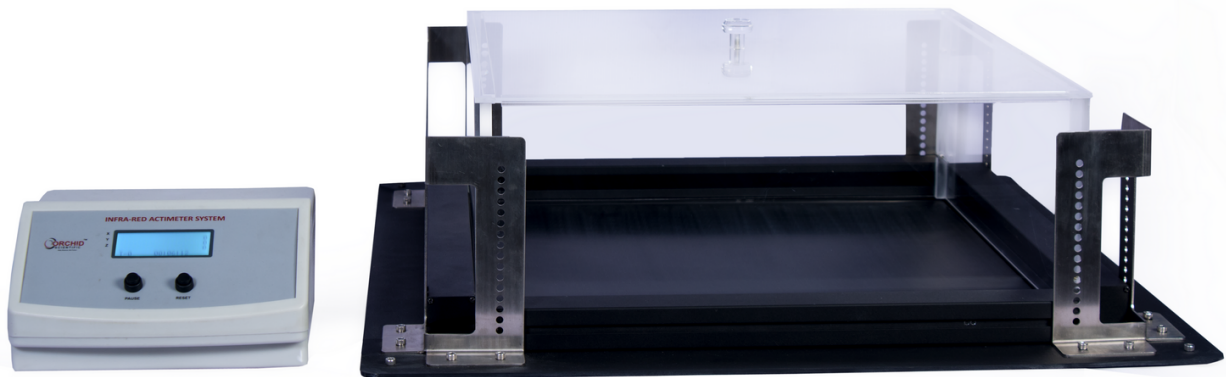
Infrared Actimeter

TO STUDY SPONTANEOUS MOTOR ACTIVITY IN OPEN FIELD

Orchid's Infra-red Actimeter is used to measure spontaneous activity by means of infra-red beams. Orchid's Infra-red (IR) Actimeter represents an ideal tool for assessing loco-motor activity & exploration in rodents. The system represents a reliable system for easy & rapid drug screening in both day & night light conditions.



Designed To Measure Spontaneous Activity By Means Of Infra-red Beams.



The system may be used evaluation of

- Spontaneous locomotor activity
- Exploration / curiosity (Nose-spoke detection in hole-board)

The IR Actimeter system is basically composed of one square frame, frame stand & hole board plate. The frame is equipped with 32 IR cells, out of which 16 cells are on X-axis & 16 cells are on Y-axis. The instrument control panel will display number of beam brakes by animal on all axis and total of all in both actimeter and hole board mode. Automatic cut off, experiments name, comments, sex, group and reading averaging options can be availed while using in online mode.

FEATURES:

- The same instrument useful for Actimeter study and Hole Board Study
- Maintenance-free compact system
- Minimum lightening conditions required
- The same system can be upgraded for Z axis
- Software for Data Analysis & Report generation for experiments done in an online mode
- Provision to add experiment name, comments, animal sex, animal type, mode selection, number of groups and animals per group in software
- Provision to set cut-off timer in online mode

- Graphical presentation in software report
- Data can be converted to Excel & Pdf files for further analysis
- Automatic Reading averaging in software

SYSTEM SPECIFICATION & MODELS:

Model	Number of IR Frames	Number of IR Beams per frame	Number of Holes & Hole diameter for Hole Board Plate for mice	Number of Holes & Hole diameter for Hole Board Plate for Rat
ACT-01	X Axis Y Axis (transmitter & receiver pair)	16 IR beams per frame	16 holes of diameter 17mm	16 holes of diameter 27mm

ORDERING INFORMATION:

Product	Model	Power requirements	Accessories
ACT-01	CE Compliant	220/230V AC 50Hz 110/120V AC 50-60Hz*	<ul style="list-style-type: none"> • Supplied with X axis, Y axis frames. • Hole board plate for mice & rat. • Software for data transfer.

Optional: Frame for Z Axis

*Needs to be specified in the order information

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

SOFTWARE REPORT FORMATS :

The image displays two screenshots from the ORCHID Scientific software. The left screenshot is an 'Experiment Report' for experiment ID 50, dated 26-May-19. It includes a table of results and a bar chart. The right screenshot is the 'Experiment Details' interface, showing fields for experiment information, animal details, and a grid for beam counts.

Group No.	Alternate Group No.	Animal No.	Alternate Animal No.	X Count	Y Count	Z Count	Total	Exp. Time (Sec)
1	GA1	1	A11	9	9	0	17	60
1	GA1	2	A12	6	7	0	13	60
Average				7.50	8.00	0.00	15.50	
2	GB1	3	B11	20	20	0	40	60
2	GB1	4	B12	44	12	0	56	60
Average				32.00	16.00	0.00	48.00	



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