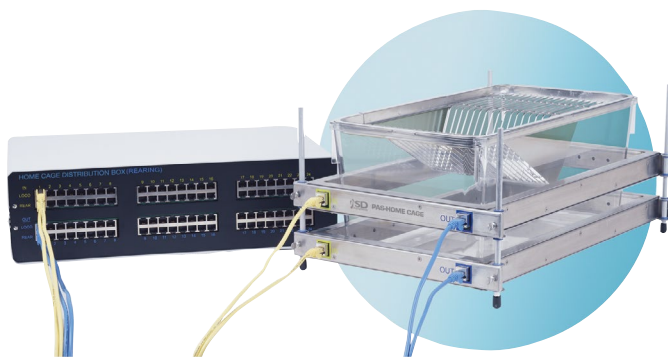


# PHOTOBREAM ACTIVITY SYSTEM - HOME CAGE

*The most powerful, flexible and easy to use system for animal screening studies*



*PAS- Home Cage with Rearing Option*

## Features & Benefits

- » Configure up to 32 test stations for rapid testing of large subject groups
- » Ability to run 24 hours a day for a full week without user intervention
- » 4 x 8 photobeam configuration precisely tracks the subject's path
- » Accurately records ambulation movements, fine movements, rearing, and time stamped (x,y) positions
- » Real time reporting of activity
- » Ability to graphically view and play back the subject's path
- » All study data is stored in a database, providing quick and easy export
- » Optional rearing frames available

## PRODUCT OVERVIEW

SDI's Photobeam Activity System - Home Cage (PAS-HC) provides an affordable and flexible solution for long term activity testing. PAS-HC utilizes a laboratory's standard transparent cages, thus reducing the cost of a system. The system can be configured with up to 32 stations with the optional rearing frames for testing large subject groups. PAS-HC supports the rapid exchange of subjects in short studies, while affording the ability to run 24 hours a day for a full week without user intervention.

PAS-HC utilizes a 4 x 8 photobeam configuration to track the subject's path in its home cage. Optional features include rearing frames that are infinitely adjustable to accommodate subjects of different sizes. PAS-HC takes full advantage of the Windows® operating system with data organization and management software that combines power and flexibility with ease of use. PAS-HC utilizes a database to store all study results in a single file in table format ready for export. This eliminates the need to cut and paste multiple files together in order to export study

results to statistical packages. PAS-HC accurately records ambulation movements, fine movements, rearing (if option is present), and time stamped (x,y) positions. PAS-HC additionally reports central vs. peripheral counts, zone entries, time in zone, distance traveled, speed and resting time. Powerful software features provide the ability to graphically view and play back the subject's path in a choice of eight different speeds.

## PHOTOBREAM ACTIVITY SYSTEM- HOME CAGE COMPONENTS

- › 4 x 8 Photobeam Mounting Frame
- › Control Unit
- › Software
- › User Manual
- › All Cables and Connectors

**PHOTOBAM ACTIVITY SYSTEM- HOME CAGE SPECIFICATIONS**

|                        |  |
|------------------------|--|
| Frame Dimensions       | Inside Dimensions: 10" (W) x 18 1/2" (L) Outside Dimensions: 11 1/2" (W) x 20" (L) |
| Weight                 | 4 lbs.   |
| Composition            | Stainless Steel Frames   |
| Maximum # Stations     | 32   |
| PAS Distribution Box   | 14 1/2" (W) x 10" (D) x 4 1/2" (H)   |
| # of Photobeams        | 4 x 8  |
| Photobeam Spacing      | 1 15/16"   |
| Optional Rearing Frame | Frame dimensions as above with 8 beams – 1" apart                                  |
| Standard Cable Length  | 12 ft.   |
| Certifications         | CE<br>FDA CFR Part 11 (optional, extra cost item)                                  |

**SDI PHOTOBAM ACTIVITY SYSTEM - HOME CAGE REQUIREMENTS**

Windows XP/Windows 7 compatible computer system with USB connection. Minimum disk and memory sizes specified to support Windows XP/Windows 7 are acceptable.

**SDI CONFIGURED COMPUTERS**

SDI offers high performance Cobalt™ Configured Computers that are pre-installed with the Windows® operating system and applicable SDI software. If required, SDI will pre-install PC Interface cards and all relevant drivers. Each computer is fully tested with your system prior to shipment. When your SDI system arrives, all you have to do is unpack it, attach the cables and begin testing.

**FOR MORE INFORMATION**

To learn more about SDI behavioral testing systems or to view the online PAS-HC overview presentation, please visit [www.sandiegoinstruments.com](http://www.sandiegoinstruments.com). If you have any questions or would like to request a quote please call (858) 530-2600 or email us at [sales@sandiegoinstruments.com](mailto:sales@sandiegoinstruments.com).

**SDI ACTIVITY TEST SYSTEMS**

- › Photobeam Activity System-Home Cage
- › Photobeam Activity System-Open Field
- › Place Preference
- › Rotometer

The image shows three screenshots of the SDI software interface. The top screenshot is a dialog box titled 'Create New Sessions Database' with options for initialization and database selection. The middle screenshot is a 'Timing' table with columns for 'Chamber' (Sty-001 to Sty-005) and rows for 'Start/Stop', 'Switch', 'Phase Int', 'Interval', 'Phase Time', and various photobeam (PB) and photobeam switch (PSW) parameters. The bottom screenshot is a 'Run Session' table with columns for 'Beam Snaphots' (0 to 5) and rows for 'Chamber', 'Start/Stop', 'Switch', 'Phase Int', 'Interval', 'Phase Time', and various photobeam (PB) and photobeam switch (PSW) parameters.



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