

Noninvasive blood pressure system for mice and rats

Accurate & consistent measurements

- » up to 8 rodents on the same system
- » automatically measure blood pressure in real-time
- » 99% accurate to direct blood pressure & telemetry
- » clinically validated Volume Pressure Recording (VPR)
- » diastolic blood pressure measured, not just a calculated value
- » dark-skinned mice (C57BL/6) without difficulty
- » awake or anesthetized animals
- » MRI compatibility : anesthetized animals in a radiological environment



High throughput - 2 to 8 animals

Parameters

- » 6 blood pressure parameters: systolic, diastolic, mean BP, heart rate, tail blood volume & blood flow
- » for mice as small as 8 grams to rats as large as 950 grams

HOLDERS

- » clear acrylic holders : unrestricted breathing & complete visibility to the researcher
- » seven holder sizes available
- » tail is unrestrained to allow for regular tail movement



Holders & occlusion cuffs, placed around the subject's tail

Data acquisition software

- » real-time monitoring of all parameters from all subject
- » data can be exported to spreadsheets or other programs
- » set parameters that will automatically accept or reject readings (dramatically reduces the amount of user intervention)



Volume Pressure Recording (VPR) systems calculate blood pressure by determining the tail blood volume with a sensor and an occlusion tail cuff.

Noninvasive VPR allows for highly accurate blood pressure readings in rats and mice.



differential pressure transducers

