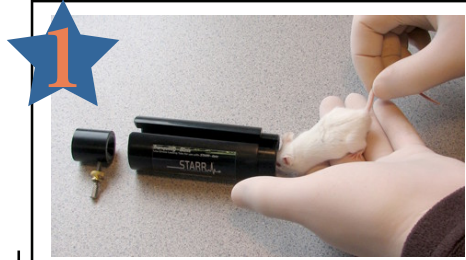


MouseQ[®]

Diagnosis of Cardiopulmonary Health
As Simple as 1, 2, 3

Easy Unstressed Loading of Mouse or Rat

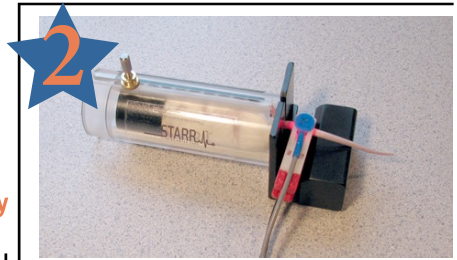


Tranquility - Base[™]

Loading Tube

Accurate Unanesthetized Measurements

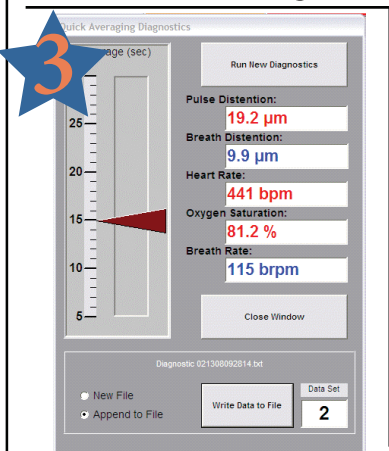
Instantly Diagnose
or
Monitor Continuously
Without Anesthesia



STARR - Gate[™]

Restraining Tube

Quick Automatic Diagnosis of Health



Arterial O2 Sat.

Pulse Rate

Pulse Distention

Breath Rate

Effort to Breathe



Data Quality Control Software

Automated Spot-check Software

Analog Output Module



ANALYSIS:

THE MOUSEOX[®] software provides the powerful WinDaq[®] Waveform Browser. Waveform interpretation is easy with the built-in statistics & other functions such as a filtering and frequency analysis through WinDaq[®] FFT. Extended analysis functions allow waveform peak detection, integration, differentiation, arithmetic operations and more.

DATA QUALITY CONTROL:

THE MOUSEOX[®] tells the user when not to trust data due to kicks, hops or other significant movement from murine test subjects.

FOR EACH BEAT OR BREATH THAT IS CORRUPTED BY HEAVY MOVEMENT:

- ERROR MESSAGES DISPLAYED IN REAL-TIME
- ERROR CODES STORED IN DATA FILE RECORDING
- ERROR CODES OUTPUT BY ANALOG OUTPUT MODULE

WHAT'S THE BENEFIT?

RESEARCHERS DON'T HAVE TO GUESS WHICH DATA-POINTS ARE BAD & WHICH ARE GOOD!

Features

- ★ Quick & Easy
- ★ Non-invasive
- ★ No Calibration Needed
- ★ Diagnose and/or Monitor



CALL 1.866.978.2779 FOR A
FREE DEMO IN YOUR LAB

THE WORLD'S FIRST AND ONLY
PULSE OXIMETER FOR MICE AND RATS
Neonatal Through Adult Mice & Rats

MouseQ[®]

From STARR Life Sciences



MouseQ[®]



ALL MEASUREMENTS WITH A SINGLE
NON-INVASIVE SENSOR

Instantly Diagnose &
Monitor Real-time Changes in:

Arterial O2 Saturation

Pulse Rate

Pulse Distention

Breath Rate

Effort to Breathe

WWW.STARRLIFESCIENCES.COM

Applications

THE MOUSEOX[®] provides REAL-TIME, continuous **measurements** of Arterial O₂ Saturation, Pulse Rate, Breath Rate, Blood Flow and Effort to Breathe, all from a single, **non-invasive** sensor. Because this unique system was developed specifically for mice and rats, it provides **accurate** measurements for heart rates up to **900 BPM**.

SURGERY MONITOR

- ★ Prevent **Hypoxia** During Surgery
- ★ Titrate Mechanical Ventilation
- ★ Monitor Depth of Anesthesia
- ★ Titrate Supplemental Oxygen
- ★ Set Alarms
- ★ Monitor REAL-TIME Beat-by-Beat

Decrease scatter in experiment data by monitoring subjects during survival surgery to ensure they are not damaged.

CARDIOPULMONARY DATA RECORDER

- ★ Quickly Diagnose Vital Signs
- ★ Diagnose & Begin Monitoring **WITHIN~3 SECONDS**
- ★ Monitor REAL-TIME Changes in:
 - ARTERIAL O₂ SATURATION
 - PULSE RATE
 - BREATH RATE
 - BLOOD FLOW
 - EFFORT TO BREATHE
- ★ Analog Output of DATA
- ★ Record O₂ Sat. During **Hypoxemia**
- ★ Record Data to Various File Types
- ★ Mark Experiment Events

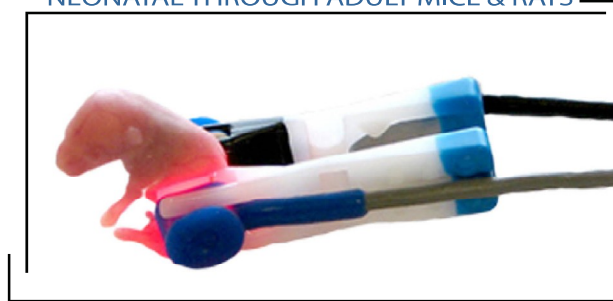
Non-invasively record beat-by-beat changes in cardiopulmonary health as a part of research.

MouseOx[®]

DESIGNED WITH TWO RESEARCH NEEDS IN MIND:

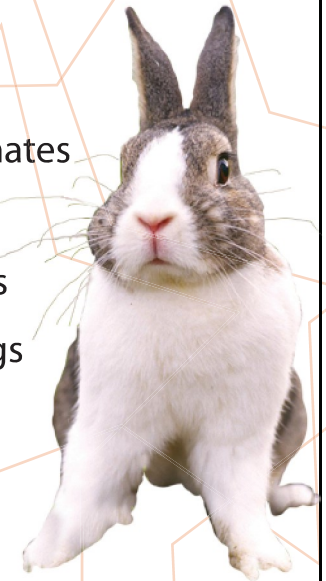
- 1) To **monitor subjects** during surgery or anesthesia to ensure they do not die or suffer cellular damage due to **HYPOXIA** (lack of oxygen).
- 2) To **record physiologic data** during studies of heart, lung, blood & vascular disease, injury or pharmaceuticals.

NEONATAL THROUGH ADULT MICE & RATS



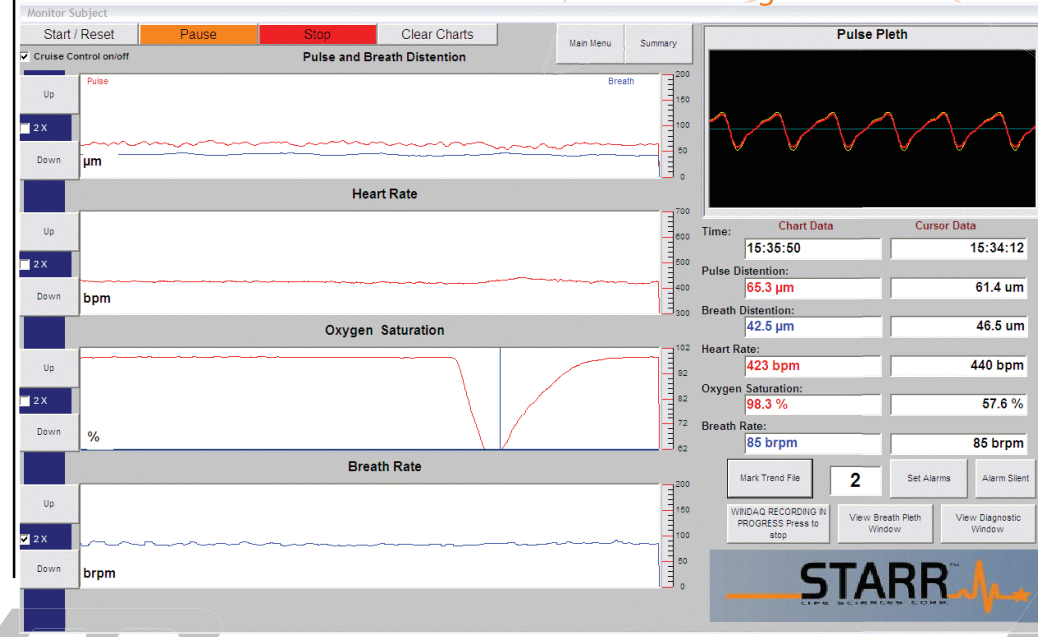
ALSO DIAGNOSE & MONITOR

- ★ Hamsters
- ★ Gerbils
- ★ Small Primates
- ★ Rabbits
- ★ Chinchillas
- ★ Guinea Pigs
- ★ Ferrets
- ★ Piglets
- ★ Birds



Data Capture & Analysis

The **MouseOx[®]** is being used throughout the world's top research laboratories to diagnose & monitor **neonatal through adult mice & rats.**



- ★ Easy to read beat-by-beat real-time display.
- ★ Advanced data viewing features.
- ★ Easily view recorded files with included software.
- ★ Easily export recorded files to MS Excel, Spike 2, MATLAB & others.
- ★ Analog output of data to ADInstruments, Spike 2, Grass Recorder, LabVIEW & others.

CALL 1.866.978.2779 FOR A FREE DEMO IN YOUR LAB