

## MOUSEOX PLUS® - RAT & MOUSE PULSE OXIMETER & PHYSIOLOGICAL MONITOR

The MouseOx Plus is the second generation of the original mouse pulse oximeter and physiological monitor. It is clinically validated and has been used and cited in a multitude of published studies, including Lung Injury and Influenza Models. The MouseOx Plus works on mice, rats and other small animals.

*Benefits of Mouse Pulse Oximetry with the MouseOx Plus:*

*Is Non-Invasive*

*Can be used with:*

- Anesthetized and conscious subjects
- Animal sizes from neonates' mice through adult rats
- Mice, rats, and other small laboratory animals with
- pulse rate from 90-900 BPM such as marmosets, rabbits, guinea pigs, hamsters, voles, tree shrews, ferrets, opossum, rabbits
- Is MRI compatible sensor available (see MouseOx Plus sensors)
- Can monitor up to 16 subjects with one MouseOx Plus (see Multiplexer)
- Provides analog output of pulse waveform
- The MouseOx Plus provides the following measurements:

**\*Arterial Oxygen Saturation**

**\*Heart Rate**

**\*Breath Rate**

**\*Temperature (optional)**

**\*Pulse Distention**

**\*Breath Distention**



### Selection of sensors



**CollarClip™ Sensor**

**Collar clips** to be used on conscious or anesthetised mice or rats (carotid arteries)



**ThroatClip™ Sensor**

**Throat clips** to be used on anesthetised mice or rat (carotid arteries)



**Rat Foot Sensor**

**Foot sensors** to be used on anesthetised rats or mice



**Mouse Thigh Sensor**

**Thigh sensors** to be used on anesthetised mice (femoral artery)



**MRI Compatible Sensor**

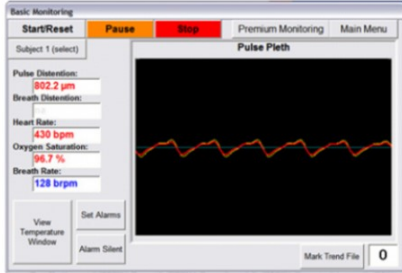
**MRI special sensors** for imaging application with dedicated cable length



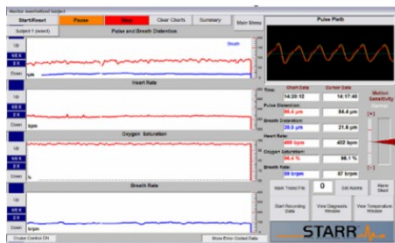
**Mouse Foot sensor**

## Software modules

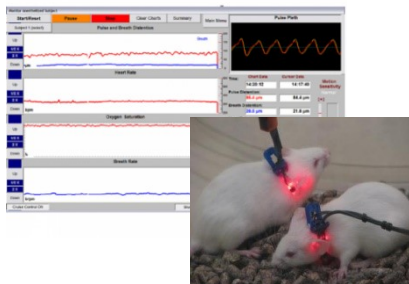
**Windows 10 os (uk language recommended)**



**Standard:** The Standard Software is included with all MouseOx Plus systems and is intended for basic monitoring applications and provides Heart Rate, Saturation (SpO2), Breath Rate, Breath Distention and Pulse Distention. Alarm can be set and displayed for each parameter. **Life time update. Open licence**

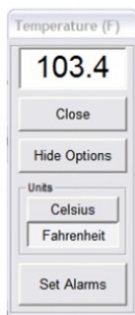


**Premium:** In addition to the MouseOx Plus's standard version the Premium Software includes trending charts, real time recording options, file markers for noting important events, and a quick averaging diagnostic feature for spot-checking. This software is intended to be used in research-based applications. **Life time update. Open licence (product key linked to hardware interface)**



**Conscious:** Applications Software includes enhanced filters and control algorithms to allow the MouseOx® Plus to monitor Heart Rate, Saturation (SpO2), Breath Rate, Breath Distention and Pulse Distention in conscious, unrestrained subjects, and provides a subject activity measurement. This software add-on requires the **Premium** Software with to operate and is intended for conscious monitoring applications and spot-checks of non-anesthetized subjects.

**Life time update. Open licence (product key linked to hardware interface)**



**Temperature Software Module** allows the researcher to monitor temperature of subjects using a rectal thermometer with the MouseOx Plus, and can be added to any of the MouseOx Software Modules.

**Life time update. Open licence (product key linked to hardware interface)**

dozens of combinations are possible. But not all works. A discovering discussion is strongly advised in order to select the right modules and the corresponding accessories.

[contact@aniphy.com](mailto:contact@aniphy.com) or +33768725998 ..more than 10 years experiencing Mouseox installations

## Hardware modules



The **Multiplexer 8** is a sensor Switching Unit for MouseOx Plus® Allows 1 MouseOx Plus® to monitor and record data from up to 8 subjects, using one MouseOx Plus® control unit. The Multiplexer allows you to choose between automatic or manual switching. The Summary Screen shows all subjects being monitored by the Multiplexer as well as all physiological parameters reported by the MouseOx Plus®



The **Multiplexer 16** allow you to monitor and record data from the MouseOx Plus® for up to 16 subjects. This sensor switching unit is a MouseOx Plus® accessory and provides you the ability to monitor and record data for up to 16 subjects, one at a time, with one MouseOx Plus® control unit. The Multiplexer allows you to choose between automatic or manual switching. The Summary Screen allows all the subjects being monitored by the Multiplexer as well as all physiological parameters reported by the MouseOx Plus.



The **Multiplexer 8 with Temperature** allows you monitor and record the data from the MouseOx Plus® including temperature when using the Temperature Software Module. The Multiplexer 8 with Temperature is a Sensor Switching Unit for the MouseOx Plus® that allows you to monitor and record up to 8 subjects, one at a time, using one MouseOx Plus® control unit. The Multiplexer provides you the ability to choose between automatic or manual switching. All subjects being monitored by the Multiplexer, as well as all physiological parameters reported by the MouseOx Plus, are displayed on the Summary Screen.



**Conscious Measurements Enclosures** for Mice and Rats Lower cost alternative to Long Term Conscience Measurement Enclosure, Swivel mount and lever arm, Low torque slip ring, Low stress environment helps to provide more accurate data, Lid, food and water dispenser available by request, Sizes available for both mice and rats, Multiple enclosures can be connected to the Multiplexer to monitor up to 16\* subjects (\*Available for use with MouseOx® Plus systems only)



The **STARR-Link** is an Analog Data Output Module for the MouseOx Plus that converts the calculated parameters to an analog voltage output. The output voltage range is from 0 to 5 volts.



DAQ like biopac powerlab Iworx

