

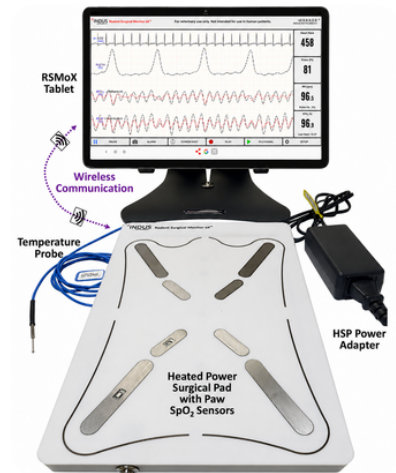
Rodent Surgical Monitor oX

Technical Specifications

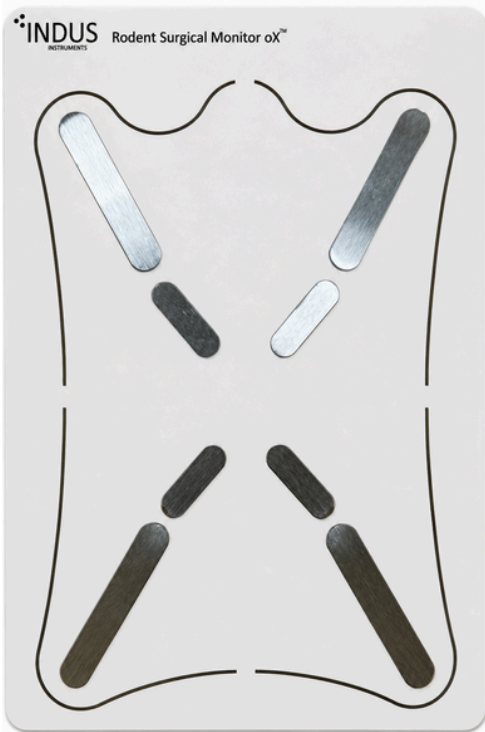
OVERVIEW

The Indus Instruments **Rodent Surgical Monitor oX** is an integrated surgical warming and vital signs monitoring solution for small animal research, offering core body temperature, ECG, respiration rate, heart rate, pressure, and paw pulse oximetry (SpO₂) measurement.

The unit consists of three components: heated surgical platform, temperature probe and 12.7" touchscreen display unit.



ABS Heated Surgical Platform



Platform Dimensions	11.49 x 7.44 x 0.27 inches (291.8x189.1x6.9 mm)
Platform Weight	1.37 pounds (0.62 kilograms)
Platform Covering	Acrylonitrile Butadiene Styrene Plastic
Heater Type	Responsive with Multiple Zone Control
Heater Uniformity	< 0.5°C Across Active Area
Heater Startup Time	< 2 minutes from room temperature
Heater Set Temperature	Adjustable, 25.0 - 43.5°C by 0.1°C
Power Supply	Universal Adapter(100-240 VAC)
Noninvasive ECG Electrodes	Two sets of limb contact electrodes; inner set for mouse, outer for rats or animals of similar size Optional: 1. External ECG Electrodes 2. External Pulse-ox Clip 3. Sensor Tip Pressure Catheter Fluid-filled Pressure Catheter
Paw Pulse Oximeter Sensor	Two paw pulse oximeter sensors built into two electrodes - one for mouse and one for rat

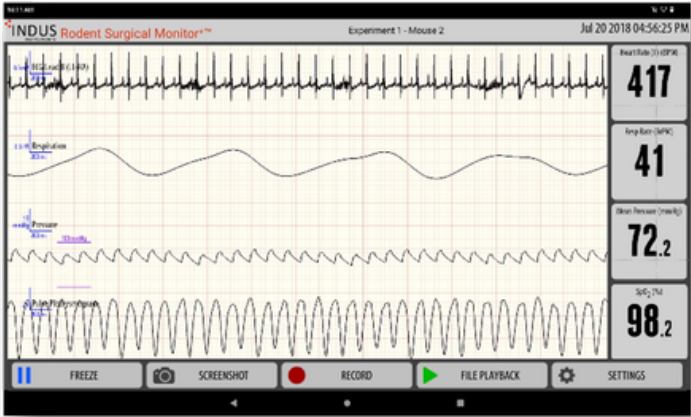
Temperature Probe

Each Rodent SurgicalMonitor+ is delivered with a single rectal temperature probe. Customers may indicate the size they prefer, which includes probes optimized for neonatal mice, adult mice, or adult rats.

The temperature probe sensor is a Copper-Constantan Thermocouple, located at the tip of the probe. Probe temperature resolution is +/-0.1°C.



Touchscreen Display Unit



Display Type	High Resolution Color Display with Capacitive Touch
Display Size	12.7 Inches
Display Resolution	3K (2944x1840) LTPS LCD, 144 Hz, HDR10, 400 nits
Memory	8GB RAM
Storage Capacity	128 GB of Data Storage
Power Supply	Universal Adapter (110 - 240 VAC)
Tablet Processor	MediaTek Dimensity 8300 octacore (3.35GHz) A78@2.6GHz, A55@2GHz
Operating System	Android 15.0
Webcam	Front: 8MP/Rear:13MP auto-focus
Audio	Quad JBL® speakers tuned with Dolby Atmos®
Battery	Lithium-ion Polymer 10200 mAh
Wi-Fi and Bluetooth®	Wi-Fi 6E, 802.11 a/b/g/n/ac/ax + Bluetooth 5.3
Connectors	USB-C 3.2 Gen 1; MicroSD Card Slot; 3-pt Pogo Pin connector

Physiological Measurements

Numeric Display Options	Range
Heart Rate (Lead I, II, III)	30 - 960 BPM
Respiration Rate	15 - 300 BrPM
Core Temperature	25 - 50°C
Pad Temperature	25.0 - 43.5°C
SpO2 Paw Sensor	80 - 100%
SpO2 Clip Sensor	80 - 100%
Pressure (sensor tip catheter or fluid-filled sensor option)	-50 - 300 mmHg

Waveform Display Options
ECG Lead I, II, III
ECG Lead aVL, aVR, aVF
Respiration
External Pulse Plethysmogram (Clip)
Pressure (sensor tipped or fluid-filled catheter)

