

SurgiSuite

Surgical Platform for Mice and Rats

User's Guide



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Technical Help: 860-626-1172

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Part 1: Welcome to SurgiSuite

The SurgiSuite Multi-functional Surgery Platform includes:

- (1) easy to clean, chemical resistant base
- (1) stainless steel plate (surrounding surgical area)
- (2) magnetic nose cone/intubation tubing stabilizers, 1-small and 1-large
- (4) magnetic limb positioners (used with elastic wire)
- (1) elastic wire positioner (1-meter)
- (1) detachable procedure bowl
- (3) surgical field covers

Systems with warming capabilities will also include:

- (1) far infrared warming pad controller with temperature sensor
- (1) far infrared warming pad

The SurgiSuite Multi-functional Surgery Platform has an easy-to-clean, chemical resistant base which includes a channel for collecting fluids discarded during surgical operations.

The surgical area is surrounded by a ferro-magnetic stainless steel plate, with the option to incorporate a window to allow for warming of the animal during surgical procedures.

Part 2: Getting Started

System Assembly

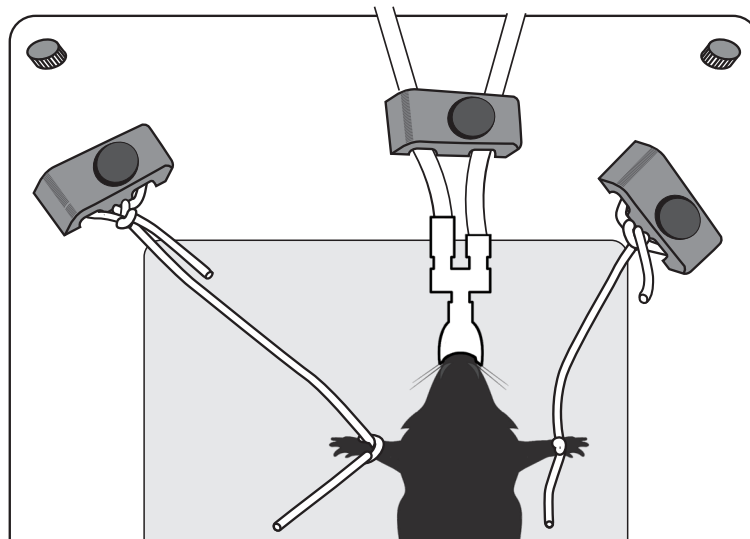
Procedure Bowl

The procedure bowl included with each platform can be used for quick access to gauze, cotton-tip applicators or to hold fluids. Each corner can accommodate multiple bowls. Attach the bowl to the surgery board by unscrewing one of the feet on the surgical board, then placing the mounting tab onto the screw and replacing the foot. The procedure bowl mounting tab should be positioned between the foot and the bottom of the surgery platform.

Magnetic Positioners

The magnetic positioners are multi-positional stabilizers that can be placed anywhere on the stainless steel surface and can be used to suit a wide variety of surgical setups. Use the magnetic positioners to hold down tubing or wires, or use a section of elastomer to stabilize limbs.

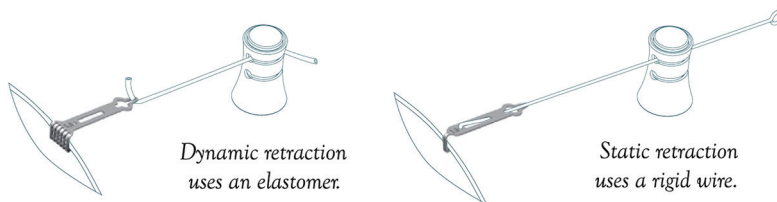
If using as a limb stabilizer, tie the elastomer in a loose slip knot. Loop one end under the center of the positioner and the slip knot around the animal's limb. Tighten just enough to hold the limb steady, taking care not to allow the elastomer to become too tight. Adjust the position of the magnetic stabilizer as needed to correct tension during the procedure.



Magnetic Fixators (Optional)

Optional retractor wires and tips provide maximum control with minimum clutter. Retractor wires lock into fixators to allow both linear and rotational adjustment over the entire length of the wire. Tips can be locked onto a wire for static retraction, or affixed to an elastic wire to form a dynamic retractor. Retractor wires engage and lock into the fixator jaws at the desired elevation. One end of the wire is formed in a loop to provide grip for a gloved hand and the other end is formed into a right angle hook that can retract on its own or lock to a range of retractor tips. The wires can also be reformed to create restraints or engage other lab apparatus that need to be secured in the surgical field.

The fixators can be placed securely along the magnetic plate as desired. To attach the retractors to the fixators, depress the top of the fixator to open the slots. Insert either the included latex elastomer or a wire retractor handle and attach a retractor tip, as shown below.



LED Lighting and Magnification (Optional)

An optional LED Lighting and Magnification Kit, includes 3 flexible LED lights, clip-on magnifier and a USB power strip. The USB strip slides securely onto any side of the SurgiSuite platform. Use the included adapter to power the USB strip, and attach up to 7 USB accessories into the outlets along the top of the strip. Each outlet has its own on/off switch to allow for a customized set up.

The clip-on magnifier offers 2x magnification and a 6x inset and can be clipped on any side of the surgery board.

Part 3: Animal Warming Add-On

Setting Up the Far Infrared Warming Controller

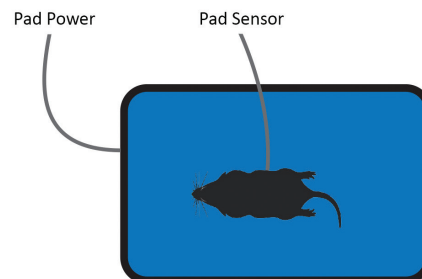
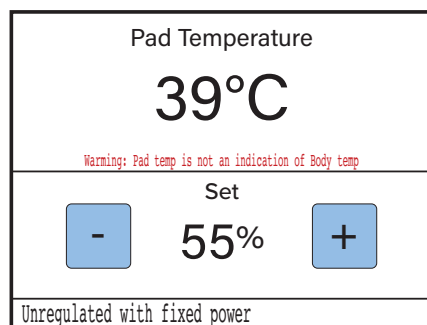
The Far Infrared Warming Pad Controller is designed to regulate percent power to the warming pad.

1. Connect the power supply to the back of the controller and flip the power switch to “On”.
2. Connect the far infrared warming pad to the “Pad Power” connection on the back of the controller.
3. Remove the surgical field cover and stainless steel plate from the SurgiSuite platform. Insert the pad sensor through the slot in the upper left corner of the platform. If using SurgiSuite Large, insert the sensor through the slot in the upper center of the platform. Secure the sensor to the center of the warming pad with tape. Reinstall the stainless steel plate and surgical field cover.



4. Adjust percent power to the pad using the plus and minus buttons.
5. Position the animal in the center of the pad directly over the pad sensor.

NOTE: The “Pad Temperature” is not an indication of “Animal” temperature. This system is designed to adjust pad warming and show pad temperature.



Part 4: Maintenance and Troubleshooting

SurgiSuite Cleaning Instructions

The recommended cleaning method depends upon whether or not you are using a sterile surgical drape during your animal procedures.

With Sterile Surgical Drape:

We recommend using the SurgiSuite with a sterile surgical drape. Drapes are considered disposable and you should use a new drape for each procedure. As a precaution, wipe the board and accessories with an approved cleaning agent between uses.

Without Sterile Surgical Drape:

If you do not use a surgical drape, clean the board and accessories fully between animal procedures and after each use.

To disassemble the board for easy cleaning:

Remove the USB strip with lights from the back of the board.

Remove all magnets, retractors, and accessories.

Remove the black screws from all four corners.

Remove the top overlay, metal plate, and warming pad.

Wipe all parts with an approved cleaning agent, and let dry before reassembling.

Recommended Cleaning and Disinfecting Agents

We suggest cleaning the SurgiSuite and accessories with one of these cleaning agents:

- 2% Glutaraldehyde (Cidex, Abcocide)
- 8% Formaldehyde / 70% alcohol
- 7% stabilized hydrogen peroxides (Accelerated Hydrogen Peroxide, Virox STF, Sporox).
- 7.35% hydrogen peroxide / 0.23% peracetic acid (EndoSpore plus)
- 1:5 Chlorine dioxide solution (Clidox)
- 1.37% Sodium hypochlorite (Alcide)

For a more complete list of cleaning agents, please see www.KentScientific.com. Always follow manufacturer's recommendations.

Important: Do not autoclave the SurgiSuite or accessories.

Far Infrared Controller Cleaning Instructions

- Use a surgical field cover to prevent soiling the warming pad.
- Wipe the controller and warming pad with a damp cloth if needed. Never saturate the warming pad.
- Clean the sensor with germicidal or antiseptic soap and water. Do not use organic solvents or alcohol.

Far Infrared Controller Troubleshooting

Problem	Possible Cause	Solutions
Pad is not heating to desired temperature	Incorrect settings	Ensure that percent power is properly set.
	Incorrect sensor placement	Place pad sensor directly beneath the animal.
Pad is overheating	Incorrect settings	Ensure that percent power is properly set.
	Incorrect sensor placement	Place pad sensor directly beneath the animal.
No Sensor Error, or Sensor is reading incorrect temperature	Incorrect sensor placement	Ensure warming pad and sensor are fully inserted into the back of the controller.
	Pad sensor not working	Contact Kent Scientific for assistance.

Part 5: Specifications

Surgical Platform Dimensions

SurgiSuite	Platform 33.02cm (13in) x 43.18cm (17in) Surgery Area 30.38cm (12in) x 20.32cm (8in) Warming Area 13.3cm (5.25in) x 10.16cm (4in)
SurgiSuite Large	Platform 40.64cm (16in) x 45.72cm (18in) Surgery Area 33.02cm (13in) x 27.94cm (11in) Warming Area 22.2cm (8.75in) x 17.15cm (6.75in)

FIR Warming Controller

Voltage	12 V, 2.5 A
Dimensions	15.24cm (6in) x 12.065cm (4.75in) x 4.445cm (1.75in)
Weight	.23kg

Power Supply

Input	100 to 240 V, 50 to 60 Hz, 1.0 A
Output	12 V, 2.5 A

Pad Sensor

Resistance:	2,252 ohms
Tolerance:	+/-0.2°C
Accuracy:	25°C to 45°C
Operating Temperature:	-40°C to 80°C
Sensor Diameter:	Ball Tip Diameter: 1.65 mm max Shaft: 1.5 mm
Time Constant:	10.0 seconds

Part 6: General Information

Thank you for purchasing the SurgiSuite. We truly appreciate your business. We strongly advise that you read and study this Owner's Manual to appreciate fully all the features, benefits, and capabilities of the SurgiSuite.

Contact Information

Kent Scientific Corporation
1116 Litchfield Street
Torrington, Connecticut 06790
E-mail: sales@kentscientific.com

Toll-Free: 888-5RATTUS (888-572-8887)
Outside US: 860-626-1172
Fax: 860-626-1179
Internet: www.kentscientific.com

Disclaimer

Kent Scientific Corporation makes no representations or warranties, expressed, statutory or implied, regarding the fitness or merchantability of the components of this system for any particular purpose. Further, Kent Scientific Corporation is not liable for any damages, including but not limited to, lost profits, lost savings, or other incidental or consequential damages arising from ownership or use of these products, or for any delay in the performance of its obligations under the warranty due to causes beyond its control. In no case shall Kent Scientific Corporation's financial obligation extend beyond the cost of or replacement of the Kent product in question. Kent Scientific Corporation also reserves the right to make any improvements or modifications to these products described in this manual at any time, without notice of these changes. All brand and product names used in this manual are the trademarks of their respective owners. **This product is not designed, intended, or authorized for use in human applications.**

Product Warranty

The SurgiSuite has a one (1) year warranty including all parts and labor charges. This warranty does not cover damage by any cause including, but not limited to, any malfunction, defect or failure caused by or resulting from unauthorized service or parts, improper maintenance, operation contrary to furnished instructions, shipping or transit accidents, modifications or repair by the user, harsh environments, misuse, neglect, abuse, accident, incorrect line voltage, fire, flood, other natural disasters, or normal wear and tear. Changes or modifications not approved by Kent Scientific Corporation could void the warranty. The foregoing is in lieu of all other expressed warranties. Kent Scientific Corporation does not assume or authorize any party to assume for it any other obligation or liability.

Satisfaction Guarantee

Should you experience difficulty with the SurgiSuite, our Technical Support Group will assist you in trouble-shooting and determining if the product needs to be returned to our facility. We will issue you a Return Manufacturer Authorization (RMA) number before the product is shipped back for repair. It is at the discretion of the manufacturer to replace or repair a defective part or product. Please call Customer Service at 888-572-8887 to obtain a Return Manufacturer Authorization number. Shipments without a RMA number will not be accepted. Please note that after our 30-day return policy period ends, we will be happy to assist you with your application, but cannot issue any credit or refund for a returned SurgiSuite.

Prior to shipment, please clean and decontaminate the product of any chemical, biological, or isotopic contamination. Please include a completed Product Return Form with the shipment. The form can be found on page 7 of this Owner's Manual. For additional copies, call Kent Scientific Customer Service at 888-572-8887.

⇒ Product Return Form - Complete Steps 1 through 4



Kent Scientific
CORPORATION

860.626.1172 / toll-free: 888.572.8887 / fax: 860.626.1179
1116 Litchfield Street, Torrington, CT 06790 / www.kentscientific.com

1

Product Name: _____ Serial #: _____ RMA#: _____
Product Name: _____ Serial #: _____ (in subject line of email)
Product Name: _____ Serial #: _____

2

Prior to returning equipment that may be contaminated with biohazardous materials, potentially biohazardous materials, or radioactivity; the user must first decontaminate the equipment being returned. The decontamination procedure will include the following, as appropriate:

RETURNS WILL NOT BE ACCEPTED WITHOUT THIS INFORMATION

Place an "X" next to the appropriate box

This equipment has not been used in an area which would result in any biohazard or radioactive exposure.

This equipment was appropriately decontaminated* from any biohazardous materials with: _____



*Example: Autoclave, 10% bleach, Ethylene Oxide, formalin, etc. (Please note that it is the user's responsibility to confirm that the method of decontamination used is appropriate). Instruments must be decontaminated externally and internally, if needed.

This equipment was appropriately decontaminated and tested for radioactivity by: _____

*Example: Wipe test with results (³H, ¹⁴C, α-emitters), Geiger counts, etc.

3

If you are expecting a return or replacement shipped to you, please indicate the shipping address:

Institution: _____

Department: _____

Address Line 1: _____

Address Line 2: _____

City: _____ State: _____ Zip: _____

Country: _____ Telephone: _____

4

Name: (print) _____ Telephone: _____

Signature: _____ Date: _____

Return Product To: Kent Scientific Corporation
1116 Litchfield Street
Torrington, CT 06790 USA
Attn: Returns/RMA #

Returns using a Kent Scientific account should be sent "standard ground" service only. Written permission is required to use any service other than standard ground. Unless prior written authorization is obtained, the sender will be responsible for additional costs associated with the shipment if it is not sent by standard ground.

BEFORE SHIPPING THE PRODUCT: Fax or Email the completed form to 860-626-1179, sales@kentscientific.com



1116 Litchfield Street
Torrington, Connecticut 06790
Local: 860-626-1172 Toll-Free: 888-572-8887
Part No. 10-1000-190