



# SurgiSuite™ User's Guide

The SurgiSuite Multi-functional Surgery Platform includes:

- (1) easy to clean, chemical resistant base
- (1) stainless steel surgical surface
- (1) integrated, rechargeable far infrared warming pad
- (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
- (5) replacement surgical field covers

*\*Some accessories may differ from photo shown. Please contact Kent Scientific for current availability of accessories.*

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, incorporating a window to allow for warming of the animal during a surgical procedure. The battery operation provides added mobility to the surgical platform. The surgical field and warming pad are protected by a plastic cover.

The approximate surface areas for each platform are:

SMALL: 13" x 17", the surgery area is 12" x 8" and the warming area is 5 1/4" x 4"

LARGE: 16" x 18", the surgery area is 13" x 11" and the warming area is 8 3/4" x 6 3/4"

## Animal Warming

All platforms include integrated warming by using a rechargeable, battery-operated far infrared warming pad recessed in the center of the surgery platform. The warming pad sits below the surface to allow for a level surgical field. The warming pad is compatible with the PhysioSuite with Right temp for temperature monitoring and homeothermic control capabilities. Warming is easily controlled by selecting from 5 settings.

Warming Level	Approximate Temperature	Operating Time
Level 1	20°C (68°F)	7 hours
Level 2	25°C (77°F)	6 hours
Level 3	30°C (86°F)	5 hours
Level 4	35°C (95°F)	4 hours
Level 5	40°C (104°F)	3 hours



### **Battery Operation**

1. Fully charge the battery by plugging the wall adaptor into the battery pack and then into a standard wall outlet.
2. The LED display will initially show a number. This number is a numeric indication of the power remaining in the battery pack. The minimum value is one (no charge left) and the maximum value is nine (fully charged). This number does not reflect time remaining for the battery pack, it only provides a relative indication of power remaining. A small blinking red light in the right lower corner next to the number indicates the user may change the value shown, either by charging the battery pack or by changing the desired temperature setting. The battery is fully charged when the LED display reads nine (9).
3. Disconnect the battery pack from the wall adaptor.
4. Using the cord coming from the bottom of the surgery platform, plug in the battery pack.
5. Turn the warming pad on by pressing the ON/UP button and holding it for one second, a number will be displayed which indicates the amount of heat desired.
6. The number ranges from one (low-level warming) to five (high-level warming) and is a numeric indication of your warming setting. You can change this number by pressing the ON/UP and OFF/DOWN buttons on the battery pack. If you do not make a selection within 7 seconds after turning the unit on, the display will automatically show the battery charge value, which is the default display of the unit. The warming setting value will be assigned the last number displayed prior to showing the battery charge. The default warming setting when the device is powered on is one (1).

*Note: Because far infrared (FIR) light warms the animal without warming the air between source and the animal, touching the pad with your hand to determine the heat generated from the pad is not a good indication of your temperature setting. Always use a more definitive means to determine the animal's body temperature (i.e. an infrared or rectal thermometer).*

7. Position the animal in the center of the blanket.
8. When you are done, power off the battery pack by pressing the OFF/DOWN button and holding it for one second.

### **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 Fixators**

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 2.25x visibility and a 4x inset and can be clipped on any side of the surgery board.



## **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](http://www.KentScientific.com). Always follow manufacturer's recommendations.

**Important:** Do not autoclave the SurgiSuite or accessories.