

BiPAD[®] Disposable Bipolar Forceps Cord with Integrated Hand Switch

Why "switch" to **BiPAD[®]**

1. Faster than foot pedal.
2. Reduces blood loss.
3. Saves O.R. cost.
4. Seamless conversion.

Custom cord for electrocautery and switching functions designed to be highly pliable.

Note that the activation arm slides in & out of the "actuator assembly".

Mitt of the activation arm

Moving the actuator tip towards the forceps activates the generator.

Actuator Assembly

Forceps tips

BiPolar forceps: use your own favorite two-prong forceps.

Forceps plug

Main housing

Simply use our cord to replace yours

Use *your forceps*.
Use *your generator*.

FAQ

Frequently Asked Questions



small change
BIG IMPACT
Make the "switch" NOW.™

ELECTROCAUTERY BASICS

What is electrocautery?

- Electrocautery is the process of passing an electrical current through body tissues during surgery in order to control hemorrhage.
- Electrocautery is essential for all types of surgery.
- Electrocautery is the most commonly used surgical technique for controlling hemorrhage during surgery.
- Thermal injuries that lead to morbidity and mortality can occur.

Why is bipolar electrocautery important?

Bipolar electrocautery is vitally important in all open surgeries (i.e., non-endoscopic surgeries) [1] because it provides a means of controlling hemorrhage without damaging surrounding tissues.

What type of surgery requires forceps electrocautery?

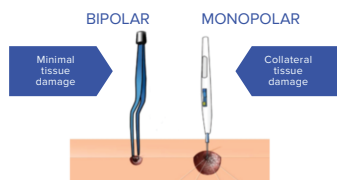
Surgeries that utilize bipolar forceps electrocautery: Almost all open surgeries require bipolar electrocautery. These are surgeries in which an incision is made to provide exposure. Most surgeries are open.

Surgeries that do not utilize bipolar forceps electrocautery: Laparoscopic and endoscopic procedures may not use bipolar forceps electrocautery.

What are the current challenges of bipolar electrocautery?

Current systems rely on a foot pedal for the activation of the generator. This presents a number of challenges that may create safety issues:

- Finding the foot pedal can delay activation, which may lead to blood loss.
- Misplacement of foot pedal often requires operating room staff to crawl on the floor under the operating table to relocate the foot pedal. The area under the operating table is unsterile and dirty and exposes staff to pathogens. This also delays activation and distracts the surgeon.
- Surgeons may activate the wrong foot pedal in search of the bipolar electrocautery foot pedal.
- Prolonged surgeries and foot pedal distractions contribute to physician fatigue.



Bipolar forceps electrocautery is generally accepted as the *most accurate form of electrocautery*.

BiPAD[®] HAND ACTIVATED DISPOSABLE CORD

What is the BiPAD[®] Hand Activated Disposable Cord?

BiPAD[®] (BiPolar Activation Device) is a medical device consisting of a sterile cord that connects your bipolar forceps to the existing electrocautery generator while providing a hand switch that can replace or supplement the foot pedal.

BiPAD[®] provides surgeons with the first and only practical hand-activated switch for bipolar electrocautery, thereby liberating them from the foot pedal.

Do I need a special electrocautery generator to use the BiPAD[®]?

No. BiPAD[®] works with most existing generators that employ the Valleylab composite bipolar plug, including Ethicon and Bovie bipolar generators. It also works with most Codman Malis generators. You will need to use a BiPAD[®] "Y" connector for use with Codman/Malis bipolar electrosurgery units.

Contact us at support@bipadsurgical.com to determine if your generators are compatible.

Do I need a special forceps?

No. The Hand Activated Disposable Bipolar Electrocautery Cord is an electrosurgical accessory designed to be universal when used with standard "two-pronged" bipolar non-irrigating two-prong connect forceps.

Can I still use the foot pedal?

Yes. BiPAD[®] is designed to accommodate surgeon preference and can be used with or without the foot pedal. However, we expect the foot pedal will go the way of the monopolar foot pedal and be eliminated.

Is the BiPAD[®] Hand Switch adjustable for the size of the hand?

Yes. A larger hand usually requires a longer actuator arm. The length of the BiPAD actuator arm can be adjusted by pushing/pulling the arm through the actuator housing. Adjust the length of the arm until it is comfortable. Most surgeons adjust the length of the arm so that the tip of the actuator arm (the mitt) touches the crease between the last two phalanges (ie, the distal and the intermediate phalanges) of the second finger. Note that the best way to adjust the length of the forceps is to hold the main housing and the actuator assembly with one hand, applying enough pressure to keep the actuator arm from sliding off of the main housing. Hold the actuator arm with your other hand and slide inward (shortening) or outward (lengthening) as necessary.

Is the BiPAD[®] Hand Switch adjustable for the size/style of forceps?

Yes. The length and the style, straight or bayonet, of the forceps can vary. This can require a longer or shorter actuator arm for comfort. The length of the actuator arm can be adjusted by pushing/pulling the arm through the actuator housing. Hold the forceps in the usual way, then adjust the length of the arm until it is comfortable. Most surgeons adjust the length of the arm so that the tip of the actuator arm (the mitt) touches the crease between the last two phalanges of the second finger. Note that the best way to adjust the length of the forceps is to hold the main housing and the actuator assembly with one hand, applying enough pressure to keep the actuator arm from sliding off of the main housing. Hold the actuator arm with your other hand and slide inward (shortening) or outward (lengthening) as necessary.

Is the BiPAD[®] Hand Switch adjustable to accommodate a range of surgeon preferences?

Yes. The ergonomically-designed actuator arm can be fitted to the inner curve of the surgeon's finger or fingertip or third digit tip, allowing the surgeon to hold the forceps in their usual, preferred manner.

Does the BiPAD[®] Hand Switch accommodate left or right-handed surgeons?

Yes. The forceps can be attached either direction to accommodate either right or left-handed use.

What are the indications for the use of BiPAD[®] Hand Switch?

The Hand Activated Bipolar Electrocautery Cord should be used by surgeons only. Any use of this device for tasks other than for which it is indicated may result in damage or injury.

Will BiPAD[®] produce an irrigating version?

Yes.

How easy is conversion to BiPAD[®] Hand Switch?

Converting is as simple as replacing your existing disposable cord with BiPAD[®] the cord.

COMPETITIVE ANALYSIS

The ConMed device incorporates a proximity switch that activates electrocautery current whenever the tines of the forceps are approximated. There are several problems with this type of forceps:

- This interferes with the normal use of bipolar forceps, which are also used to pick up and move objects to and from the surgical site and dissection. Inadvertent activation could be dangerous.
- The ConMed design incorporates the switch into the forceps requiring the surgeon to use only the forceps provided by ConMed. Surgeons often have their favorite forceps with which they are comfortable and proficient.
- The ConMed system is compatible with only a handful of electrosurgery generators.
- The ConMed system requires the use of a special cable which must be purchased separately.

The Valleylab[®] generators incorporate an impedance testing circuit that can automatically activate bipolar forceps when the impedance is below a predefined value. Problems with this are similar to the ConMed device described above.