



FURIX

FEP-200 Vet

**VETERINARY VESSEL-SEALING
ULTRASONIC-ELECTROSURGICAL
UNIT**

Product introduction

Intelligent Electrosurgical Generator with Vessel Sealing System is a high-performance medical device, which is specially designed for the modern animal operating room. By integrating a variety of advanced cutting and coagulation technologies, it combines two major functions of high-frequency electrosurgical equipment and vessel sealing system into one, and realizes the intelligent output of electrocision and vessel sealing system by advanced tissue self-adaptive technology, eliminating the need to manually set the parameters before the operation and providing the surgeon with a precise, safe, efficient, and convenient surgical experience.

Whether it is routine tissue processing or high-precision minimally invasive surgery, this generator meets the complex needs of different surgical styles and is an indispensable right-hand man for the vet in laparoscopic and developmental surgery.



Curved Large Jaw Sealer
Cutting Surgical Instrument



Bipolar Forceps



Electrosurgical Pencil



Foot Pedal



Intelligent Electrocision

No need for doctors to set parameters manually, one button to realize the intelligent operation

Intelligent identification of tissue state and power adjustment 100 times per second, real-time dynamic adjustment of electrocutting output power, to ensure that the minimum thermal damage to achieve the optimal cutting effect, without the need for doctors to manually adjust the power, convenient, quick, simple and efficient.

4 Kinds of Electrocision Function

Pure Cut Mode

Quick total excision and fine excision of the focus, with a relative weak coagulation effect.

Blend 1 Mode

Fast-speed excision and coagulation of the focus of minor hemorrhage (70% duty cycle output cutting waveform).

Blend 2 Mode

Medium-speed excision and coagulation of the focus of moderate hemorrhage (50% duty cycle output cutting waveform).

Blend 3 Mode

Low-speed excision and coagulation of the focus of large hemorrhage (30% duty cycle output cutting waveform).

3 Kinds of Electrocoagulation Function

Soft Coagulation

Heat the tissue at a slower rate and increase the depth of thermal penetration, which is suitable for deep and high stability required tissue coagulation.

Typically use the spherical electrodes for coagulation.

Spot Coagulation

The electrode generates a spark that passes through the air to coagulate the tissue, achieving a small, precise coagulation of the targeted tissue.

Surface Coagulation

The spark of electrode has a wider sputtering range, slower penetration speed and can coagulate a larger area of tissue.



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Product introduction

Standard Mode: Can be used with most bipolar instruments including tools such as bipolar scissors and bipolar forceps, allowing for less thermal damage than monopolar instruments for cutting or coagulation.

Macro Mode: Compared to the Standard Bipolar Mode, the Macro Mode achieves more stable and precise output power control through intelligent algorithms for precise cutting or coagulation.

Intelligent Vessel Sealing System Mode

- **Suitable for the closure of veins, lymphatic vessels, and tissues with a diameter of up to 7 mm.**

It automatically provides dynamic and accurate energy output and electrode pressure for the vessel sealing system by means of intelligent algorithms, which produces complete and permanent coagulation of the tissue in a preset period of time, completing the fusion of the tissue with the vessel lumen.

- **Reduce the Vessel Closure Time by 50%**

Based on precise algorithms to manage energy delivery, the Intelligent Electrosurgical Generator reduces the vessel closure time by 50% when used in conjunction with the vessel sealing system, and reduces adhesion, eschar or thermal diffusion to the surrounding tissues.

- **Tissue Feedback Technology for Vessel Sealing**

With 450,000 times impedance detection per second, it accurately recognizes the state of vessel sealing and improves the safety of the operation without the need for the doctor to judge whether the vessel sealing is completed or not.

Negative Plate Monitoring System

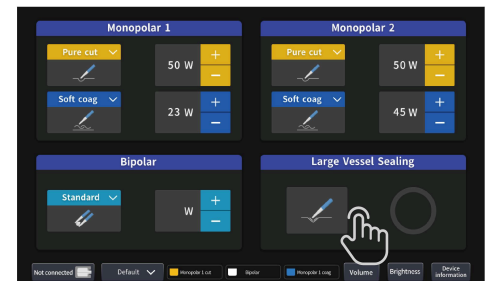
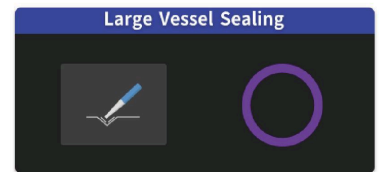
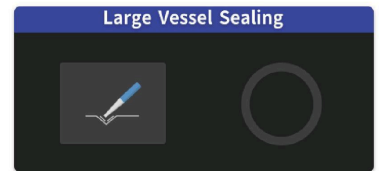
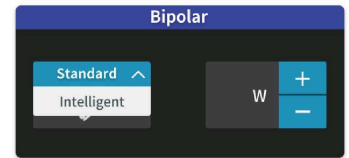
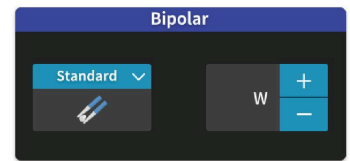
- **Real-time Detection to Reduce Surgical Risk**

It has an advanced built-in monitoring system to ensure the safety contact of the negative plate in real time. It will automatically stop working if it encounters accidental situations such as the falling off of negative plate, poor contact, etc., which reduces the risk of accidental burns of animals during the surgery.

Interactive Touchscreen

- **High-resolution interactive touchscreen with simple and intuitive interface, and convenient operation**

Quick setup and real-time monitoring to enhance surgical efficiency and help doctors to manage surgical modes and energy output.



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Technical Advantage



01 Intelligent Energy Management System

The intelligent algorithm and tissue self-adaptive algorithm independently developed by the R&D team can automatically adjust the output energy of the electrocoagulation and vessel sealing system according to the feature of the tissue without the need for the doctor to manually set the parameters, which improves the precision of the surgery, and reduces the doctor's workload, the risk of surgery, and the intraoperative tissue damage and post-operative complications.

02 Efficient Bipolar Mode

The bipolar interface supports Standard Mode and Macro Mode, which can flexibly respond to different surgical needs.

1. The Standard Mode is suitable for most bipolar instruments and provides a stable energy output.
2. The Macro Mode enables fast cutting and coagulation with automatically adjustable voltage and power, shortening the procedure time and increasing the surgical efficiency.

03 Multifunctional Integrated and Extensible

Support access to a wide range of surgical instruments, providing a long-lasting return on investment for hospitals and operating rooms. The Intelligent Electrosurgical Generator with Vessel Sealing System will continue to expand with more electrosurgical features such as ultrasonic scalpel, Rebirth Knife, piezosurgery device, and provide more upgrades and additional services.

Optimized Vessel Sealing System Interface

04 Safe Negative Plate Monitoring System

The generator is equipped with a negative plate monitoring system, which monitors the quality of contact between the negative plate and the patient in real time, avoiding current concentration problems caused by poor contact, thus reducing the risk of tissue burns at the negative plate during the surgery and guaranteeing the safety of surgery.

05 Optimized Vessel Sealing System Interface

The generator is perfectly compatible with the vessel sealing system. Based on the intelligent algorithm, it manages to provide precise energy output and the pressure control, which realizes a quick and permanent fusion of tissue, reduces the vessel closure time and damage of surrounding tissues, making pet's postoperative recovery faster and less painful.

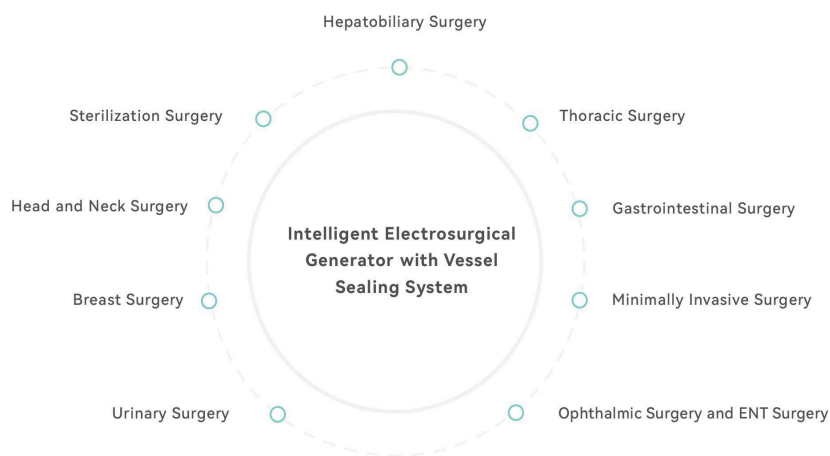
06 The generator comes with a Type-C port.

Letting our independent R & D team continues to upgrade and iterate, lifetime free to enjoy the system optimization and remote upgrade, to protect the product technology and functionality of the advanced.

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Clinical Application of Product

Instruments Parameters

Applicable Surgical Field

Intelligent Electrosurgical Generator with Vessel Sealing System can be widely used in open or minimally invasive surgery in the following areas:

Electric Shock Protection Grade	CF-Type Components
Types of Electric Shock Protection	Class I Equipment
Main Power Input	Voltage:220V Frequency:50Hz Power:500VA
Operating Conditions	Temperature:10°C to 30°C Humidity: 30~70%, no condensation. Atmospheric Pressure Range: 70KPa-106KPa
Transportation and Storage Conditions	The products should be prevented from heavy pressure, collision, direct sunlight and snow and rain, and should be stored in a dry, clean, non-corrosive gas and well ventilated room. Temperature:-20°C to +55°C Humidity: 10~93%, no condensation. Atmospheric Pressure Range: 70KPa-106KPa



Mode			Max Output Power (W)	Modulation Frequency (kHz)
Monopolar Mode	Electrocision	Pure Cut	200	450
		Blend 1	150	450
		Blend 2	150	450
		Blend 3	150	450
	Electrocoagulation	Soft	200	450
		Spot	120	450
		Surface	120	450
Bipolar Mode		Standard	100	450
		Macro	50	450

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