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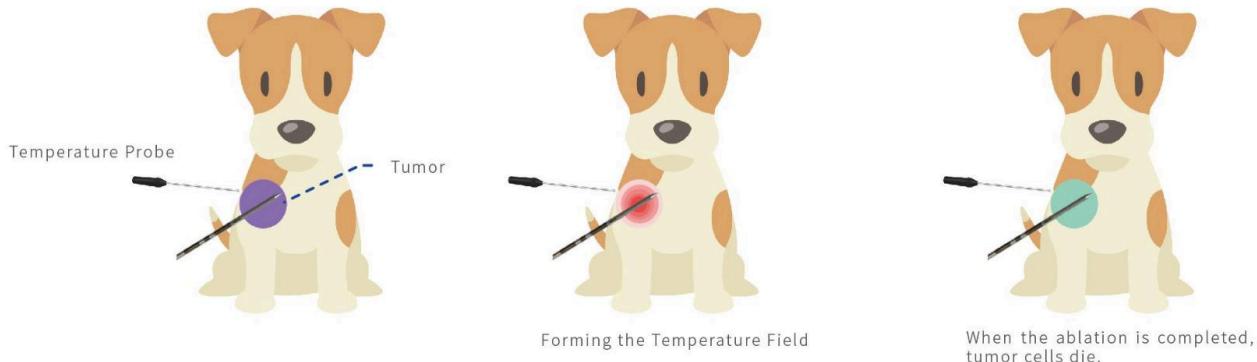
FRAF-100 VET

VETERINARY RADIOFREQUENCY
TUMOR ABLATION SYSTEM

World First Bivariate Feedback Control Algorithm

What's radiofrequency tumor ablation ?

When radio frequency current flows through animal tissues, the rapid changes in electromagnetic field cause water molecules with polarity inside the tissue to move at high speed and generate heat to form a temperature field, which results in evaporation, drying, shrinkage and detachment of the water from the tumor cell and the aseptic necrosis of it, leading to the formation of tumor coagulation necrosis and achieving the goal of treatment.



Two Core Technologies

01 Bi-variate Feedback

Radio frequency ablation needles and temperature probes can collect tumor impedance and temperature in real time and provide dynamic feedback on the state of the tumor tissue, which can achieve precise control of the temperature at the boundary of tumor ablation and prevent excessive ablations on healthy tissues around the tumor and the formation of eschars inside the tumor, so as to reach the goal of precise ablation.

02 Intelligent Control Algorithms

The feedback control algorithm can intelligently recognize and judge the collected real-time impedance and temperature. Through this intelligent ablation mode, we can realize the fully automatic adjustment of ablation power and ablation time during the whole process, without the need for doctors to manually set the ablation parameters before the operation.



Before radiofrequency tumor ablation



After radiofrequency tumor ablation



14 Days after the ablation

Shenzhen Falcon and Furix Lifesciences Co. Ltd
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Technical Advantages

Precise Ablation with Controlled Boundaries

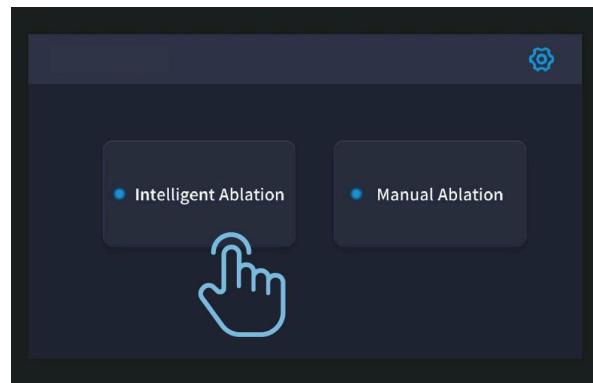
Adopting dual monitoring technology of impedance and boundary temperature to provide feedback on the status of ablated tumor tissue in real time, which precisely controls the ablation boundaries, preventing excessive ablation, protecting nearby organs and healthy tissue and greatly reducing pain in postoperative recovery.

Fast, Efficient, and Time-saving

In intelligent ablation mode, the duration of the ablation is no more than 10 minutes, significantly improving the efficiency of the operation and the pets can be discharged from the hospital and quickly return to normal life.

Operating in Dual Mode Simply and Flexibly

The generator has two built-in modes of intelligent ablation mode and manual ablation mode. In the intelligent mode, with a built-in intelligent feedback control algorithm, there is no need for doctors to manually set the complex output energy and the time for ablation, and the whole process of ablation is automatically adjusted and controlled by the intelligent algorithm: The manual mode meets the doctor's personalized operation needs, and the operation is more flexible and convenient.



Functionality

Intelligent Recognition and Parameter Monitoring

After the ablation needle is connected to the generator, the generator will automatically recognize the model of the ablation needle and dynamically adjust the ablation parameters through intelligent control algorithm.

Parameters like temperature, power and impedance are updated in real time during the process of ablation, offering a direct and visual indication of the ablation process. When the ablation is completed, the generator stops automatically, which reduces the doctor's workload, makes the ablation more efficient and reduces reliance on doctor's experience.



Safe, Reliable and Worry-free

High-performance microprocessor intelligently recognizes the fit of neutral electrode, effectively solving the neutral electrode heating problem. Meanwhile, the output power is precise and stable, which avoids the occurrence of medical accidents and guarantees the safety of the operation.



Economical, Practical and Cost-effective

Only one single investment is needed to carry out the operation, and the generator can be used for a long time. As reusable consumables, radio frequency ablation needles have a short cost recovery cycle.



Easy to Operate and User-friendly

The doctor only needs to select the corresponding size of ablation needle according to the size of the tumor before the operation, and the ablation treatment can be carried out with just one press, which is extremely simple to operate.

The radio frequency ablation needle adopts three-edged needle design for better penetrability, effectively avoiding injury to other tissues.

The instrument is equipped with a large touch-screen and strong human-computer interaction. It is easy to operate, simple to learn and can help you quickly master the skills of using it.



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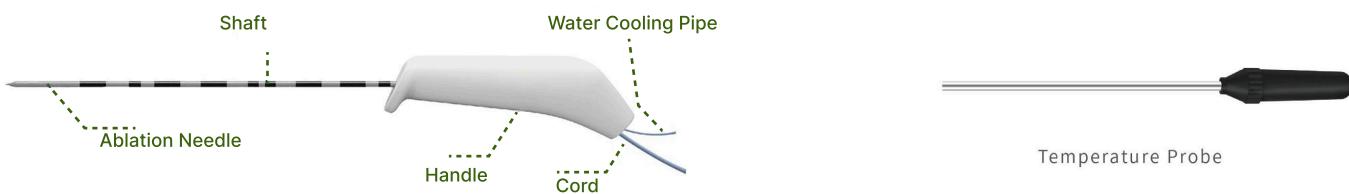
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Instrument Parameters

Types of electric shock protection	Class I equipment
Protection against harmful liquid	FRAF-100 Generator:IPX1
Main power input	Voltage:220V Frequency: 50Hz Power:300VA
Output	Voltage:25V (Peak) Frequency: 450kHz Power:100VA (Peak)
Range of Ablation	One Single needle's length is not more than 4cm
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
Weight	9 Kg
Product Dimensions	320mm x 360mm x 170mm

Equipment	Components	Specification	Quantity
Radio Frequency Tumor System	Generator	FRAF-100	1
		RSNE-10-2	1
	Ablation Needle	RSNE-10-3	1
		RSNE-10-4	1



The Veterinary Radiofrequency Tumor Ablation System is an advanced instrument specially designed for treating animal tumors. Compare to the traditional tumor surgeries, it is ultra-minimally invasive, precise, painless and has shorter cycles and fewer side effects, providing efficient, safe and precise tumor treatment solutions for pet hospitals. It can enhance the reception rate and treatment effect of pet hospital tumor treatment.

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