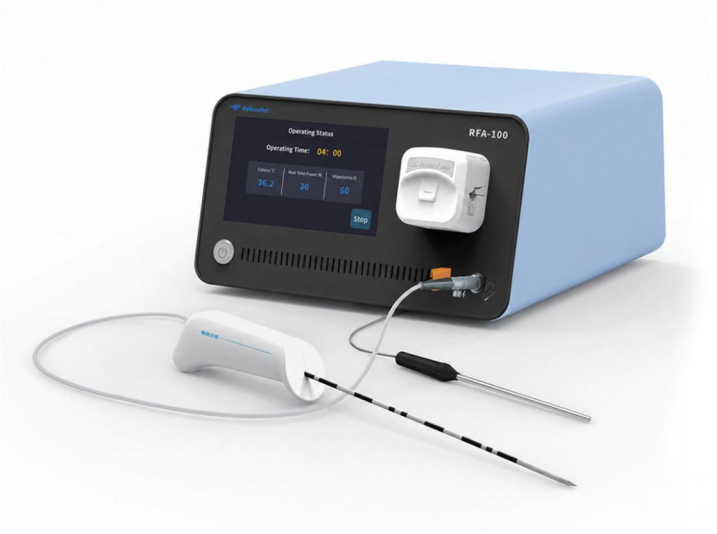
RFA-100

Veterinary Radiofrequency Tumor Ablation System

RFA-100 is a veterinary radiofrequency tumor ablation system equipped with a proprietary dual-variable feedback control algorithm. By integrating radiofrequency energy, bioimpedance monitoring and temperature feedback, it supports precise, minimally invasive tumor ablation for companion animals such as dogs and cats.



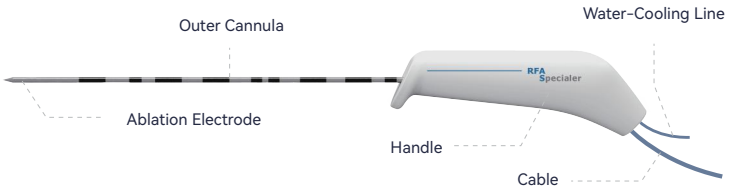
450kHz	50 W	AC 220 V, 50 Hz	6.5 kg
Radiofrequency	Peak Power	Power Input	Main Unit Weight

Class I / Type CF Applied Part	320 × 360 × 170 mm	Up to 4 cm
Electric Shock Protection	Main Unit Dimensions	Recommended Tumor Diameter

System Components

Component	Quantity	Description
RFA-100 Main Unit	1	Control console with built-in intelligent algorithm
Temperature Probe	1	Real-time temperature monitoring input
RF Ablation Needle Multiple Specifications	3	For recommended tumor diameters of 2 cm, 3 cm and 4 cm, depending on clinical assessment.
Return Electrode Pad	10	Completes the RF circuit and supports real-time contact monitoring

RF Ablation Needles, Multiple Specifications



Temperature Probe

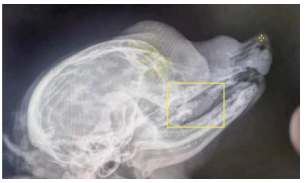


Before and After Images

Gentle ablation with clear boundaries



Before RF Ablation



After RF Ablation



14 Days After Ablation

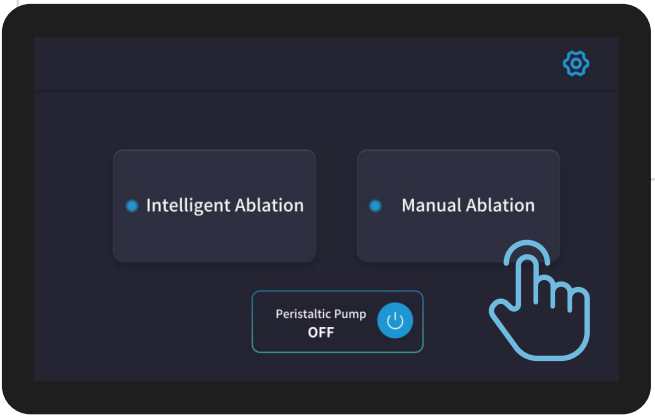
Technical Highlights

Precise Ablation, Less Pain

With dual monitoring of impedance and ablation margin temperature, the system provides real-time feedback on the ablation status of tumor tissue and precisely controls the ablation boundary. This helps prevent over-ablation, protects surrounding normal tissue and organs, and may help reduce surgical trauma and postoperative discomfort.

Fast and Efficient, Shorter Recovery

In Intelligent Ablation Mode, a single ablation session takes no more than 10 minutes, significantly improving surgical efficiency. After postoperative observation, recovery may be faster depending on the animal's condition and clinical assessment.



Dual-Mode Operation, Flexible Control

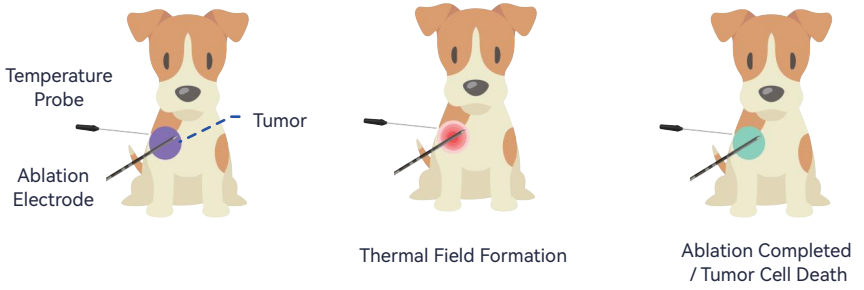
The main unit supports both Intelligent Ablation Mode and Manual Ablation Mode.

In Intelligent Mode, the built-in intelligent feedback control algorithm automatically adjusts and controls the entire ablation process, without requiring complex manual settings for output energy and ablation time.

Manual Mode meets personalized operating needs, offering greater flexibility and convenience.

Ablation Mechanism

When radiofrequency current passes through tissue, ionic agitation generates resistive heating around the active electrode. Heat is then conducted into adjacent tissue, resulting in protein denaturation and coagulative necrosis within the target area. By controlling power, temperature, and ablation time, the system aims to create a defined ablation zone while limiting thermal injury to surrounding tissue.



Core Control Features

01 Dual-Variable Feedback Control Algorithm

Real-time monitoring of tumor tissue impedance and temperature changes, with dynamic adjustment of power and ablation time.

02 Intelligent Mode / Manual Mode

One-touch intelligent ablation without parameter setting; manual adjustment is also available for personalized operation.

03 Closed-Loop Temperature Probe Control

Closed-loop temperature control helps prevent central carbonization while helping maintain defined ablation margins.

Real-Time Parameter Monitoring

During ablation, key parameters such as temperature, power and impedance are updated in real time, making the ablation process clear and intuitive. The system automatically stops when ablation is completed, reducing the surgeon's workload and dependence on operating experience.



Reliable Safety Protection

The high-performance microprocessor intelligently identifies the contact status of the return electrode pad, effectively preventing overheating of the return electrode pad. With precise and stable power output, the system helps reduce the risk of adverse events and provides reliable protection for surgical safety.



Cost-Effective and Economical

Surgery can be performed with a one-time equipment investment, while the main unit can be used long term.

As a reusable RF ablation needle, it helps reduce per-procedure cost after validated cleaning and sterilization.



User-Friendly and Easy to Operate

Before surgery, the surgeon only needs to select the corresponding ablation needle specification according to the tumor size. Ablation treatment can then be started with one touch, making operation extremely simple.

The RF ablation needle adopts a tri-bevel needle design for stronger puncture performance, helping avoid damage to other tissue.

The device is equipped with a large touchscreen and an intuitive user interface, making operation easier to learn and master.

