ReinnoVet

UG-100

Ultrasonic Surgical System

Designed for Routine Veterinary Soft-Tissue Surgery

UG-100 is designed for routine veterinary soft-tissue cutting and vessel sealing. Powered by a stable 55.5 kHz ultrasonic platform, it provides refined cutting, reliable vessel sealing, low smoke generation and limited thermal spread, supporting efficient workflows across a wide range of veterinary procedures.



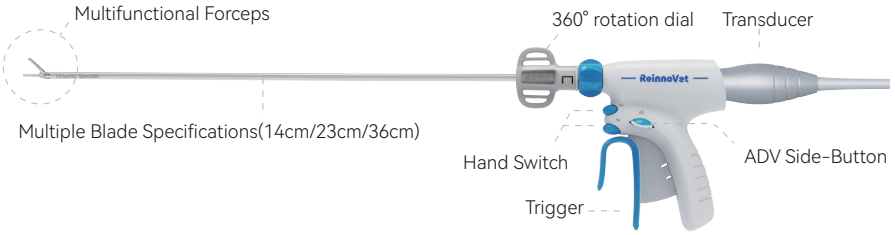
55.5 kHz	45 W	Up to 5 mm	Levels 1-5
Output Frequency	Peak Power	Vessel Sealing Capacity	Cutting Levels

2.85 kg	AC 220 V, 50 Hz	CF-Type / Class I
Unit Weight	Power Input	Shock Protection

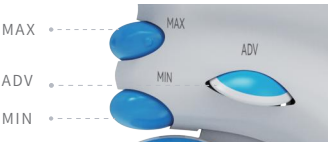
UG-100 Blade and Instrument Configuration

ADV Side-Button Ultrasonic Forceps Blade

- UG-100 | ADV Side-Button Ultrasonic Forceps Blade



(Optional 14 cm / 23 cm / 36 cm ADV side-button ultrasonic blade)



MAX Mode:Faster cutting and sealing of vessels up to 3 mm.

MIN Mode: Reliable sealing of vessels up to 5 mm.

ADV Mode:

Enhanced sealing mode for vessels up to 5 mm, designed for improved ergonomics and a higher sealing safety margin.

Levels 1–3:

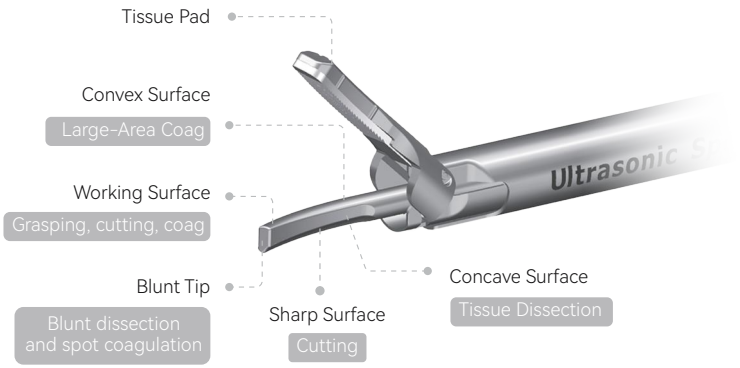
Recommended for sealing vessels from 3 mm to 5 mm in diameter.

Levels 4–5:

Recommended for vessels and tissue of 3 mm or less, as well as for tissue cutting.

Users may select the appropriate level based on the clinical situation and operating experience.

> Compared with MIN, ADV offers a slightly lower cutting speed but provides a higher burst-pressure safety margin for safer and more reliable vessel sealing.





High-performance piezoelectric ceramic chip with stable amplitude output

Technical Advantages

01

Minimal Thermal Damage

Thermal spread < 1 mm
Protects surrounding tissue

02

Tissue-Adaptive Algorithm

Real-time frequency tracking
Intelligent energy adjustment

03

ADV Side Button

Dynamic output adjustment
Safer vessel sealing

04

Strong Anti-Adhesion Performance

Less eschar formation
Reduces surgical interruptions

05

Low Smoke Generation

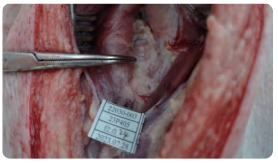
Less smoke during cutting
Clear surgical field of view

06

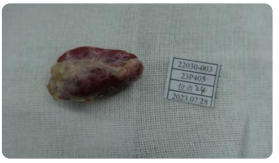
Multiple Blade Lengths

Optional 14 cm, 23 cm and 36 cm blades
Suitable for different surgical access requirements

Product Innovation: Proprietary Algorithm



Thyroid Resection Surgical Site



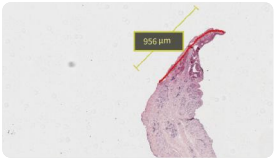
Excised Thyroid Specimen



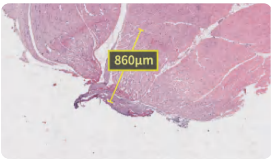
Recovery of the Resection Site 28 Days Post-Operation

> Good wound healing, with no infection, bleeding, or hematoma observed.

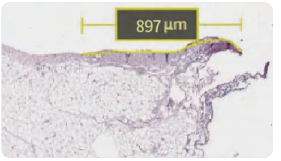
Minimal Thermal Damage



Uterine Mesentery Section (956 μm)



Muscle Section (860 μm)



Small Intestinal Mesentery Section (897 μm)

Lateral Thermal Damage	The distance from the farthest point of tissue degeneration to the cutting surface. For blood vessels, lateral thermal damage refers to the distance along the tissue edge. For non-vascular tissue, it refers to the linear distance.

Animal Study





> Data and images are from ReinnoVet ultrasonic scalpel in vivo porcine studies.

Applicable Surgeries

