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SA Series High Performance Multifunctional Veterinary Endoscope



One Endoscope for Multiple Uses, Exquisite Craftsmanship for Pet

Founded in 2014, SOAIM leverages its years of accumulated precision endoscope engineering to make veterinary diagnostics more accurate, efficient, and effortless.

PRODUCT INTRODUCTION

- The SA Series Veterinary Endoscope, built upon years of profound accumulation in industrial endoscopy, is meticulously crafted specifically for veterinary clinical practice.
- Won the second prize in the team category of the 2015 Shenzhen Innovation and Entrepreneurship Competition.

- The device supports multiple specification probes (3.9mm and 5.8mm), which can be quickly replaced within 3 seconds, enabling one device for multiple uses;

3s

Quick replacement within 3s

- Equipped with a high-definition camera for clear imaging and rich details;

120°-140°

120°-140° field of view

- The whole unit is lightweight and portable; the probe features IP67 waterproof rating, making it easy to clean and disinfect;

IP67

IP67 Waterproof

- Supports wireless connection and APP control, significantly enhancing operational flexibility and diagnostic efficiency;
- Suitable for minimally invasive examinations of the digestive tract, respiratory tract, etc., contributing to more accurate, efficient, and lower-stress pet diagnosis and treatment.

TECHNICAL FEATURES

HIGH-DEFINITION IMAGING, CLEAR VISION

- Equipped with 0.16MP / 0.5MP / 1MP camera modules, to suit different examination needs; images are clear with rich details.
- 120°-140°field of view design provides a wide observation range and reduces blind spots.
- Depth of field range 5-100mm, providing clear imaging for both close and distant views.
- Front LED illumination with 0-3 level adjustable brightness ensures optimal viewing.

SA-Pro



MULTI-PROBE COMPATIBLE, ONE MACHINE FOR MULTIPLE USES

- Supports two standard probe specifications: $\Phi 3.9\text{mm}$ and $\Phi 5.8\text{mm}$, meeting the examination needs of different areas.
- The probe connects quickly via a Type-C interface, allowing for rapid replacement.
- Can be adapted to different animal sizes and examination areas (e.g., respiratory tract, digestive tract).
- One host unit paired with multiple probes significantly reduces equipment procurement and maintenance costs.
- Specific parameters (e.g., tube diameter, illumination, depth of field, pixel, field of view, working length, bending angle, etc.) and other requirements can be customized by contacting relevant personnel.



TECHNICAL FEATURES



Integrates air insufflation, water injection, suction, and instrument channel through a Y-valve.

Connecting a manual air balloon enables cavity expansion, improving the viewing field.

Connecting a syringe allows water injection for lens cleaning or liquid suction, maintaining clarity during procedures.

Supports the insertion of disposable consumables like biopsy forceps and cytology brushes for sampling operations.

Accessories include: Y-connector, Three-way stopcock, Syringe, Luer connector, Insufflation bulb

MODULAR INTEGRATED OPERATION

TECHNICAL FEATURES

DUAL MODELS FOR FLEXIBLE ADAPTATION

SA-Air



SA-Pro: 5-inch high-definition screen (800x480), ready to use upon startup, intuitive operation.

Supports external monitor connection via Mini HDMI (800×480 resolution) for simultaneous split-screen display.

SA-Air: Wireless connection design, can connect to phones/tablets via Wi-Fi or wired connection.

Core functions are controlled via a dedicated APP, facilitating image management and client communication.

TECHNICAL FEATURES



EASY OPERATION, USER-FRIENDLY

The host integrates physical buttons for photo, video, freeze, light adjustment, etc., for intuitive operation. Joystick controls 360° omnidirectional steering of the probe, offering flexible turning and precise positioning. Supports quick image freeze to capture transient lesions. Menu-style system settings support adjustment of image parameters like brightness and color.



SAFE, DURABLE, EASY TO MAINTAIN

Probe protection rating reaches IP67, can be immersed for cleaning, meets clinical disinfection requirements. The tube is made of polyurethane, flexible, kink-resistant, and wear-resistant.

LONG BATTERY LIFE, STRONG EXPANDABILITY

Built-in 3.7V/5000mAh high-capacity lithium battery, continuous working time 4 hours. Supports Type-C charging, convenient charging, compatible with common chargers. Supports TF card expansion storage, up to 32GB, meets case storage needs. Supports picture/video import and export via data cable, facilitating case archiving and sharing.

OPERATIONAL SCENARIOS



DIGESTIVE TRACT EXAMINATION AND FOREIGN BODY REMOVAL

- Examine lesions such as gastritis, gastric ulcers, intestinal polyps in dogs and cats;
- Locate and remove foreign bodies in the digestive tract such as swallowed bones, toys, fish hooks, etc.;
- Insert biopsy forceps through the instrument channel for tissue sampling, aiding in the diagnosis of tumors or inflammation.

RESPIRATORY TRACT EXAMINATION

- Observe inflammation, bleeding, or foreign bodies (e.g., grass seeds, hair) in the nasal cavity, larynx, and trachea;
- Aid in diagnosing the causes of chronic coughing, sneezing, and dyspnea in dogs and cats;
- Perform local irrigation or secretion suction under direct vision to improve ventilation.

INTRAOPERATIVE ASSISTANCE AND POSTOPERATIVE EVALUATION

- Assist in confirming the location of lesions during surgical procedures;
- Postoperatively check wound healing or for any residual foreign bodies;
- Reduce the risk of secondary surgery and improve surgical precision.

TEACHING AND CLIENT COMMUNICATION

- Transmit endoscopic images in real-time to an external display or mobile phone or assistants and students to observe and learn;
- Show lesion images to pet owners, visually explain the condition and treatment plan, enhancing trust and cooperation;
- Gastrointestinal examination: Diagnosis and biopsy of gastritis, foreign bodies, ulcers, polyps, etc.

SPECIFICATION PARAMETERS

Main Unit		
Model	SA-Pro (Display Version)	SA-Air (Wi-Fi Version)
Display	5-inch HD touchscreen (800×480)	None (external device required)
Operation	Handheld main unit with physical buttons	App + physical buttons
Image Zoom	5×partial zoom	5×partial zoom
LED Brightness	0–3 levels	0–3 levels
Image Operations	Photo capture, video recording, image freeze	Photo capture, video recording, image freeze
File Format	Image: JPEG/BMP; Video: Mp4	Image: JPEG/BMP; Video: MP4
Storage	8GB TF card (max. 32GB)	Mobile phone storage via Wi-Fi
Languages	10+ (CN, EN, JP, KR, FR, DE, RU, etc.)	Multi-language synchronized with external app
Output Interface	Mini HDMI, Type-C	Type-C
Wireless	Not supported	Wi-Fi & wired to phone/tablet/monitor
Firmware Upgrade	TF card, USB	—
Main Unit Dimensions	260×140×88 mm	140×259×84 mm
Main Unit Weight	0.5 kg (with battery)	0.45 kg (with battery)
Tube System		
Oprobe Diameter	Φ3.9mm (0.16MP, 0.5MP), Φ5.8mm (1MP)	
Field of View (FOV)	Φ3.9mm 120°, Φ5.8mm 140°	
Depth of Field	3-50mm	

Tube System	
Illumination Method	Front-mounted LED light sources
Steering Control	Mechanical-controlled joystick, 360° all-way articulation
Bending Angle	180°-210°
Tube Material	Medical-Grade Polyurethane Tube
Tube Length	1m
Connection Method	Type-C interface, with release button, detachable and replaceable
Electrical & Power	
Battery Type	Rechargeable lithium battery (3.7V/5000mAh)
Battery Life	4 hours
Charging Time	≤2.5 hours
Battery Protection	Short circuit protection
Charging Interface	Type-C
Physical & Environmental	
Host Protection Level	IP54
Tube Protection Level	IP67 (Dustproof and waterproof, supports immersion)
Operating Temperature	Host: -10°C~50°C Probe: -20°C~60°C
Storage Temperature	20°C~60°C
Relative Humidity	15%~90%
Drop Test	Complies with GB/T2423.8-1995 standard
Standard Configuration	Optional Accessories
1 host unit,1 dedicated instrument case, 1 lithium battery, 1 charger, 1 card reader, 1 8GB TF storage card, 1 user manual,1 basic accessory kit (Y-connector, Three-way stopcock, Syringe, Luer connector, Insufflation bulb), 1 magnetic base, Customizable multi-spec insertion tubes (standard supply per order)	Mini HDMI cable, Accessory kit