



Veterinary Nanoscope Solution

RVE Series USB Nano Scope

Portable High-Definition Endoscopic System with USB Connectivity

Product Overview

- The USB Nano Scope offers a highly compact and cost-effective endoscopic imaging solution ideal for both routine and specialized veterinary procedures. Engineered for versatility and mobility, this model eliminates the need for a separate control box by supporting direct USB connection to a wide range of host devices.
- Its sleek design and simplified interface allow for easy integration into mobile clinical settings, outpatient procedures, and point-of-care diagnostics, particularly in reproductive, orthopedic, and internal assessments.

Key Features

- Universal USB Interface: Compatible with all major USB-enabled devices including laptops, tablets, and select Android platforms. No external power supply required.
- One-Touch Smart Operation: Features integrated buttons for real-time photo capture and video recording during procedures, enabling sterile single-handed operation.
- Compact & Lightweight: Designed for field use or in-clinic mobility. Ideal for scenarios where space, portability, or simplicity is crucial.
- High-Resolution Imaging: Despite its compact form factor, the system delivers clear and detailed visualization for accurate assessments.

Key Application Areas of NanoScope

I. Applications in Canine and Feline Medicine

1. Minimally Invasive Joint Diagnosis & Treatment

- Core Advantage: Replaces bulky traditional arthroscopes with ultra-thin endoscopic access—ideal for small joints such as the stifle, shoulder, and elbow.
- Primary Clinical Uses:
 - Diagnosing joint conditions (synovitis, OCD, ligament injuries)
 - Guiding cartilage debridement or meniscus treatment
 - Providing real-time viewing for shaver burr interaction

2. Tendon Sheath Examination

- Enables direct, minimally invasive visualization of structures such as the biceps brachii and peroneal tendons for diagnostic purposes.

3. Advantages Over Other Imaging Modalities

Compared to X-ray: Offers direct soft tissue visualization that X-ray cannot provide.

Compared to MRI: More cost-effective and unaffected by metallic implants, providing a practical in-clinic solution.

II. ENT (Ear, Nose, and Throat) Applications

1. Nasal Endoscopy – A Key Differentiator

- Breakthrough Feature: Ultra-slim design allows navigation of narrow nasal passages where conventional endoscopes (>2.7mm) cannot reach.
- Main Clinical Uses:
 - Targeted biopsy of nasal masses or tumors
 - Evaluation of chronic rhinitis or sinusitis
 - Retrieval of foreign bodies
 - Localization of epistaxis (nosebleed) sources

2. Otologic (Ear) Applications

- Enables direct visualization of the tympanic membrane and middle ear, offering a painless and complete inspection of the external auditory canal.

3. Laryngeal Assessment

- Used to assess laryngeal paralysis and airway obstructions, particularly in Brachycephalic Obstructive Airway Syndrome (BOAS) cases.

III. Innovative Applications in Exotic Animal Medicine

1. Ultra-Minimally Invasive Access

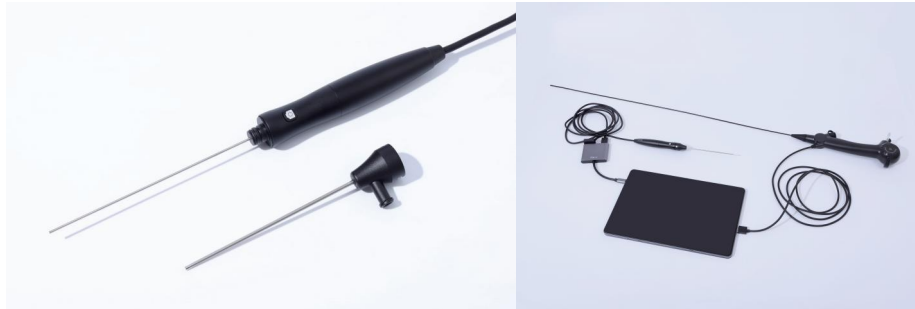
- The NanoScope's compact size allows access via natural orifices or tiny incisions, minimizing trauma and recovery time.

2. Multi-Species Versatility

Enables direct visualization of the tympanic membrane and middle ear, offering a painless and complete inspection of the external auditory canal.

- Birds: Respiratory and gastrointestinal tract visualization
- Reptiles: Coelomic cavity examination (coelomoscopy)
- Small Mammals: Dental and urogenital tract endoscopy
- Others (Fish, Amphibians, Invertebrates): Precision diagnostics for micro-anatomical structures

Specifications



Item Code	Probe Size (Diameter × Length)
RVE 1367-0	1.3 mm × 67 mm, 0°
RVE 1310-30	1.3 mm × 100 mm, 0°
RVE 1317-0	1.3mm*175mm, 0°
RVE 1967-0	1.9 mm × 67 mm, 0°
RVE 1910-0	1.9 mm × 100 mm, 0°
RVE 1917-0	1.9mm*175mm, 0°
RVE 1967-30	1.9 mm × 67 mm, 30°
RVE 1910-30	1.9 mm × 100 mm, 30°
RVE 1917-30	1.9mm*175mm, 30°
RF-25	2.5mm*650mm, Working Channel 1.2mm
Sheath & Trocar	Compatibile 1.3mm x 67mm, 0° 1.3mm x 100mm, 0° 1.3mm x 175mm, 0° 1.9mm x 67mm, 0° / 30° 1.9mm x 100mm, 0° / 30° 1.9mm x 175mm, 0° / 30°

*1.9mm can be customize HD resolution

Optional PIM System

1. Optional Paid Buyout for Nano Scope PIM System Function Software (With USB Pass Key) Provides an optional one-time paid buyout to permanently unlock the Nano Scope PIM system function software.
2. Paid Built-in PIM Function Software on Windows-Based Tablet Windows-based tablet with built-in PIM function software, available as a paid option.

