Endoscopy in Small Exotic Animals
Set for birds, reptiles, amphibians, small mammals and fishes
Endoscopy – an Essential Tool for the Exotic Animal Veterinarian

**Structures Visualized:**
Heart
Lungs
Air sac
Proventriculus
Ventriculus
Intestines
Pancreas
Spleen
Adrenal glands
Kidneys
Ureter
Reproductive tract
Esophagus
Crop
Cloaca
Trachea
Syrinx
Fat bodies
Swim bladder
Gills
Teeth
Larynx
Liver

**Endoscopic Procedures:**
Coelioscopy
Biopsy
Gender identification
Sampling of debris
Foreign body retrieval
Cloacoscopy
Cystoscopy
Rhinoscopy
Otoscopy
Vaginoscopy
Intubation
Thoracoscopy
Arthroscopy
Minimally invasive surgery
LASER and Electro surgery
Fine needle injection or aspiration
Saline-infused gastro-intestinal endoscopy
Therapeutic curettage and
lavage of lesions
Salpingectomy, ovariectomy,
orchidectomy
Oral cavity examination and
dental procedures
The small and delicate nature of many exotic animals makes them ideally suited for endoscopy. In fact, the benefits of magnification, illumination and minimal invasion have led to the widespread acceptance of endoscopy as a routine diagnostic technique in birds, reptiles, amphibians, small exotic mammals and fish.

Comments from veterinarians

“This makes me more confident as a practitioner.”
“I am finally getting answers that I would have otherwise missed.”
“We all know that a definitive diagnosis requires a biopsy!”
“I get more referrals and better income!”
“How can I afford NOT to have endoscopy?”

Fig. 1:
Turtle, immature ovary
Fig. 2:
Iguana, testes and vas deferens
Fig. 3:
Iguana, esophagus with fluid infusion
Fig. 4:
Ferret, cranial abdomen
Fig. 5:
Plum-headed parakeet, testes
Fig. 6:
White cockatoo, cloacal lymphoma
Fig. 7:
Amazon parrot, cranio-thoracic air sac
Fig. 8:
Guinea pig, molar malocclusion
Fig. 9:
Amazon parrot, testes

Endoscopic images courtesy of
Dr. Stephen Divers, University of Georgia (1, 2, 3); Dr. Michael Murray, Monterey Bay Aquarium (4, 5, 6); and Dr. Michael Taylor, University of Guelph (7, 8, 9).
NEW

Multi-Purpose Rigid Telescope, 2.7 mm, for universal use
Newly designed optics generate a larger image, making details easier to see than ever before.

HOPKINS® Forward-Oblique Telescope 30°, enlarged view, diameter 2.7 mm, length 18 cm, autoclavable, fiber optic light transmission incorporated, color code: red

Examination and Protection Sheath
• Protects the telescope during examination

Examination and Protection Sheath,
diameter 3.5 mm, working length 17 cm,
for Telescope 64029 BA

Avian Operating Sheath
• Enables the use of flexible instruments size 5 Fr.

Avian Operating Sheath, 14.5 Fr., working length 14 cm, with working channel 5 Fr. and two stopcocks including:
Avian Examination Sheath
Blunt Obturator

Trocar 3.9 mm, for use with Telescope 64029 BA and Protection Sheath 64018 US
• For laparoscopy, multipuncture approach

Trocar, size 3.9 mm, color code: red, including:
Trocar, with pyramidal tip
Cannula, with outer thread, length 5 cm, with Luer-Lock connector for insufflation, Silicone Leaflet Valve
Instruments for use with Avian Operating Sheath 67065 CV

67161 Z  **Biopsy Forceps**, flexible, oval, double action jaws, 5 Fr., length 34 cm
The most versatile biopsy forceps: For the collection of deep, longitudinal samples. Also useful for sampling exudate and debris.

67161 T  **Grasping Forceps**, flexible, double action jaws, 5 Fr., length 34 cm
Large serrations make these forceps particularly useful for grasping medium to large objects and removing exudate and debris.

62501 EK  **Scissors**, flexible, single action jaws, 4 Fr., length 34 cm
The scissors are an essential part of the operating system. Air sac, peritoneal and pleural membrane can be easily incised.

67071 X  **Flexible Needle**, with outer tube, total outer diameter 1.5 mm, tube length 31 cm, needle outer diameter 0.7 mm
Used for injection, aspiration and irrigation.

67159 L  **Polypectomy Snare**, 5 Fr., length 32 cm,
including:
- Handle
- Tube
- Snare
- Adaptor
Used for ovariectomy and orchidectomy in birds and reptiles

67023 VK  **Stone Basket**, flexible, 5 Fr., length 60 cm,
including:
- 3-Ring Handle
- Basket
- Coil
The ideal solution for the retrieval of smooth or rounded objects

67772 A  **Needle Electrode**, unipolar, 5 Fr., length 53 cm.
The needle can be energized using a radiosurgical unit for incision and coagulation of structures.
BLAKESLEY Forceps
- For trimming teeth of rabbits and rodents

BLAKESLEY Forceps, straight, size 1 (3.5 mm), working length 11 cm

Mini Multi-Purpose Rigid Telescope
- Operating telescope for celioscopy, cystoscopy, rhinoscopy and cloacoscopy in smaller exotic animals

Operating Telescope 30°, 9.5 Fr., working length 14 cm, autoclavable, fiber optic light transmission incorporated, with working channel 3 Fr. and 2 LUER-Lock cones, color code: red
Instruments for use with Operating Telescope 67030 BA

- **Biopsy Forceps**, double action jaws, flexible, 3 Fr., length 28 cm
- **Grasping Forceps**, for removing foreign bodies, double-action jaws, flexible, 3 Fr., length 28 cm

These delicate forceps are useful for blunt dissection or for grasping smaller objects.

**Miniature Telescope**
- For tracheoscopy, cystoscopy and rhinoscopy in smaller patients

- **Miniature Straight Forward Telescope 0°**, semi-rigid, diameter 1 mm, length 20 cm, fiber optic light transmission incorporated, color code: green
Insufflation

62 4325 01  **CO₂ ENDO-ARTHROFLATOR VET,**
power supply 100 – 240 VAC, 50/60 Hz
including:
Silicone Tubing Set, sterilizable
Universal Wrench
Gas Filter, sterile, for single use, package of 10

62120 J  **VERESS Pneumoperitoneum Needle,**
with spring-loaded blunt stylet, LUER-Lock, *autoclavable,*
diameter 2.1 mm, length 10 cm
VITOM® 25

Make use of your endoscopy tower for open surgery too! The VITOM® provides a bright, magnified view of any open surgery. Particularly useful for teaching, recording, or performing any difficult access surgical intervention.

VITOM® 25 HOPKINS® Straight Forward Telescope 0°, working distance 25-75 cm, diameter 10 mm, length 11 cm, autoclavable, fiber optic light transmission incorporated, color code: green

Holding System, autoclavable, with quick release coupling KSLOCK
including:
Rotation Socket, to clamp to the OR table, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand
Articulated Stand, reinforced version, L-shaped, especially large swivel range, with one mechanical central clamp for all five joint functions, height 48 cm, swivel range 66 cm, with quick release coupling KSLOCK (female)
Clamping Jaw, metal, for use with all square-headed KARL STORZ HOPKINS® telescopes, clamping range 16.5 up to 23 mm, with quick release coupling KSLOCK (male)
Mobile Endoscopic Imaging System

Five devices, one compact unit

This high-performance, all-in-one unit integrates every component necessary for endoscopic imaging: camera, light source, monitor, insufflation pump and image capture. The TELE PACK VET X LED is compatible with all types of endoscopes, including videoendoscopes, rigid telescopes, fiberscopes and exoscopes.

RP 100 S1

**TELE PACK VET X LED**, endoscopic video unit for use with all KARL STORZ TELECAM one-chip camera heads, veterinary video camera heads and video endoscopes, with integrated insufflation pump, incl. LED light source similar to Xenon technology, with integrated digital Image Processing Module, 15” LCD TFT monitor with LED backlight, USB/SD memory module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:
- **USB Flash Drive**, 32 GB
- **Mains Cord**
- **Mains Cord**, US plug
- **Case**

RP 100 S2

Same, without case

For Optional Accessories, see ENDOWORLD® VET 36, TELE PACK VET X LED
Camera Head

20 2120 30  PAL  TELECAM  One-Chip Camera Head
20 2121 30  NTSC

color systems PAL/NTSC, soakable, gas-sterilizable, with integrated Parfocal Zoom Lens, $f = 25-50$ mm, (2x), 2 freely programmable camera head buttons

For other camera head options, see ENDOWORLD® VET 36, TELE PACK VET X LED

Fiber Optic Light Cable

69495 NA  **Fiber Optic Light Cable**, with straight connector, diameter 3.5 mm, length 230 cm

Adaptor

20030030  **Adaptor**, with insufflation connector

Check out our schedule of upcoming hands-on training courses at [http://go.karlstorz.com/eventsVET](http://go.karlstorz.com/eventsVET)