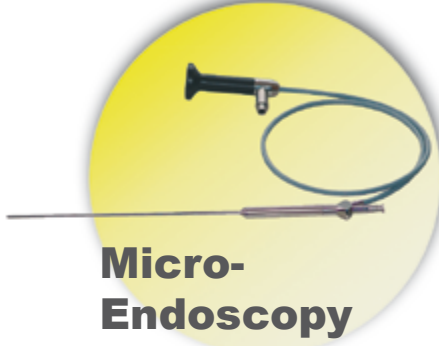


# SMALL ANIMAL



## Postrhino-/Oto- Vaginoscopy

page 23-30



## Micro- Endoscopy

page 31-34



## Video Compact- System

page 11-22



## Bronchoscopy

page 35-38



## Gynecology

page 47-52



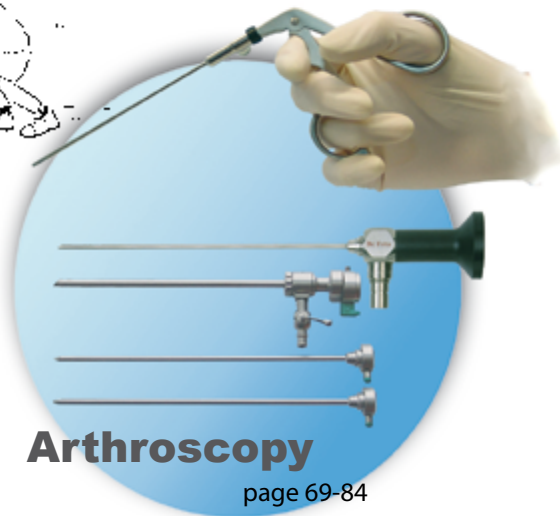
## Gastroscopy

page 39-46



## Laparo-/ Thoracoscopy

page 53-68



## Arthroscopy

page 69-84



## Pets, Birds, Exotic Species

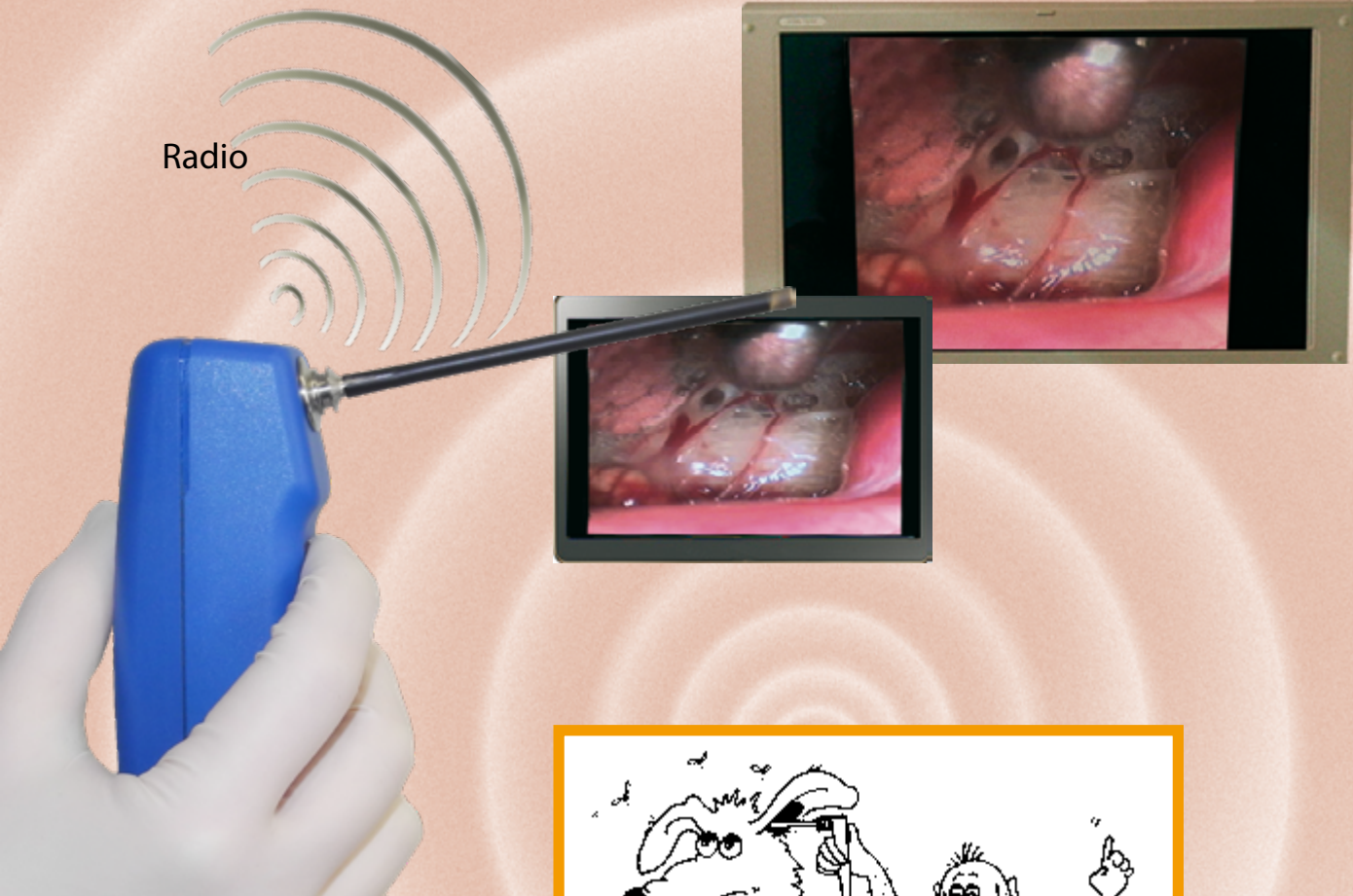
page 85-88



## Dogs, Cats, Pets and Exotic Species

Endoscopic video equipment, wireless  
– camera system with integrated LED light –

KT



Video Compact System 3, wireless,  
the dental and otoscope system  
for general ambulatory use

## Dogs, Cats, Pets and Exotic Species

- Camera system, wireless with integrated LED light for every consulting room -

### Video-Compact-System 3, wireless

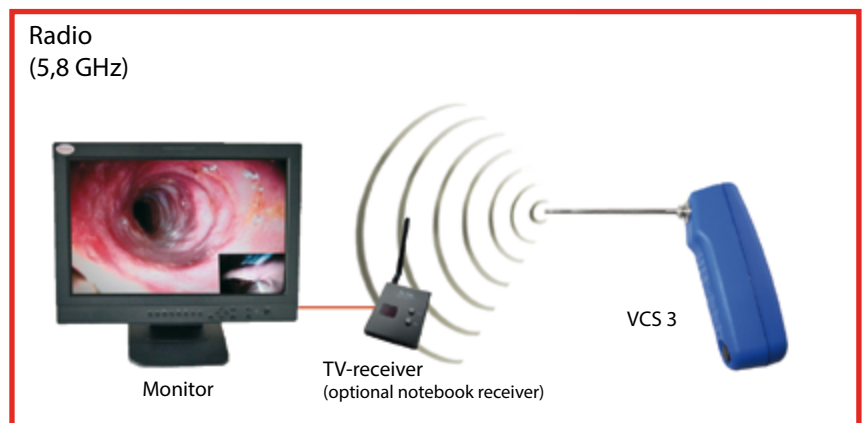
for dental, otoscopy and dermatology for every small animal consulting room

- integrated sender 5,8GHz for wireless video transmission
- high resolution
- easy handling, quick cleaning and disinfection
- fully immersible



97-FU17BS Video Compact System 3, wireless, 3,5 mm, 9cm, „standard set“ complete, with radio transmission for TV & notebook or PC, in-built Li battery, resolution: 400x400 including charger, wall mount; examination & working sheath, biopsy forceps (B20-135) Monitor 7" incl. receiver (TXM7-58E) Cleaning brush 110-230VAC, 50/60Hz

Video transmission:



# Dogs, Cats, Pets and Exotic Species

- Camera system, wireless with integrated LED light for every consulting room -

Items in the set:

**97-FUS4** **Dental sheath**, for video compact system, OD:9mm, 91mm, 1 pc

**97-FUS5** **Working funnel**, for Video Compact System 3; 1pc - non autoclavable -

**97-FUS2-20** **Protection sheath**, disposable, for Video Compact System 3, box with 20 pcs



including charger (97-FU16) / wall mount (97-FU16-2)

## Special accessories:



97-FUS6



TXL1-583  
TV receiver

**97-FUS6** **Examination sheath**, metal, for Video Compact System 3; 5mm, WL: 90mm

For connection to TV / monitors:

TXL1-583 TV receiver, 5,8GHz, only, standard, for TX/TD/TX series, video outlet: VHS/FBas, 60g, power supply: 115-240VAC/50/60Hz

For connection to PC/notebooks:

TXL1-7-NO2 Receiver, 5,8GHz, with USB cable for notebooks and PCs, with power supply, incl. grabber (without picture)

\*\*\*installation by the customer

## Additional equipment for VCS3 wireless for large animal practice - teat injuries -

Additional equipment SET-Z6-EW  
to be used in teat endoscopy  
consisting of:



<b>TR-04-84S</b>	sheath and trocar
ZB-5-3	battery air pump/tube
Z-40-05	palpation probe
Z-44-85	teat clamp, 12 cm
Z-55	teat knife acc. to Ebner
Z-47-300	stenosis cutter set, D: 3,0 & 3,3 mm
DE-5-17	cleaning brush, 17 cm
DE2014-41	sterilizing tray
K-4530-10	transportation case

more informations to VCS3 see page 145













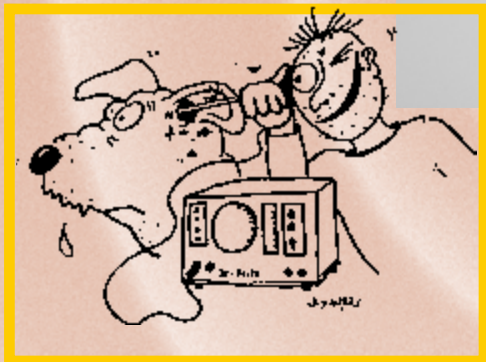
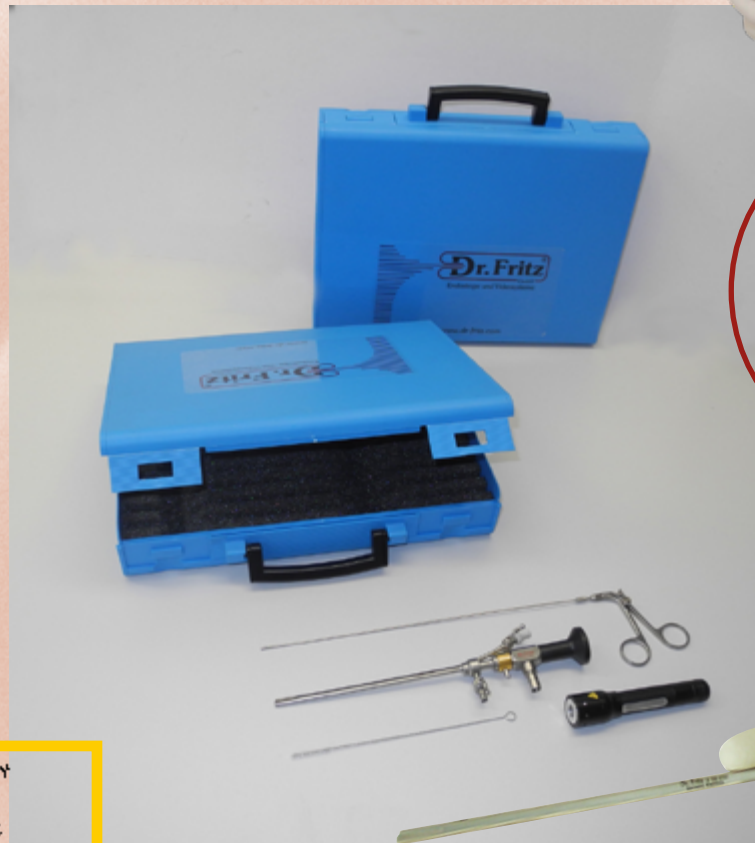
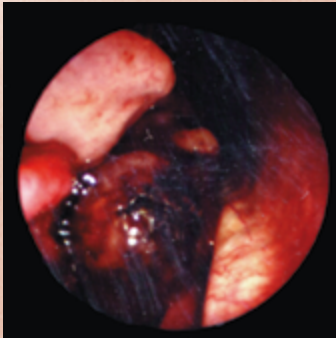






# Dogs, Cats, Birds and Exotic Species

Classic endoscopic equipment for the small animal practice  
- without camera system -



Rhinoscopy, Otoscopy  
Postrhinoscopy, Vaginoscopy

## Classic equipment

– for the Small Animal Practice –



The basic component of the latest Dr. Fritz rhinoscopy and otoscopy set is the small 2,7 mm rigid telescope. Mostly produced with the recommended 0° (30°) direction of vision. The scope is useful in most areas of ENT work, in gynaecology, in birds and exotic animals. The specially designed sheath has an integrated working channel allowing the use of biopsy and grasping forceps under visual control.

Technically the set is easy to handle and easy to clean. Flushing and suction is possible at any time. If you are using the new direct coupling system (Video-Compact-System) you can choose the latest generation of 2,7 m direct coupling scope to use the single cable technology. The additional small transportation case protects the instruments and helps to prevent losing single parts.

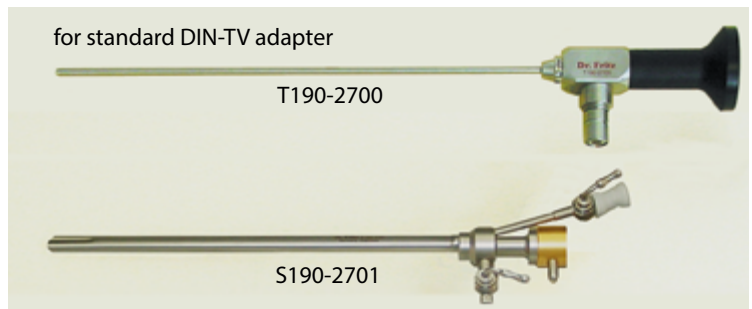
- detachable handle
- bright and light intensive image



### Large Image Telescope, 2,7 mm

T190-2700  
Wide angle telescope, 0°, large image technology, OD: 2,7mm, WL: 19cm, standard light cable connectors

See also Video-Compact-System III, page 11

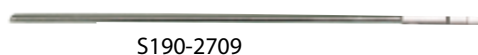


### Examination and Working Sheath

S190-2701  
Examination & working sheath for 2,7mm telescopes, 2,2mm instrument channel, LL(fem) connectors for irrigation, colour code: gold special design for rhinoscopy, bronchoscopy, otoscopy and cysto-/vaginology

S190-D  
Trocar only, blunt, for S190-270 series (without picture)

S190-2709  
Examination sheath, OD:3,8 mm, WL:16 cm, stop-cock, comp. with 2,7 mm telescopes, 0°





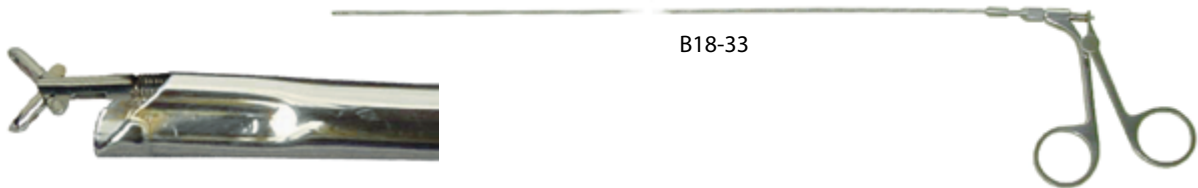
## Classic equipment

### Biopsy and grasping forceps

#### Biopsy and Grasping Forceps

compatible to examination sheath and video vaginoscope

• to take foreign bodies and biopsies under visual control through the examination sheath



B18-33

- B18-32 Flexible grasping forceps, OD:2mm,28cm premium quality
- B18-33 Flexible biopsy forceps, OD:2mm,35cm comp.to rhinoscope and vaginoscope, premium quality
- K-3325-60 Special transportation case, 33x25x6cm for post rhinoscopy set, complete

#### Biopsy and Grasping Forceps

Instruments for minor procedures through a second portal



B20-135

- B20-135 Bipsy forceps, small, OD:2 mm, 13 cm

## Classic equipment

### LED light handle – wireless video camera

#### LED accu light handle, high power, 3,7V

Lux: 7.000  
5.500 K  
ca. 45 Min. operational time

- fully immersible
- compatible to Dr. Fritz, Wolf

LED-8-35 LED light handle, accu power set, consisting of:  
handle only (LED-8-35G),  
charger (LED-8-35LA)  
Li accu block 3,7Vx 1Ah (LED-8-35AC)

– see section light sources



#### Portable LED Light Handle, mini, 1,5 V for endoscopy without video camera

- light weight
- easy handling
- directly compatible to your telescope

LED-8-32 LED endoscope light handle, mini, 1,5V,  
90 g, comp.to Dr.Fritz/ Wolf, including  
mignon battery, AA

Lux: 4.900  
6.100 K  
90 min operating time



## Classic equipment

### Set for rhinoscopy/otoscopy



SET-RHINO-E

#### SET-RHINO-E

Universal set for rhinoscopy/otoscopy in small animals, complete with transportation case, consisting of:

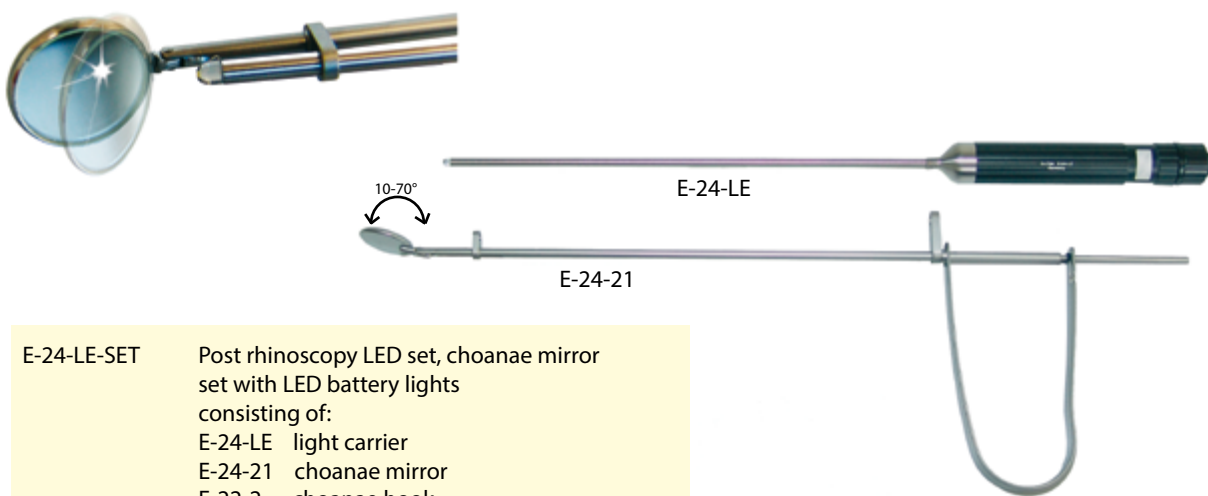
- special HD telescope, 2,7mm, 0°
- sheath with working channels
- grasping forceps
- cleaning brush
- LED light handle

# Post rhinoscopy LED mirror system for cats and dogs

Until now examination of retro pharynx was only possible for clinics and hospitals with appropriate endoscopic equipment. The newly developed deflecting mirror system allows the average practice to perform retro pharyngoscopy. Grasping of foreign bodies or taking biopsies under visual control are possible.



Choanae mirror with LED light, independent of endoscopes



- E-24-LE-SET Post rhinoscopy LED set, choanae mirror set with LED battery lights consisting of:
- E-24-LE light carrier
  - E-24-21 choanae mirror
  - E-22-2 choanae hook
  - E-22-71 Antifog

## Accessories:



- E-22-2 Epiglot double hook, 16 cm, for cats and middle sized dogs

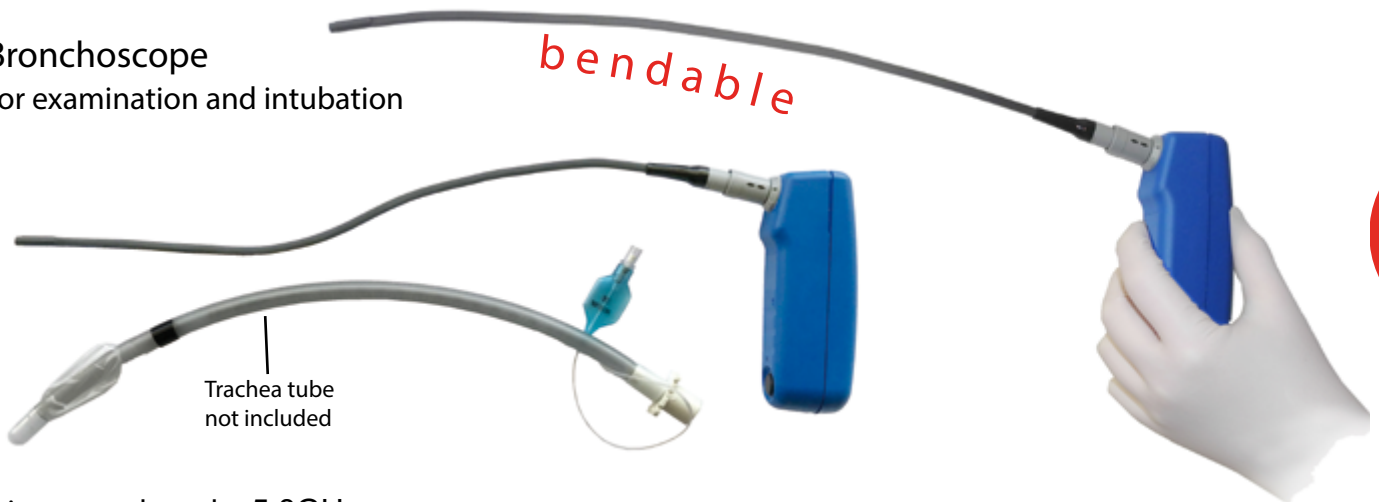


E-22-71

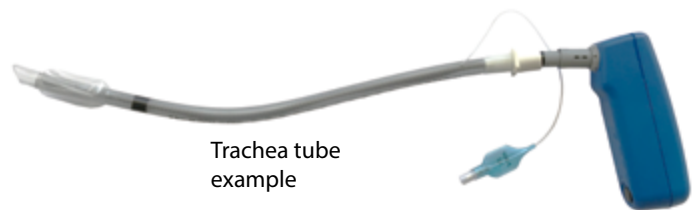
- E-22-71 Antifog fluid for endoscopes and mirrors, btl. with 50 ml
- K-3325-61 Special transportation case, 33x25x6 cm for post rhinoscopy set, complete (without picture)

## Semi disposable endoscope für die Diagnostik

Bronchoscope  
for examination and intubation



- integrated sender 5,8GHz for wireless video transmission
- high resolution
- easy handling, quick cleaning and disinfection
- fully immersible

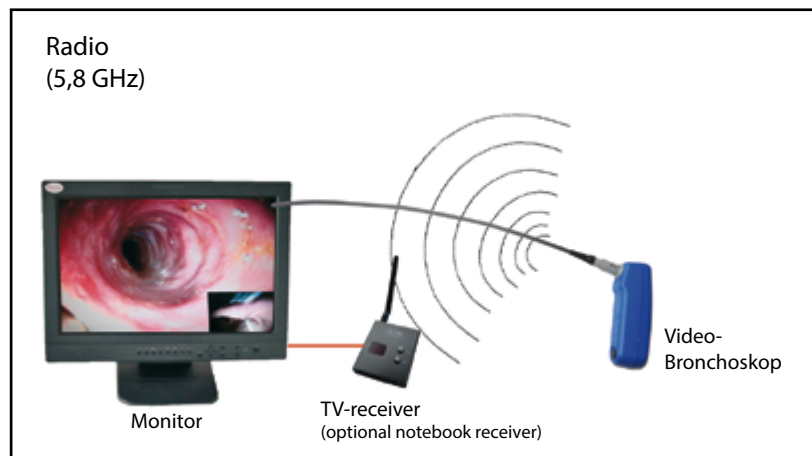


TV-E4G-SE Video and battery handle, Set, for plug-in endoscopes, only, with router and radio, 4p socket, for intubation, consisting of:  
handle (TV-E4G) with charging holder & power supply (220-240VAC,50/60Hz)  
1x attachment, 30 cm (TV-E4-30)



TV-E4-30 Video attachment scope, 0°, 4mm, 30cm, bendable, semi disposable, to be connected to handle TV-E4-G1

Video transmission:

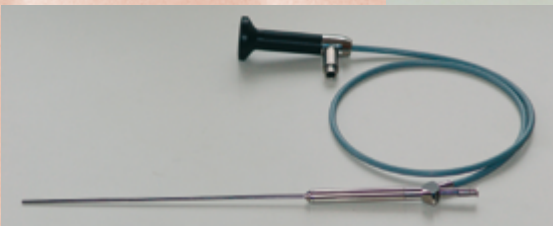
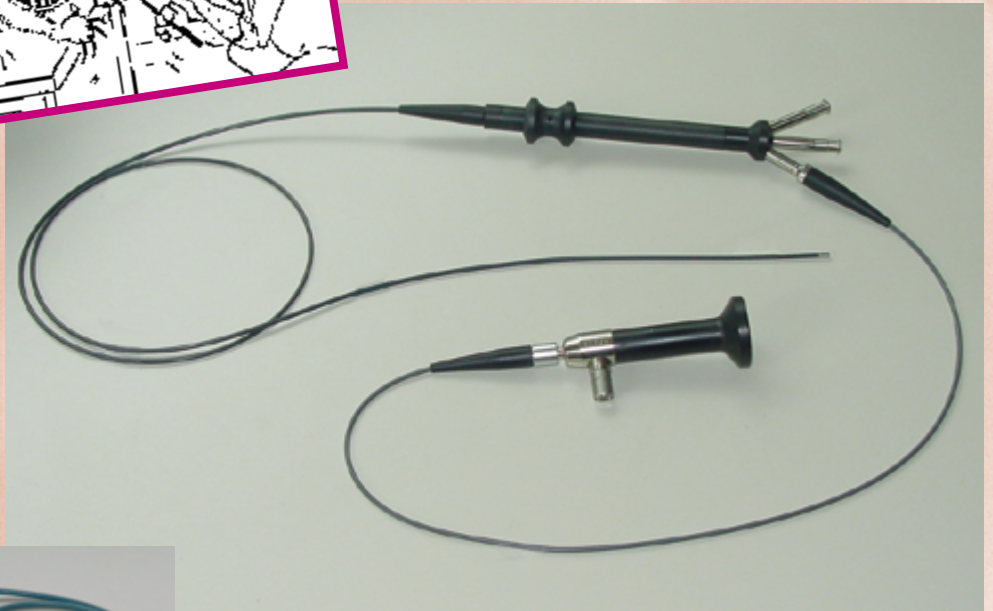




# Micro Endoscopes for small animals

Fiber optic semiflexible with integrated working channel

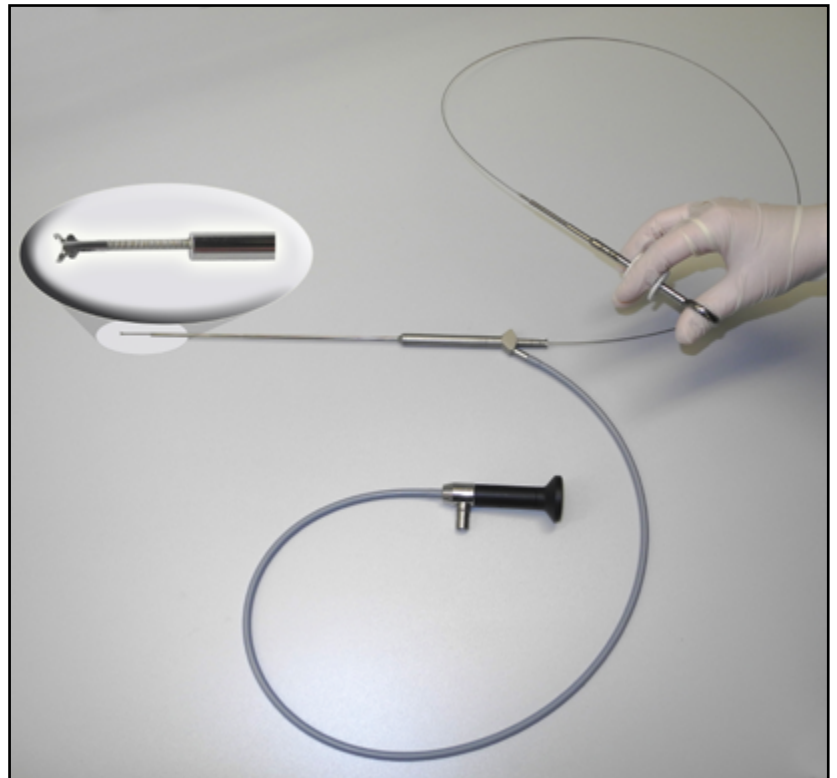
SA



Micro-Endoscopy  
– Working without limit –

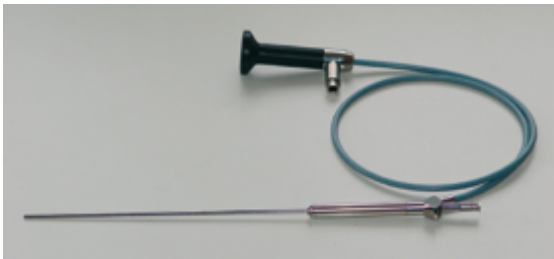
## Small Animals Micro rhinoscope semiflex

- specially for the nasal cavity and pharynx
- straight working channel for rigid instruments



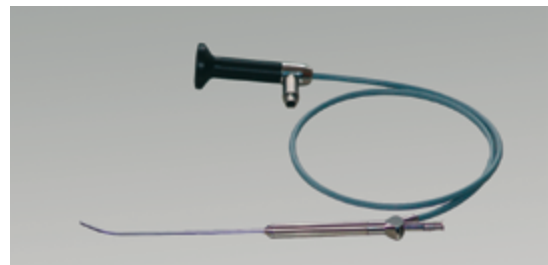
working channel for flexible biopsy forceps

conventional DIN Ocular



MI-25/186-11S

**MI-25/186-11S** Micro rhinoscope,  
OD:2,5/2,8mm,18,6cm,0°  
high definition fiber optic,  
15000 pixel, semiflexible,  
working channel:1,2mm,  
DIN ocular flexible with standard,  
light cable connectors  
biopsy forceps (B10-351)  
transportation case (K-4435-70)

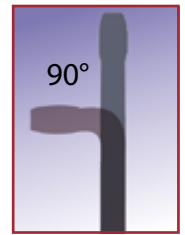


MI-25/10R30S

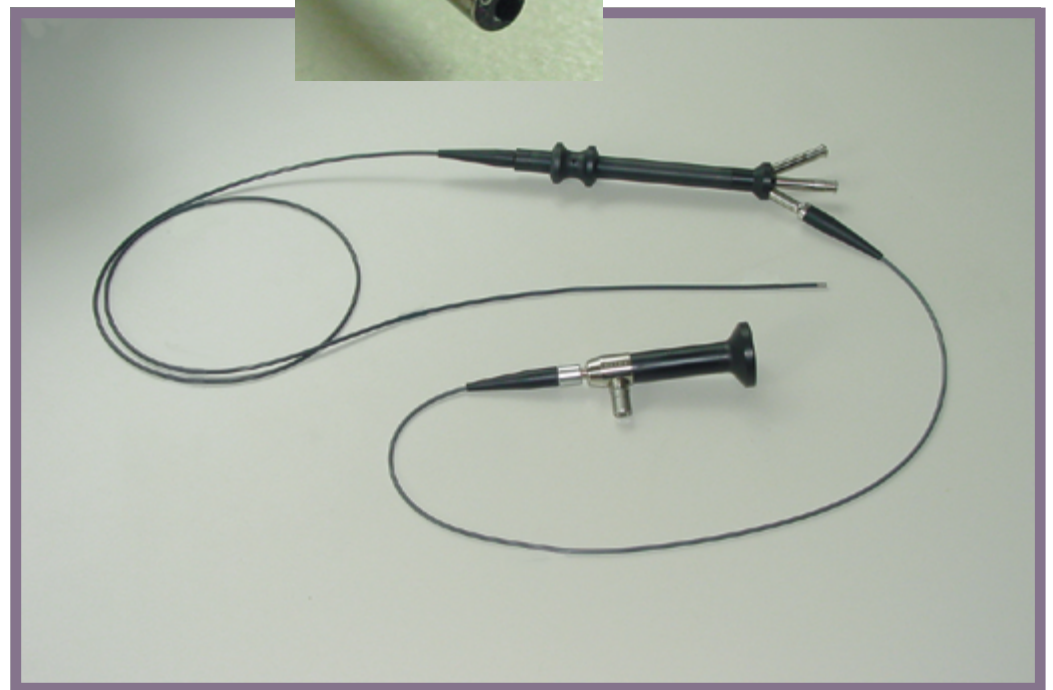
**MI-25/10R30S** Cat micro rhinoscope, curved,  
OD:2,5mm, WL:10cm, 0°,  
high definition fiber optic,  
15000 pixel, semiflexible,  
working channel:1,2mm,  
DIN ocular flexible with standard,  
light cable connectors  
biopsy forceps (B10-351)  
transportation case (K-4435-70)



## Flexible Micro Endoscope



Special Micro-Endoscope with working and irrigation canal for urethra and kidney examination.



**MI-23-500** **Micro flexible endoscope,**  
OD: 2,3mm, WL: 50cm,  
working/irrigation channels: ID:1,2/05mm  
90° deflecting, field of vision: 70°  
image bundle:6000

**B10-710** Biopsy forceps D: 0,9 mm, 70 cm  
Premium Quality (without picture)



# Small Animals

Flexible Bronchoscopes / Video bronchoscopes, wireless



wireless

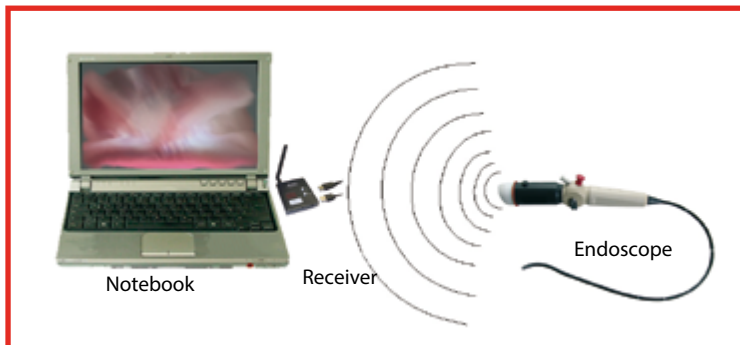
Bronchoscopy

SA

### Flexible LED Video Bronchoscope, wireless with integrated video camera and LED light – wireless video transmission for monitor or PC

- up/down controlled
- integrated sender for wireless video transmission
- 1.8 mm working channel
- perfect video presentation
- resolution 400x400 pixel
- easy handling, quick cleaning and disinfection

Video transmission:



**TXBH5-76V**  
Wireless video bronchoscope, 5,9mm, 70cm  
veterinary in-built video camera with LED, video resolution (400x400)  
– in-built 5,8 GHz sender for wireless video transmission and Li accu  
– 1,8mm working channel  
– 2-way deflecting  
– fully immersible  
Set incl. case, density tester, cleaning brush and 7" receiver/monitor

**TXBH4-54V**  
Wireless video bronchoscope, 3,9mm, 55cm  
as above item TXBH5-76V but with working channel 1,2mm

**TXBH2-36V**  
Wireless video nasopharyngoscope, 2,9mm, 36cm,  
as above item TXBH5-76V  
but without working channel

– Veterinary use only! –

# Bronchoscopes – small animals

for wireless video transmission

## Receiver, Recorder, Monitor:



TXL1-584R  
TV receiver



TXL1-7-NO2  
Receiver Notebook/PC



TXL2-580M  
Receiver/Monitor



TXM7-58R  
Receiver/Monitor/Recorder



TXM10-58N  
Receiver/Monitor

Other monitors on request.

### Receiver for TV/Monitor:

TXL1-584R TV receiver&recorder, 5,8GHz, only, standard, for TX/TD/TX series, video outlet: VHS/FBas, 60g, power supply: 115-240VAC/50/60Hz

### Receiver for Notebooks/PCs:

TXL1-7-NO2 Receiver, 5,8GHz with USB cable for notebooks and PCs, incl. grabber, with USB power supply, \*\*\*installation by the customer

### Monitors with integrated receiver:

TXL2-580M Monitor 5" receiver&recorder, 5,8GHz for TXL/TXE series, video capture to micro SD card, LI battery, incl. arm strap, charger, outlets: video out/FBas 130x90x16mm, 200g

TXM7-58E Monitor 7" with 5,8GHz receiver, DVR for TXL/TXE series, size:195x135x60mm, auto san, mSD card slot, power supply, 350g, video out/FBas, capacity: 2 hours, (without picture)

TXM7-58R Monitor 7" like TXM7-58E but with recorder

TXM10-58N Monitor10" with 5,8GHz receiver, for standard endo cameras & radio endoscopes, 4:3 format, 2,3kg, auto san, 1x video out, HDMI in/out, gimbal brackets, power supply



Dogs, Cats

Flexible LED video endoscopes for examination of the GI tract

SA



**Dr. Fritz**  
[www.dr-fritz.com](http://www.dr-fritz.com)



wireless



LED Gastroscoy  
for small animals

# LED Video Gastroscope

wireless video transmission for monitor or PC.  
Just press a button and the work can start!

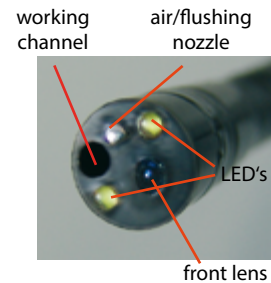


- gastroscope with integrated video camera with LED-Light
- integrated sender for wireless video transmission
- perfect video presentation with the owners
- high resolution
- easy handling, quick cleaning and disinfection
- four way deflecting

## LED Video Gastrosopes Set

**TXHD106-8G Wireless HD gastroscope, 8mm,105cm,Set**  
in-built video camera with LED, working channel:1,8mm, 4-way deflecting, full screen technology, fully immersible, \*\*\*thin gastroscope for small pets  
\*\*\*in-built 5,8GHz sender and accu  
connections: power/video out  
**including:**  
- charger 115-240VAC,50/60Hz  
- density tester  
- cleaning brush  
- cleaning adaptors  
- transportation case  
- biopsy forceps  
- 250ml water bottle with air/water double tube, air pump and holder  
- 10" receiver/monitor/recorder

**TXHD136-9G Wireless HD gastroscope, 9mm,135cm,Set**  
in-built LED light & 5,8GHz sender  
PAL 1080p resolution, working channel: 2,8mm, 4-way deflecting, fully immersible,  
\*\*\*in-built LI ion accu  
**Set complete:** as above (TXE135-9G)



## Overview:

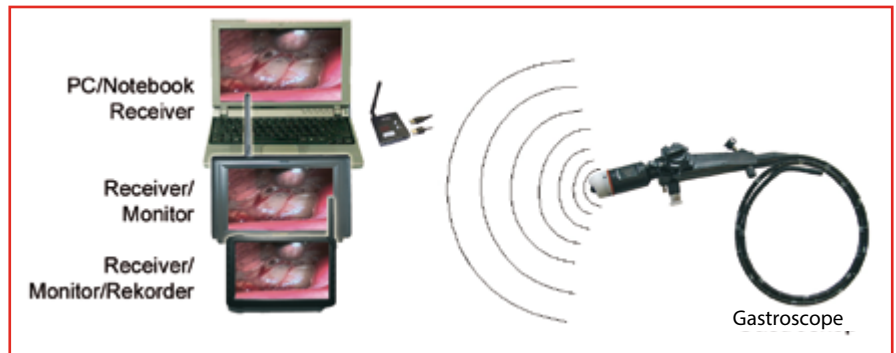
Item No.	Length:	Ø	Working channel:	Resolution
TXHD106-8G	105 cm	8,0 mm	1,8 mm	HD
TXHD136-9G	135 cm	9,0 mm	2,8 mm	HD





# LED Video Gastroscope

Video transmission:



Receiver, Recorder, Monitor:



TXL1-584R  
TV receiver



TXL1-7-NO2  
Receiver Notebook/PC



TXL2-580M  
Receiver/Monitor



TXM7-58R  
Receiver/Monitor/Recorder



TXM10-58N  
Receiver/Monitor



TXM10-58R  
Receiver/Monitor/Recorder

Receiver for TV/Monitor:

TXL1-584R TV receiver&recorder, 5,8GHz, only, standard, for TX/TD/TX series, video outlet: VHS/FBas, 60g, power supply: 115-240VAC/50/60Hz

Receiver for Notebooks/PCs:

TXL1-7-NO2 Receiver, 5,8GHz with USB cable for notebooks and PCs, incl. grabber, with USB power supply,

\*\*\*installation by the customer

Monitors with integrated receiver:

TXL2-580M Monitor 5" receiver&recorder, 5,8GHz for TXL/TXE series, video capture to micro SD card, LI battery, incl. arm strap, charger, outlets: video out/FBas 130x90x16mm, 200g

TXM7-58E Monitor 7" with 5,8GHz receiver, DVR for TXL/TXE series, size:195x135x60mm, auto san, mSD card slot, power supply, 350g, video out/FBas, capacity: 2 hours, (without picture)

TXM7-58R Monitor 7" like TXM7-58E but with recorder

TXM10-58N Monitor10" with 5,8GHz receiver, for standard endo cameras & radio endoscopes, 4:3 format, 2,3kg, auto san, 1x video out, HDMI in/out, gimbal brackets, power supply

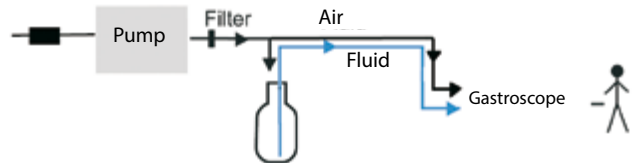
TXM10-58R Monitor10" with 5,8GHz receiver, DVR for TXL/TXE series, size: 260x180x40 mm, auto san, rech. battery charger, 160g, video out/FBas

# LED Video Gastrosopes

## Recommended accessories

### Small air pump

for lens cleaning and inflation



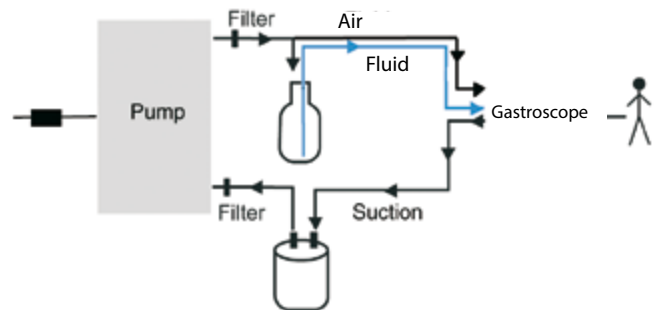
TW4-249

Air pump and holder, for air/water supply in LED gastrosopes, consisting of: pump TW4-240 and holder TW4-250H

### Suction-/irrigation pump – the perfect combination for the small and large animal practice –

for lens cleaning, inflation and suction

- low noise and soft pressure system
- easy handling
- separate combined use of suction and air pressure



H140-3S

Suction & irrigation pump, soft system, complete with 2 bottles (suction/ water) 1 litre each, tubing set autoclavable, vacuum: 3 L / min, max: 0,4 bar pressure: 4 L / min, max.0,5 bar (400mmHg) incl. transformer 115- 230VAC; 50/60Hz

AR-10-922

Sterile filter for CO<sup>2</sup> infusor and air with ID: 4-6mm, disposable, 50pcs/boxes



# LED-Video-Gastroskope

## Accessories



EF-18 Density tester comp. to flexible video gastro- / colonoscopes,



RH99-56 Cap for instrument channel, bag with 5 pcs



F28-1709 Cleaning brush, flexible, 160cm for working channels 2,2-3mm



TW4-250 Air/water bottle, 250ml for LED video-broncho/ gastroscopes, autoclavable

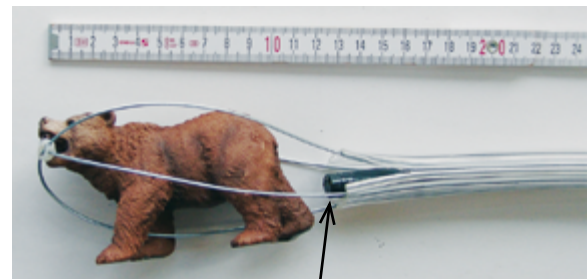


TW4-133 Air/water twin tube, 2,6m, complete with couplers for TW/TX series



Brugman's foreign body catcher\*  
for removing of foreign bodies  
compatible to gastroscopes

# New!



insert gastroscope



gastroscope

FK-15-90 Brugman's foreign body catcher, 90 cm, ID:15 mm, AD:24 cm; 1 pcs, single use,

FK-15-135 Brugman's foreign body catcher, 135 cm, ID:20 mm, AD:30 cm; 1 pcs, single use,

\*\*\*no return shipment

compatible to gastroscopes  
different manufacturers with OD <13mm

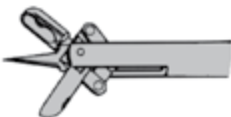
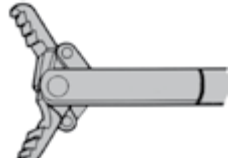





\* patent pending

- Attention: disposable product - return shipment not accepted


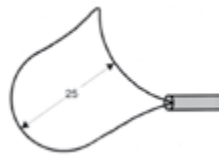
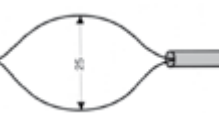

# LED Video Gastrosopes

## Accessories:

### Biopsy/grasping forceps – reusable/disposable

	article no.		Ø (mm)	length (cm)
	B22-16011	Biopsy forceps with spike	2,2	160
	B22-22011	Biopsy forceps with spike	2,2	220
	B18-16011	Biopsy forceps with spike	1,8	160
	F22-16041	Grasping forceps	2,2	160
	F22-22041	Grasping forceps	2,2	220
	F22-16040	Grasping forceps	2,2	160
	F22-22040	Grasping forceps	2,2	220
	F23-16042	Grasping forceps	2,3	160
	F23-22042	Grasping forceps	2,3	220
	FK23-1635	Basket, 6 wires	2,2/45x60mm	160
	FK23-1637	Basket, 6 wires	2,2/50x100mm	160
	FK23-2035	Basket, 6 wires	2,3/50x60mm	220
	X-46-00	Foreign body protection cap for gastrosopes, Ø 9-11 mm		
	B23-180E	Disposable biopsy forceps	2,3	180
	B23-230E	Disposable biopsy forceps y-sterile, box with 10 pcs	2,3	230

### Accessories for high frequency surgery

	HF22-1601	Suction-koagulation electrode, flexible monopolar, Luer-Lock connector, 2,2 mm, 165 cm
	HF22-2301	Suction-koagulation electrode, flexible monopolar, Luer-Lock connector, 2,2 mm, 230 cm
	SL23-1610	Polypectomy snare, complete with tube, OD: 2,2 mm, WL: 165 cm, asymmetric snare, 2,5 cm wide, without handle,
	SL23-2310	Polypectomy snare, complete with tube, OD: 2,2 mm, WL: 220 cm, asymmetric snare, 2,5 cm wide, without handle,
	SL23-1612	Polypectomy snare, complete with tube, OD: 2,5 mm, WL: 165 cm, symmetric snare, 3,5 cm wide, without handle,
	SL23-2312	Polypectomy snare, complete with tube, OD: 2,5 mm, WL: 220 cm, symmetric snare, 3,5 cm wide, without handle,
	HS11-1200	Handle for Polypectomy /high frequency snares, standard connections, autoclavable
	HF-301-ER	High frequency connecting cord, 3 m, monopolar, comp. to Erbe units (4mm type)

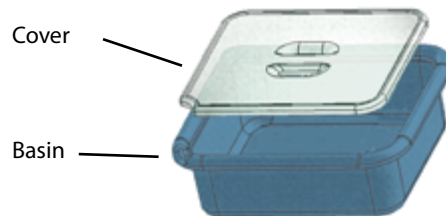
See also in catalog section HF-Devices page 165

# LED Video Gastrosopes

## Recommended accessories

### Transportation & storage basin for flexible endoscopes

- stackable
- usefull in drawer cabinets
- with airing



DE-17-44-S Transportation & storage basin for flex. endoscopes, 50x44x16 cm, set with cover

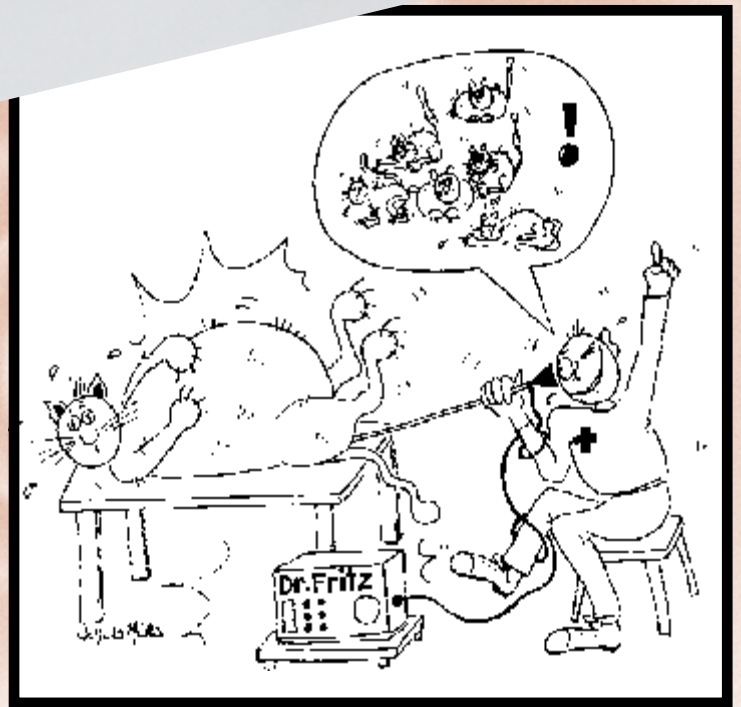
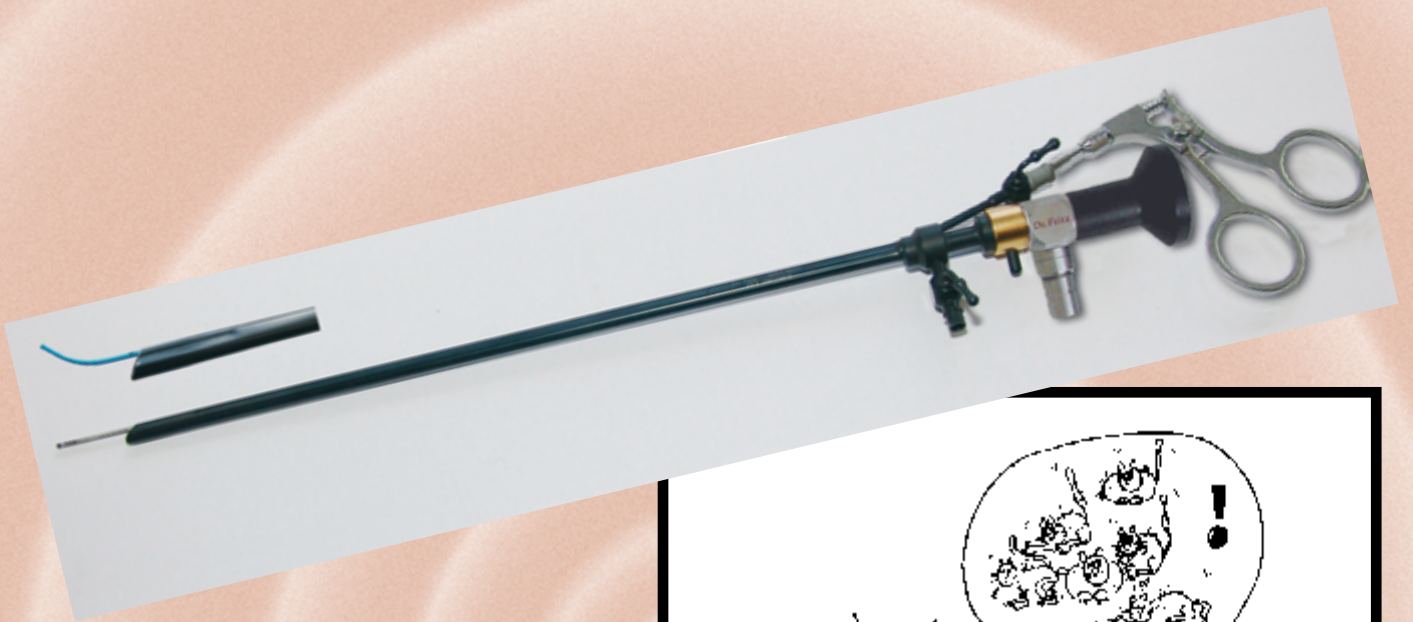
consisting of:  
basin (DE-17-44)  
cover transparent (DE-17-41)

See also instrument washer on page 180-183



# Dogs and Cats

Equipment for gynecological examination



Gynecology, Vaginoscopy and AI  
acc. to Blendering

### Set with 2,7 mm telescope, with sheath 4x6 mm for small patients, WL: 15 cm

Die neuen Sets zur vaginoskopischen Video-Untersuchung nach Blendinger machen eine Standard-Untersuchung vom kleinen bis zum großen Patienten mit nur einem Instrument möglich. Das Endoskop kann passend zu herkömmlichen endoskopischen Videokameras gewählt werden oder besser noch an unser Video-Compact-System mit TWIN-Anschluss angeschlossen werden, bei dem Licht und Optik-Ebene in einem Kabel verlaufen, was die Einfachheit deutlich erhöht. Endoskope und Schäfte können jederzeit auch für die Zystoskopie eingesetzt werden.

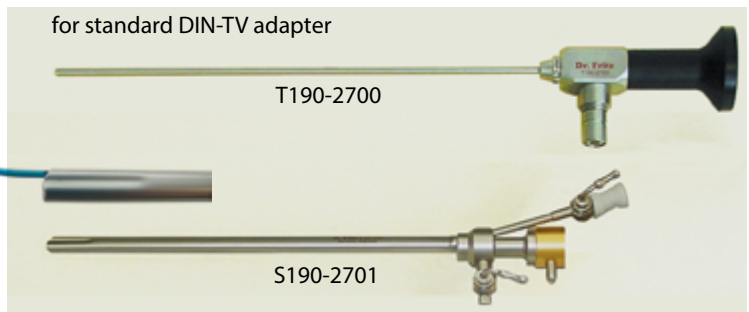


- detachable handle
- bright and light intensive image

### Large image telescope, 2,7 mm

T190-2700  
Wide angle telescope, 0°, large image technology, OD: 2,7mm, WL: 19cm, standard light cable connectors

See also Video-Compact-System II, page 17

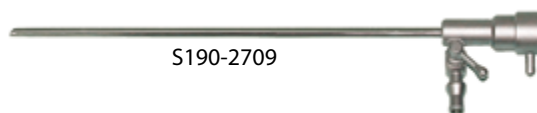


### Examination and working sheath

S190-2701  
Examination & working sheath for 2,7mm telescopes, 2,2mm instrument channel, LL(fem) connectors for irrigation, colour code: gold special design for rhinoscopy, bronchoscopy, otoscopy and cysto-/vaginoscopy

S190-D  
Trocar only, blunt, for S190-270 series (without picture)

S190-2709  
Examination sheath, OD:3,8 mm, WL:16 cm, stopcock, comp. with 2,7 mm telescopes, 0°



### LED accu light handle, high power, 3,7V

LED-8-35 LED light handle, accu power set, consisting of:  
handle only (LED-8-35G),  
charger (LED-8-35LA)  
Li accu block 3,7Vx 1Ah (LED-8-35AC)

– see section light sources

- fully immersible
- compatible to Dr. Fritz, Wolf





## Gynecology, Vaginoscopy and AI

### Rigid endoscopes for medium and large dogs

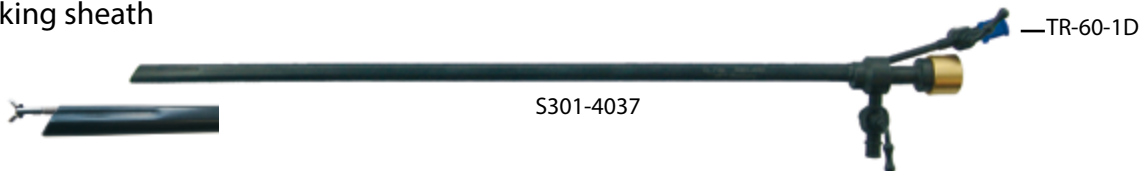
#### Set with 4 mm telescope, with sheath 5x7 mm

for medium and large dogs

WL 30 cm



#### Working sheath



- |           |  |
|-----------|--|
| T301-4030 | Wide angle telescope, 30°, OD:4 mm, WL:30 cm, 115° field of vision, standard light cable connectors, autoclavable  |
| S301-4034 | „Blender“ vaginoscope sheath I, for video-vaginoscopy and urology, OD: 5 mm, (15 Chrr/FR), WL:27 cm, comp.with telescope T301-4030, inflation stopcock, for small and large dogs |
| S301-4037 | „Blender“vagoscope sheath II, OD: 7-5 mm (17 Chrr/Fr) working sheath for vaginoscopy and urology, WL: 25 cm, comp.with T301-4030, inflation stopcock, 2 mm working channel,      |

#### Video Vaginoscope with sheath, wireless

Working channel



LED light



- |           |   |
|-----------|---|
| TV27-5SET | Video vaginoscope, 0°, 5,6/12mm, 28cm, set in-built LED light and radio transmission, used as laparoscope/OR-laparoscope or video vaginoscope consisting of:<br>– Video vaginoscope (TV27-5S)<br>– Outer sheath 12 mm (STV27-51) with working channel 5,6 mm, WL: 27 cm<br>– 10" Receiver monitor (TXM10-58N)<br>– USB recorder (PC-97-HDE) |
|-----------|---|

# Gynecology, Vaginoscopy and AI

Semiflexible telescopes – intrauterine Insemination - TCI

## Gynecology, Vaginoscopy, TCI and AI

Set Universal for all dog sizes – intrauterine Insemination – acc. to Blendinger

SA

## Accessories:



F11-69 Special catheter 4 Fr., 69 cm, selectip UK, olive end, angled tip, y-sterile, Juka 62410110



F12-69 Special catheter 5 Fr., 69 cm, selectip UK, olive end, angled tip, y-sterile, Juka 62410210



F16-50 Special catheter OD:1,6 mm, 50 cm, y-sterile



B18-33 Flexible biopsy forceps, OD:2 mm, 35 cm comp.to rhinoscope and vaginoscope, premium quality



LL-1273H Three way stopcock, disposable, non sterile, Pg with 10 pcs,



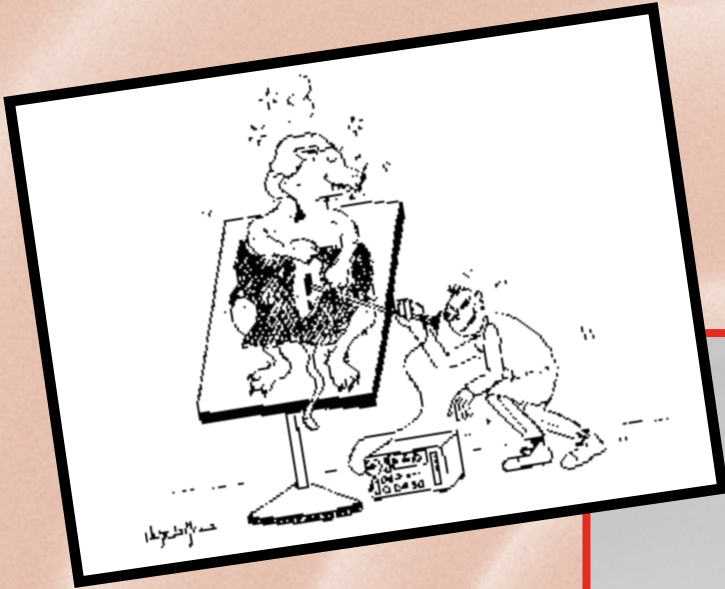
LL-1271H One way stopcock, disposable, non sterile, Pg with 10 pcs



TR-60-1D Sealing cap small, 1mm opening, for 981-VK-69/ S190-2701, 5 pcs.

K-3325-62 Transportation case for vaginoscopy (without picture)

– sterile items, no refund possible –



Laparoscopy/Thoracoscopy  
in small animals

# Laparoscopy / Thoracoscopy

Telescopes for diagnostic and surgery

**New!**

## Video Laparoscope, wireless

- integrated sender 5,8GHz for wireless video transmission
- high resolution
- easy handling, quick cleaning and disinfection
- fully immersible
- to be used w/o working channel



**TV27-5SE** Video laparoscope, 0°, 5,5mm, 28cm cordless video endoscope, in-built LED light and radio transmission, fully immersible consisting of:  
 – Radio laparoscope (TV27-5S)  
 – Recorder-monitor 7" (TXM7-58R)



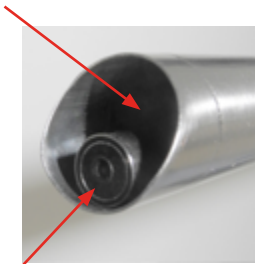
Power adapter

## Video transmission:



## Video Laparoscope with sheath

Working channel



LED light



**TV27-5SET** Radio videoscope, 0°, 5,6/12mm, 28cm, Set in-built LED light and radio transmission, used as laparoscope/OR-laparoscope or video vaginoscope consisting of:  
 – Radio videoscope (TV27-5S)  
 – Outer sheath 12 mm (STV27-51) with working channel 5,6 mm, WL: 27 cm  
 – 10" Receiver monitor (TXM10-58N)  
 – USB recorder (PC-97-HDE)

# Laparoscopy / Thoracoscopy

Telescopes for diagnostic and surgery  
(immersible - autoclavable)

## Standard version

- patented large image optical system
- extremely high definition image
- large field of vision
- full screen image



T281-5000	Wide angle telescope, 0°, OD: 5,5 mm, WL: 29 cm, standard light cable connectors, autoclavable
T281-5030	Wide angle telescope, 30°, OD: 5,5 mm, WL: 29 cm, standard light cable connectors, autoclavable
T291-1000	Wide angle telescope, 0°, OD:10 mm, WL: 30 cm, standard light cable connectors, autoclavable

In addition to standard endoscopes for laparoscopy offers additionally Dr. Fritz telescopes for small animal research programs

# Laparoscopy / Thoracoscopy

## Trocar cannulas with magnetic valve, safety trocars

Trocar cannulas are designed with different types of valves to reduce or to avoid CO<sup>2</sup> loss when changing instruments and telescope during laparoscopy and thoracoscopy. Our reusable and patented magnetic valve trocar system has several advantages compared to other valve types. First of all they are light in weight and because of the valve construction, the insertion of instruments and scopes will pass smoothly through with out scratching or touching the front lens like in a ball system or in a so called automatic valve system. In addition there is nearly no gas loss even when changing instruments. There are no mechanical parts to clean inside except the magnetic flap itself which is a great help to your staff.

### Inner diameter 5,5 mm (for standard 5 mm instruments)

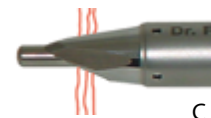
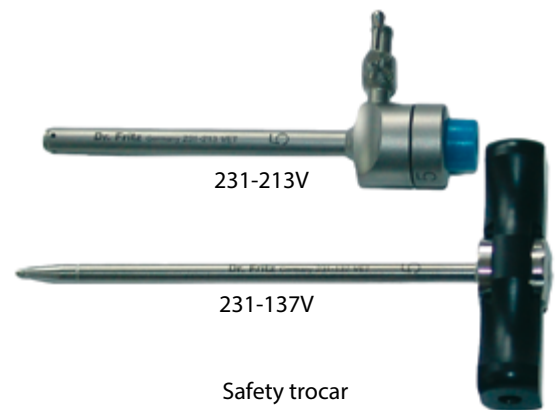
- light in weight
- ideal for small animals

231-213V Cannula only, magnetic valve, ID:5,5mm, WL:7cm, stainless steel, stopcock, 40g

231-212V Cannula only, magnetic valve, ID:5,5mm, WL:7cm, 30g

231-137V Safety trocar only, comp. to cannulas ID:5,5mm, WL:7cm, fully dismantable with cork screw handles

231-105V Trocar only, with sharp tip compatible to ID: 5,5mm, WL: 7cm (without pictures)



tissue pressure exposes the sharp tip

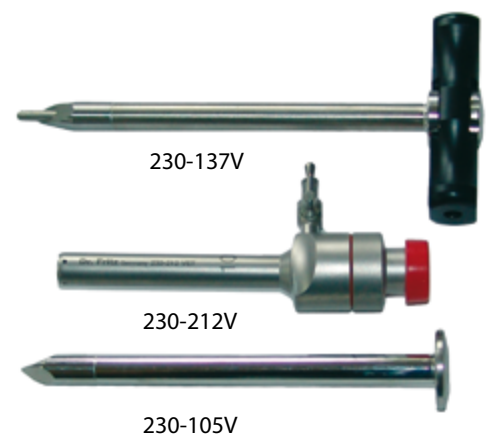
### Inner diameter 10 mm (for telescopes and 10 mm instruments)

230-212V Cannula only, magnetic valve, ID:10mm WL:7cm, inflation stopcock, 55g

230-213V Cannula only, magnetic valve, ID:10 mm WL:7cm, 45g

230-137V Safety trocar only, compatible to cannulas with ID:10mm, WL:7cm, fully dismantable cork screw handles

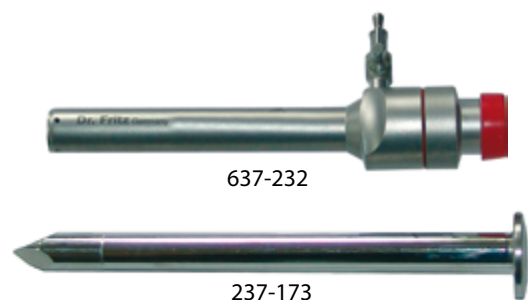
230-105V Trocar only with pyramidal tip for trocars cannulas ID:10mm, WL:7cm



### Inner diameter 13 mm (for telescopes and 13 mm instruments)

637-232 Cannula only, magnetic valve, ID:13 mm, WL:10 cm, inflation stopcock, Trinox

237-173 Trocar only with pyramidal tip for trocars cannulas ID: 13 mm, WL: 10 cm



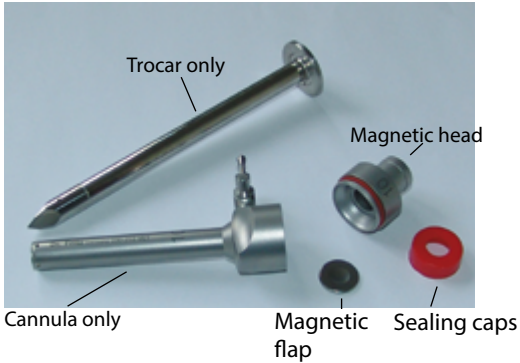


# Laparoscopy / Thoracoscopy

## Accessories, Trocar disposable



230-505 Reducer adapter for trocars from 10 to 5,5 mm



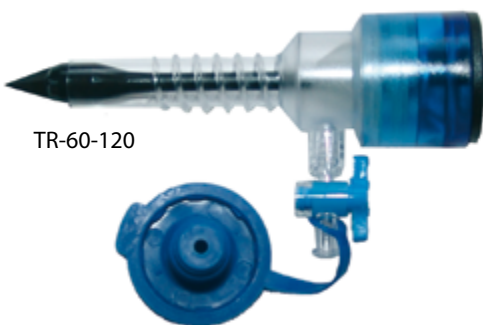
231-211 Sealing caps for trocars and reducer adapters, size 5,5mm, p. with 10 pcs

230-211 Sealing caps, red, for trocars & reducer adapters, size 10/11/12mm, p. with 10 pcs

231-215 Magnetic valve flap, for trocar cannulas size 5,5mm, p. with 2 pcs

230-215 Magnetic valve flap for trocar cannulas size 8/10/11/12/13mm, p. with 2 pcs

## Trocar disposable 5 mm and 12 mm



TR-59-53 Trocar disposable, ID:5 mm,WL:6 cm inflation stopcock, with trocar only box with 25 pcs (without picture)

TR-60-120 Trocar disposable, ID:12 mm,WL:6 cm complete with reducer 12-8 mm and 5 mm box with 25 pcs

see also products of daily use page 187

# Laparoscopy / Thoracoscopy

## Palpation and Puncture

### Laparoscopy first puncture needle



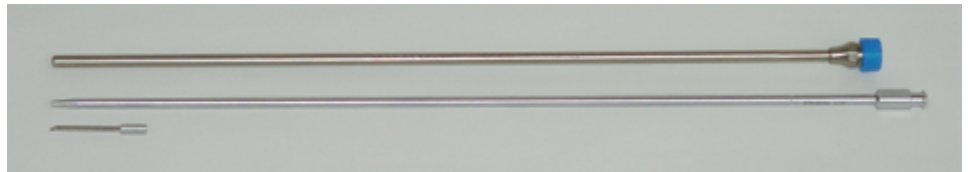
L-19-100 Veress needle, D: 2 mm, 10 cm, LL(f)

### Injection cannula



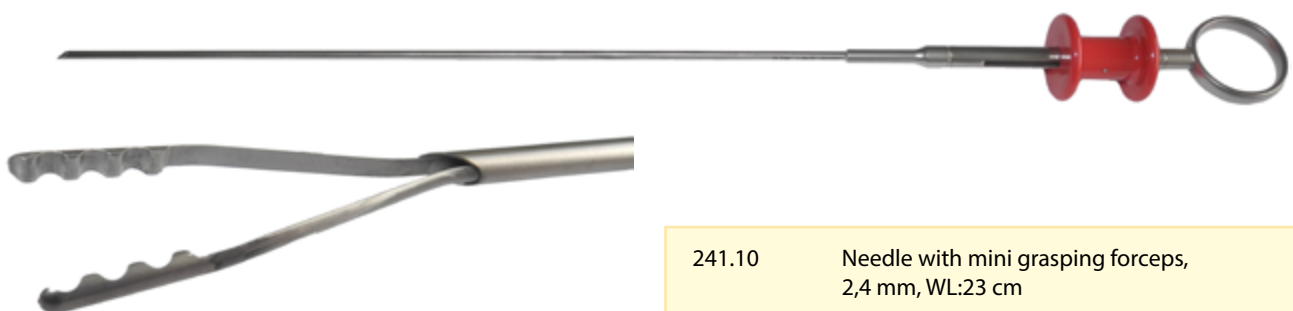
- L-210 Injection cannula, thin, size: 1x26 mm, 2 pcs
- L-218 Injection cannula, large, size: 1,9x26 mm, 2 pcs
- L-218R Injection cannula, rounded, size: 2x28 mm, 2 pcs

### Injection system and probe



- L-33-210 Injection system and probe, 5 mm, 33 cm, protected interchangeable needle with outer tube, consisting of:
  - L-33 inside tube, LL, connector
  - L-33-2 outer tube/probe
  - L-210 needle, 1pc (1x26mm)

### Mini instrument for two portal technique in laparoscopy



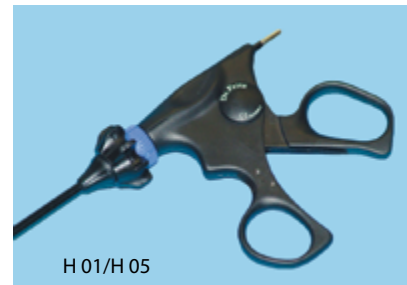
241.10 Needle with mini grasping forceps, 2,4 mm, WL:23 cm

## Handles

plastic or standard handles  
without ratchet  
or with internal ratchet  
HF connector



H 11



H 01/H 05

- easily dismantlable
- reusable
- with HF connector
- long life span - one system
- compatible to 5 mm trocar cannulas

## Tubular sheaths

- 5 mm diameter
- different working lengths
- rotatable through 360°, or fixed
- insulated



Each jaw insert and outer sheath can be used with any type of handle.

## Complete instruments, fully dismantlable

### Scissors



531.02H05V Mini-Metzenbaum scissors, 5mm, 33cm curved left, insulated, dismantlable, rotatable, consisting of: jaws insert (53M02), sheath (53R1) handle (H05) , color code: white



531.04H05V Hook scissors, 5mm, 33cm, single action jaws, insulated, rotatable, dismantlable, high quality, consisting of: jaws insert (53M04), sheath (53 R 1) handle (H05), color code:white

### Biopsy forceps



531.60H01V Biopsy forceps, 5mm, 33cm, double action jaws, dismantlable, consisting of: jaws insert (53M60), sheath (53R1) handle (H01), color code:black

Above mentioned instruments are used most frequently!  
For additional types see also our special brochure

## Universal dissecting forceps



531.40H01V Dissecting forceps, (Maryland), turned, 5mm, 33cm, insulated, dismantable, rotatable, consisting of: jaws insert (53 M 40), sheath (53 R 1) handle (H 01) color code:black



531.23H11V Atraumatic grasper, curved, 5mm, 33cm insulated, rotatable, dismantable, inside ratchet, consisting of: jaws insert (53 M 23), sheath (53 R 1) handle (H 11, HF-connector), color code:black



531.22H11V Grasping forceps, universal use, 5mm, 33cm, insulated, dismantable, rotatable, inside ratchet, consisting of: jaws insert (53 M 22), sheath (53 R 1) handle (H 11, HF-connector), color code:black



531.27H11V Babcock grasping forceps, 5mm, 33cm, insulated, dismantable, rotatable, inside ratchet, consisting of: jaws insert (53 M 27), sheath (53 R 1) handle (H 11, HF-connector), color code:black



531.36H11V Bowel grasping forceps, 5mm, 33cm, insulated, dismantable, rotatable, inside ratchet, consisting of: jaws insert (53 M 36), sheath (53 R 1) handle (H 11), color code:black



536.30H11V Claw grasping forceps, 5mm, 33cm, fixed tube, inside ratchet, consisting of: jaws insert (53 M 30), sheath (53 R 1) handle (H 11)

## New! – Retractor



L-19-335 Retractor arm, straight, 5mm, 35cm pear shaped, autoclavable



## Laparoscopy / Thoracoscopy

### Palpation

Knot tier and cutter



Easy handling, easy to tighten, additional cutting

L-19-534 Knot tier, standard version, 5 mm, 29 cm easy filling, suture size up to 1 metric

## Needle holders

- Easy Clean System
- Needle self positioning



L-19-562V Needle holder, left turned, 5mm, 22cm axial handle, LL connector

L-19-563V Needle holder, angled upwards, 5mm, 22cm axial handle, LL cleaning connector

- needle self positioning jaw

other working length see page 123

# Special device – Ultrasonic Vessel sealing

## Ultrasonic surgery system

– Sealing and cutting in one cut reduced heat for minimally invasive and open surgery

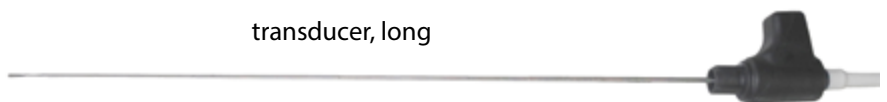
- safe and uncomplicated handling
- transducer reusable, autoclavable
- economically priced
- high & short seal modus



U2-SET-50 Ultrasonic sealing system, Set 50cm sealing and cutting for minimally invasive and open surgery  
Set complete consisting of:  
1x generator (U2-LO-GE)  
1x sound head (U2-5SO)  
2x punch (U2-5SE) 50cm

U2-SET-30 Ultrasonic sealing system, Set, same as set above but with 30cm instruments  
1x sound head (U2-3SO)  
2x punch (U2-3SE), 30cm

transducer, long

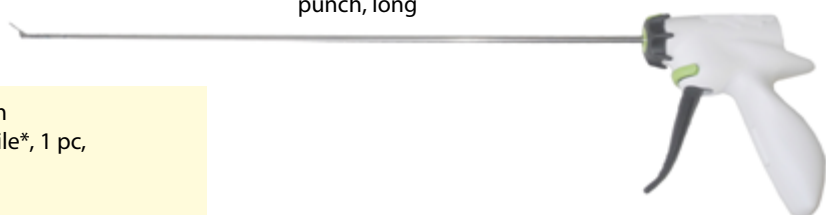


### Accessories:

U2-5SO Ultrasonic transducer 500mm, comp. to U2-LO-GE, cable 3m, autoclavable, 1 pcs, max use: 250min

U2-3SO Ultrasonic transducer 300mm, comp. to U2-LO-GE, cable 3m, autoclavable, 1 pcs, max use: 250min

punch, long



U2-5SE Ultrasonic sealing punch, 500mm comp.to transducer U2-5SO, sterile\*, 1 pc, \*no return shipment possible

U2-3SE Ultrasonic sealing punch, 300mm comp.to transducer U2-3SO, sterile\*, 1 pc, \*no return shipment possible

\* foot switch and short instruments on request

# Special devices – High Frequency Surgery

## High frequency unit, High speed, Typ Atom

High frequency unit, High speed - with vessel sealing technique. Parallel usage of all outputs.

• Adapter for instruments other manufacturers on request

- uncomplicated use
- up to date safety regulation
- vessel sealing with confirmation signal
- compatible to all instruments on the market
- program via Touch Screen
- SDS self detecting system

Vessel Sealing



HF-401-TH HF/Radio frequency unit, High End Thermo Stapling (vessel sealing), touch-screen programmable, latest mono & bipolar technique SDS - self detecting system incl. high speed vessel sealing delivery without accessories, 400W, 230VAC, 50/60Hz

### Specifications:

Monopolar	Cutting	400 W
	Coagulation	200 W
	Soft/Forced	+ / +
Bipolar	Cutting	400 W
	Coagulation	200 W
	Auto Start/Stop	+ / +
Bipolar	Thermo-Stapling	+ 300 W
	Thermo sealing	+
	Auto Stop	+
Weight	7 kg	
max. power		420 W

• Accessories see page 169-174

## Laparoscopy / Thoracoscopy

Conventional set without camera system and light source



SET-K-LA-B Laparoscopy set, small animals, conventional for standard 2 portal technique complete, but without video camera and light source,

consisting of:

- wide angle telescope 30°, D: 5mm
- safety trocar compl., ID: 5,5mm
- safety trocar compl., ID: 10mm
- trocar reducer 10/5 mm
- Veress needle, 10cm, D: 2mm, LL(f)
- grasping forceps, 5mm,
- Metzenbaum scissors, 5mm
- preparation forceps, 5mm
- CO<sub>2</sub> Inflator, electronically monitored 20L
- HF/Radio frequency unit, High End Thermo Stapling (vessel sealing), 400W, 230VAC, 50/60Hz (without picture)

Option:

U-500-SET Ultrasonic Surgical Punch System, Set sealing and cutting in one go without heat



## Laparoscopy / Thoracoscopy

Complete set with video laparoscope – wireless



SET-K-LA-VI

Laparoscopy set „video“, small animals, w/o HF/UL for 1&2 portal technique complete with wireless video laparoscope, receiver/monitor/recorder

consisting of:

- Video laparoscope, 0°, 5mm, 28cm with integrated LED light and radio transmission
- 7" receiver/monitor/recorder (without picture)
- Safety trocar compl. 5,5mm
- Safety trocar compl. 13mm
- trocar reducer 13/5mm
- Veress needle, 10cm, D: 2mm, LL(f)
- mini grasper, 2,5mm
- grasping forceps atraum., (Maryland), 5mm, 33cm,
- CO<sub>2</sub> Inflator, electronically monitored 20L

Option:

Ultrasonic Surgical Punch System, Set sealing and cutting in one go without heat



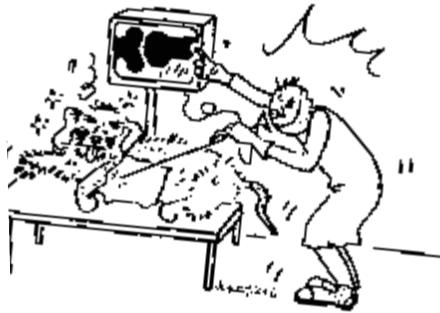
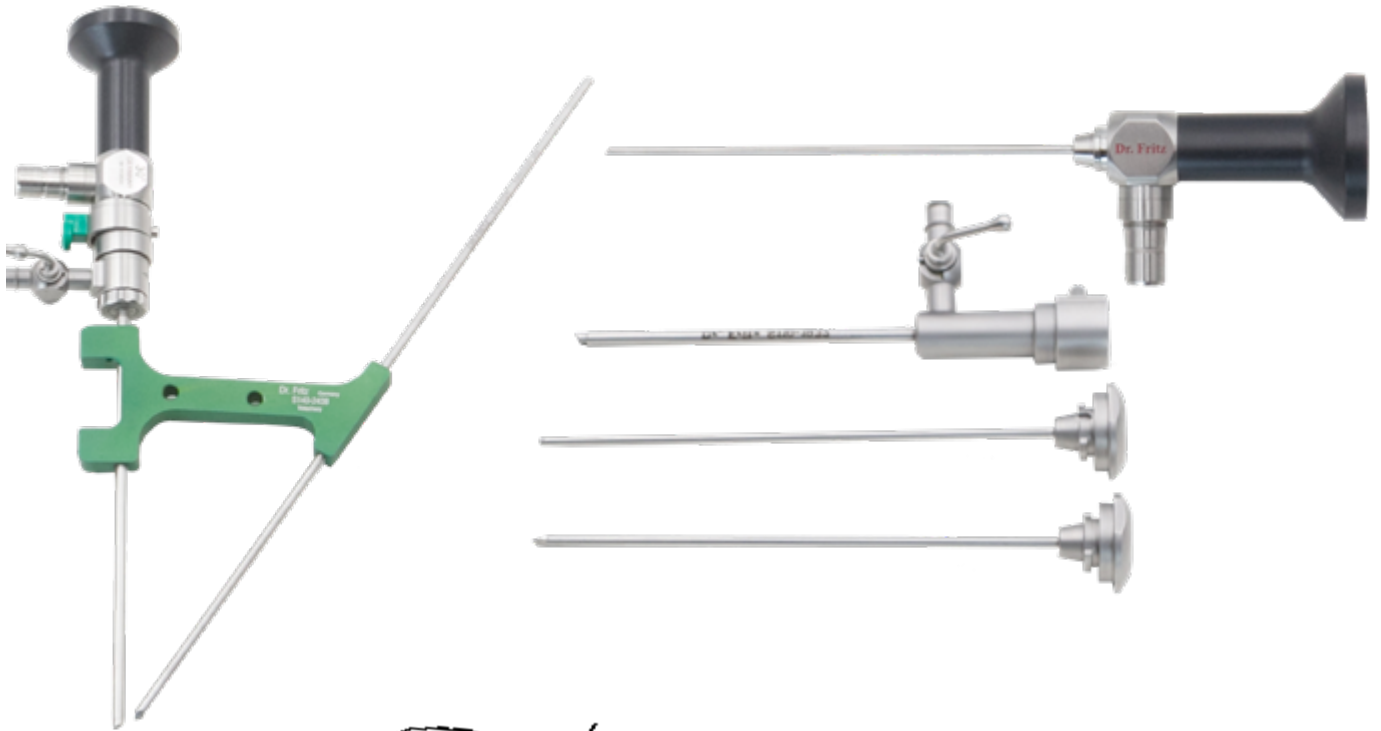




# Dogs, Cats

## Arthroscopic equipment and accessories

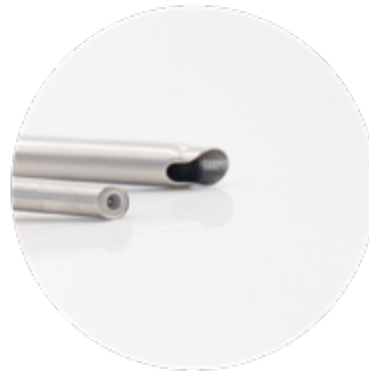
SA



### Canine and Feline Arthroscopy

## Arthroscopy Telescopes – 1,9 mm –

On monitors "large image telescopes" are filling nearly the full screen. Exposure control of endoscopic video cameras is much easier, even with a 1,9 mm diameter telescope!



- Standard DIN ocular
- autoclavable / fully immersible
- high resolution
- standard light cable adaptors
- large image telescopes

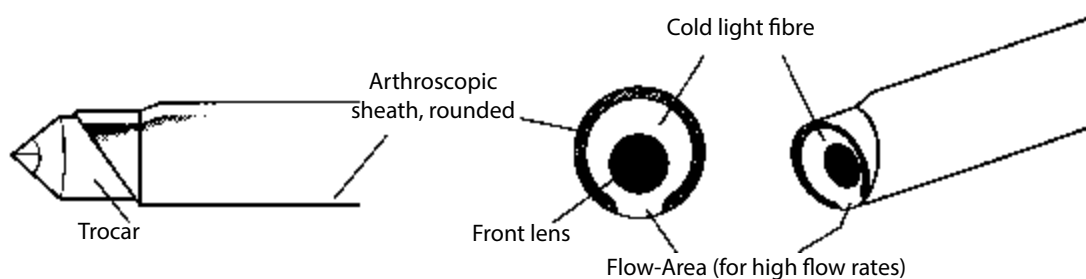
**Needle Arthroscope, 1,9 mm with arthroscopic sheath (2,8 mm)**  
for small dogs and small joints



- |           |   |
|-----------|---|
| T111-1930 | Wide angle telescope, 30°, OD: 1,9/2,1mm, WL: 11cm, large image technology, stand. light cable connectors, autoclavable |
| S110-1932 | Sheath for arthroscopy, OD: 2,8/3mm, WL: 8cm, compatible with T111-1930, stopcock, including blunt & sharp trocar       |
|           | ***high flow version***   |

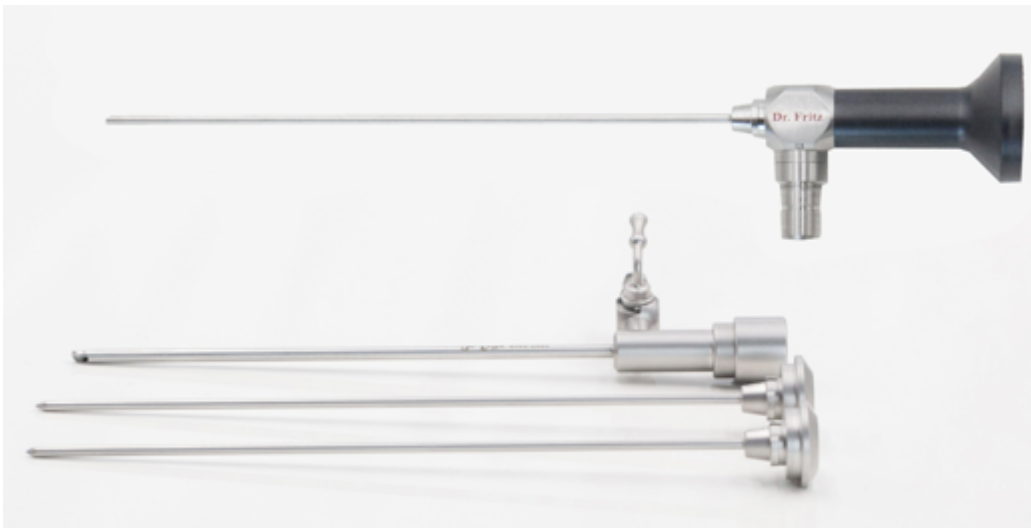
Our arthroscopy sheaths are delivery including blunt and sharp trocars!

- Ask for telescopes 4 mm in case of larger knee joints



## Arthroscopy Telescopes – 2,7 mm –

Standard Arthroscope, 2,7 mm with arthroscopic sheath  
for elbow, shoulder and knee joint



- T141-2730 Wide angle telescope, 30°, OD: 2,7mm, WL: 14cm, large image technology, standard light cable connectors, autoclavable
- S140-2731 Sheath for arthroscopy, OD: 3,8mm, WL: 12cm, compatible with T141-2730, stopcock, including blunt & sharp trocar
- \*\*\*high flow version\*\*\*

### Accessories:



- S110-1935 Protection and transportation sheath for small telescopes, 12cm, autoclavable
- DE-10-65 Lense polish for telescopes, 5g (without picture)

# Arthroscopy

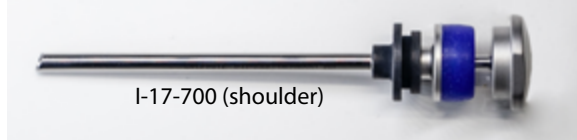
## Irrigation and Working Cannulas, Trocar Changing System acc. to VAN BREE



I-17-024



I-17-028



I-17-700 (shoulder)



I-17-500 (elbow)



I-17-002

The trocar changing system acc. to VAN BREE allows the specific exchange of different working cannulas. Beginning with the smallest diameter, the surgeon can always change to a bigger diameter by using the changing rods. According to the different joints a so called "elbow set" (working length 3,5-5 cm) and a "shoulder set" (7-7,5 cm) is differentiated. In addition it is possible to change the working portal with the telescope portal using the changing rod. The color code system allows easy size differentiation.

### Complete Set

I-17-755 Working cannula set "shoulder and elbow" acc. to van BREE

consisting of:

- I-17-024 Changing rod for 2,3 mm working cannulas, round, pointed, color code: gold
- I-17-028 Changing & puncture rod, for 2,9 mm working cannulas & shoulder puncture system, color code: metal
- I-17-524 Working cannula, ID: 2,3 mm, WL: 5,5 cm, incl. sharp obturator, color code: gold
- I-17-528 Working cannula, only, ID: 2,9 mm, WL: 4,8 cm color code: metal
- I-17-535 Working cannula, only, ID: 3,5 mm, WL: 3,5 cm color code: black
- I-17-728 Working cannula, ID: 2,9 mm, WL: 7,5 cm, incl. sharp obturator, color code: metal
- I-17-735 Working cannula, only, ID: 3,5 mm, WL: 6,8 cm, color code: black
- I-17-002 Sealing caps for small trocar cannulas cap opening, round, D:2 mm, 5 pcs

Single sets:

- I-17-500 Working cannula set "elbow" acc. to van Bree, consist. of I-17-524, I-17-528, I-17-535, I-17-024 and I-17-002
- I-17-700 Working cannula set "shoulder" acc. to van Bree, consist. of I-17-728, I-17-735, I-17-028 and I-17-002

Special version:

- I-17-535-G Working cannula with thread, ID: 3,5 mm, WL: 3 cm, comp. to trocar changing system acc. to VAN BREE
- I-17-735-G Working cannula with thread, ID: 3,5 mm, WL: 6,8 cm, comp. to trocar changing system acc. to VAN BREE



I-17-524



I-17-535-G



I-17-735-G

Dr. Fritz hand instruments are suitable to all fine working cannulas. Inner diameter and working lengths of the instruments are specially designed for small animal arthroscopy.



# Arthroscopy

## 2,7 mm Hand instruments



Hand instruments with colour coding are easy to recognize and perfectly to use in small and in large joints according to the patient sizes.



- easy handling
- ergonomic design
- for universal use
- suitable for Dr. Fritz working cannulas



enlarged



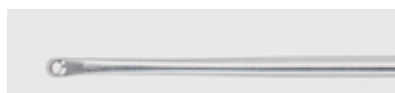
AR-17-03S Bajonett knife 2,7mm, silicon handle, autoclavable, color code



AR-17-05S Banana knife, 2,7mm, silicon handle, autoclavable, color code



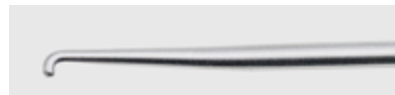
AR-17-06S Curette, small 2,7mm, silicon handle, autoclavable, color code



AR-17-07S Ring curette, 2,7mm, silicon handle, autoclavable, color code



AR-17-11S Smilie knife, 2,7mm, silicon handle, autoclavable, color code



AR-17-09S Hook probe, 2,2mm, silicon handle, autoclavable, color code



AR-17-12S Mikro picking knife, acc. to Dr. Beale, 2,7mm, silicon handle, autoclavable, color code

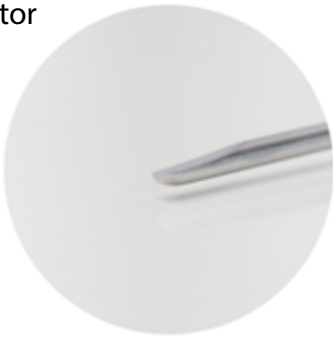


AR-17-19S Hook knife, 2,7mm, Silicon handle autoclavable, color code

# Arthroscopy

## 2,7 mm Hand instruments

### Elevator

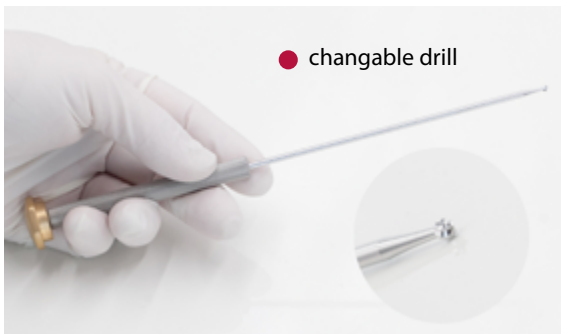


AR-17-13

Special elevator, 2,7mm, with handle, color code:metal

### Milling Drill acc. to VAN RYSSSEN & VAN BREE

- The latest development allows cartilage and bone curettage even through the smallest working cannula -



● changable drill



I-17-822

Milling drill for arthroscopy, acc.to van RYSSSEN, OD: 2,2mm; WL: 12cm, with rotating handpiece, long lasting drill steel, dismantable, consisting of:  
I-17-820 handpiece  
I-17-821 milling drill

### Chisel



AR-17-22 Coronoid chisel acc. to Meyer-Lindenberg  
3/4 mm, 20 cm

### Instruments for high frequency



### Mono-/ Unipolar

HF/RF cutting electrodes, the electric knife

HF-200-45

High frequency cutting electrode for arthroscopy, 45°, fine tip  
4 mm connector, 12 cm

HF-200-90

High frequency cutting electrode for arthroscopy, 90°, heavy version  
4 mm connector, 12 cm

HF-200-055

High frequency connecting cord comp. to arthroscopic cutting electrodes, handles length: 5 m, for units with 4 mm connector

Dr. Fritz hand instruments are suitable to all fine working cannulas. Inner diameter and working lengths of the instruments are specially designed for small animal arthroscopy.

## Arthroscopic Punches, Biopsy Forceps, Rongeurs and Grasping Forceps

High Power, Mini-Rongeur, universal

2,2/2,7 mm Instrument, working length 11 cm

AT-19-231 Mini-Rongeur -high performance-  
2,2/2,7 mm, 11 cm  
universal, overstraining protection  
cleaning connector, color code:black



2 mm Instruments, working length 11 cm

AS-17-521 Mini scissors for arthroscopy, OD: 2mm

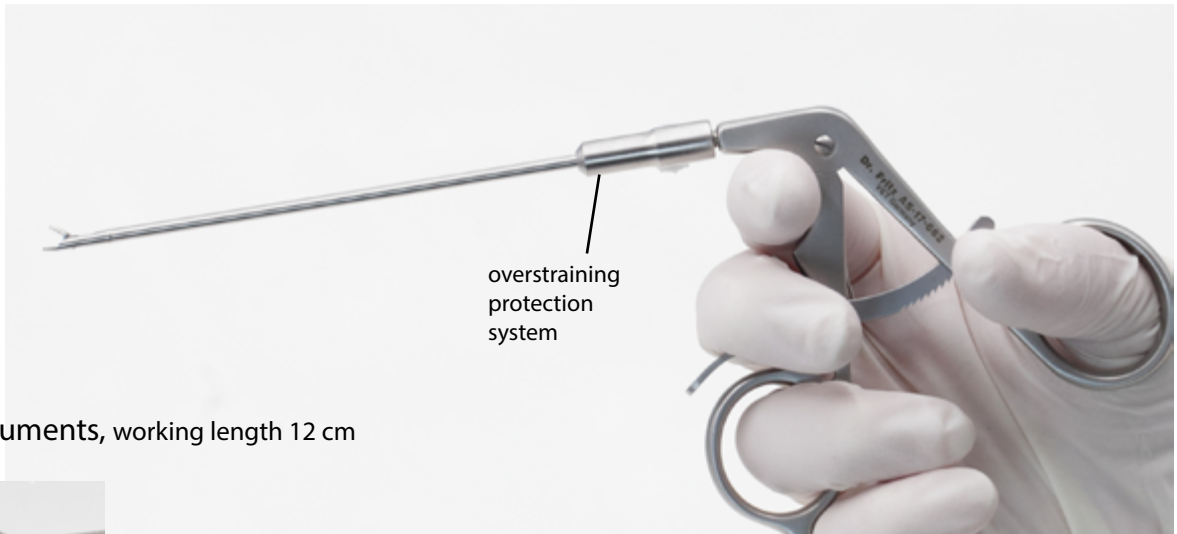
• long life span and highly durable

• easy handling  
adapted to veterinary applications



# Arthroscopy

## Punches, Biopsy Forceps, Rongeurs and Grasping Forceps



2,7 mm Instruments, working length 12 cm



AS-17-662 Alligator grasping forceps, with ratchet, OD: 2,7mm  
– with overstraining protection –



AS-17-632 Universal rongeur and grasping forceps, fenestrated, OD: 2,7mm  
– with overstraining protection –



AS-17-641 Rongeur and biopsy forceps, fenestrated, OD: 2,7mm  
– with overstraining protection –



AS-17-672 Arthroscopic punch, OD: 2,7mm  
– with overstraining protection –



AS-17-621 Arthroscopic hook scissors, OD: 2,7mm

- highly durable
- ergonomic design
- long life span
- high performance



Handle with ratchet ergonomic and small grip



Dr. Fritz hand instruments are suitable to all fine working cannulas. Inner diameter and working lengths of the instruments are specially designed for small animal arthroscopy.

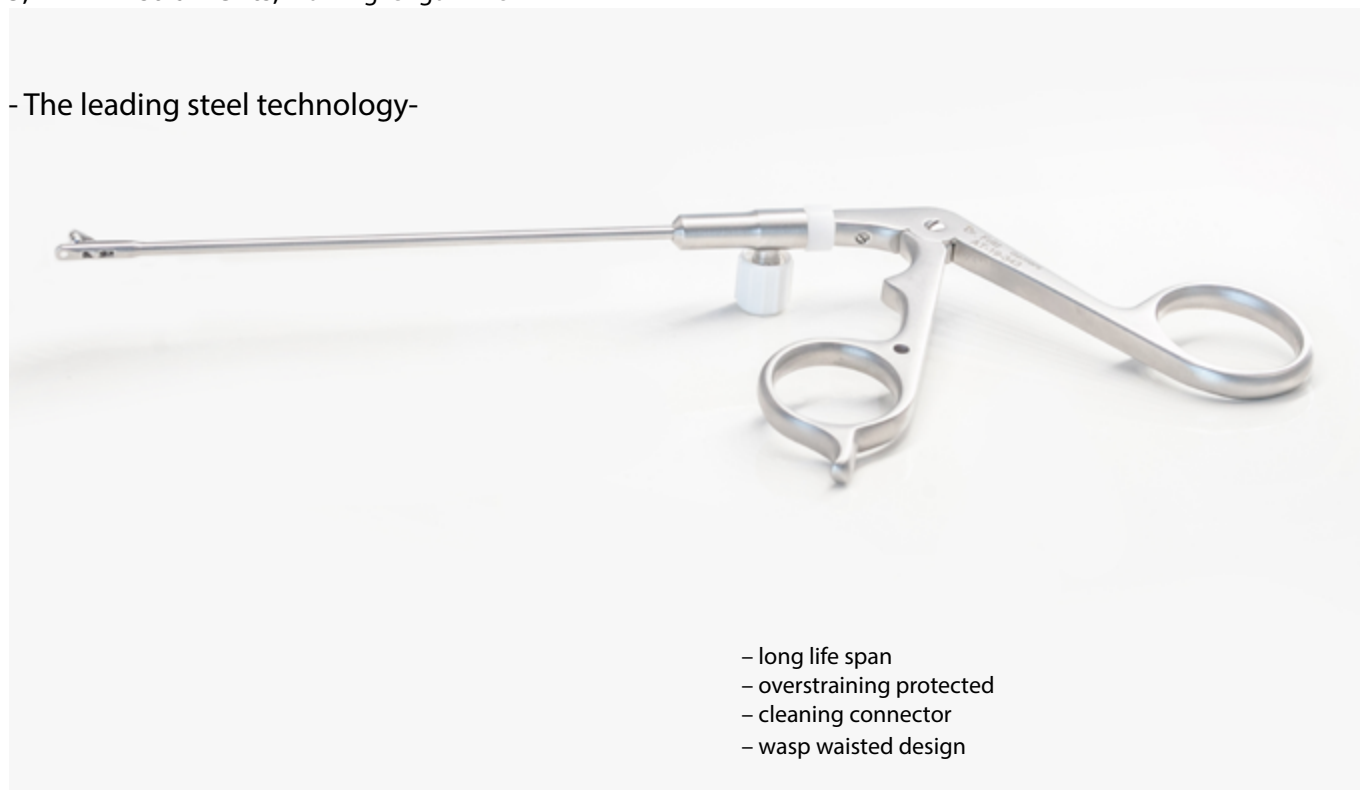
# Arthroscopy

## Punches, Biopsy Forceps, Rongeurs and Grasping Forceps

High Power, Rongeur with cleaning connector

3,4 mm Instruments, working length 12 cm

- The leading steel technology-



- long life span
- overstraining protected
- cleaning connector
- wasp waisted design

High Power Maxi-Rongeur, universal

3,4 mm Instrument, working length 12 cm



AT-19-343 Maxi-Rongeur -high performance-  
3,4 mm, 12 cm  
universal, with overstraining protection  
cleaning connector, color code:white



# Arthroscopy

## Punches, Biopsy Forceps, Rongeurs and Grasping Forceps

special applications without working cannulas

- Grasping forceps system of extra class
- fine and extremely strong



Ratched, easy handling

3,5 mm Instrument, working lenght 10 cm



AY-19-463

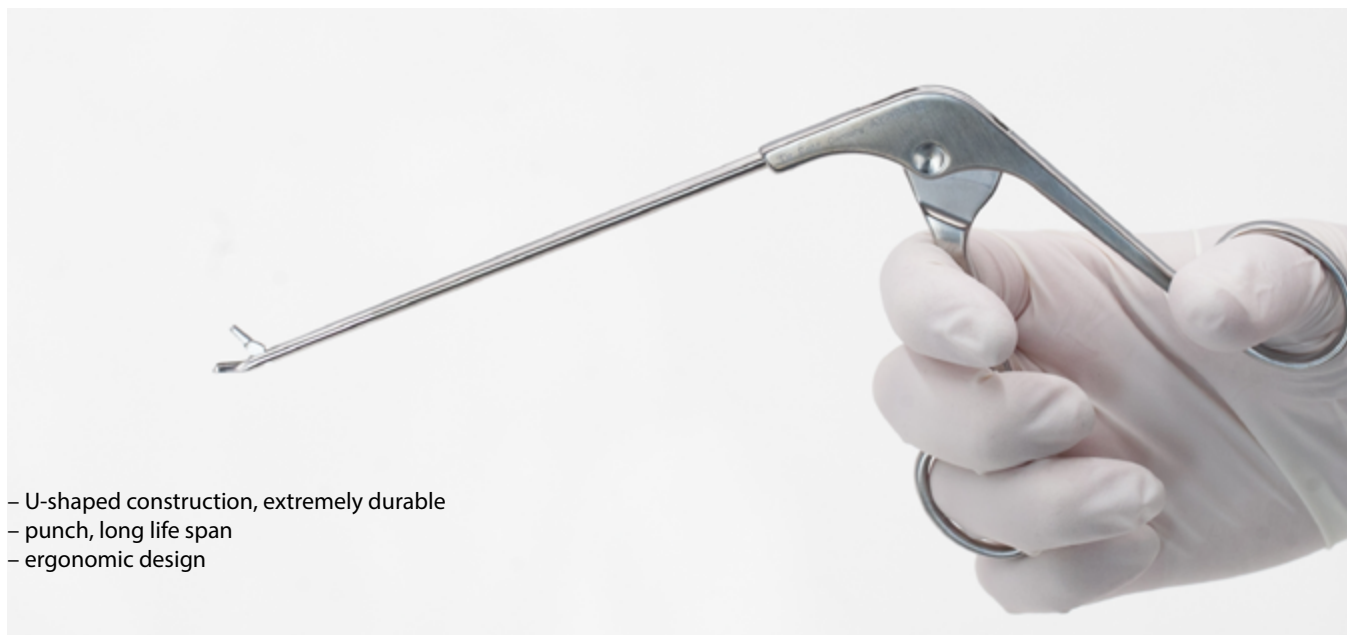
Arthro grasper, grooved, 4 mm, 10 cm conical pointed, with maximum power U-shaped construction



# Arthroscopy

Punches, Biopsy Forceps, Rongeurs and Grasping Forceps

special applications without working cannulas

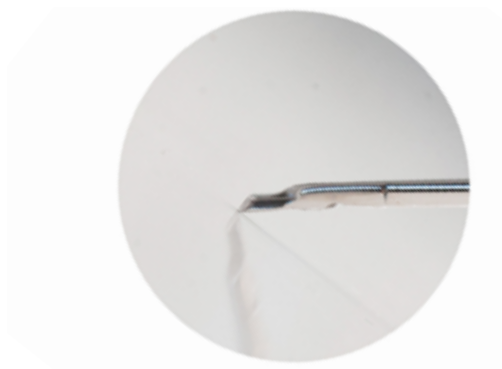


- U-shaped construction, extremely durable
- punch, long life span
- ergonomic design

4 mm Instrumente, working length 10 cm

AY-19-451

Arthro punch, straight,  
4 mm, 10 cm  
conical pointed, with maximum power cut  
U-shaped construction



AY-19-452

Arthro punch, bent upwards,  
4 mm, 10 cm  
conical pointed, with maximum power cut  
U-shaped construction



# Arthroscopy

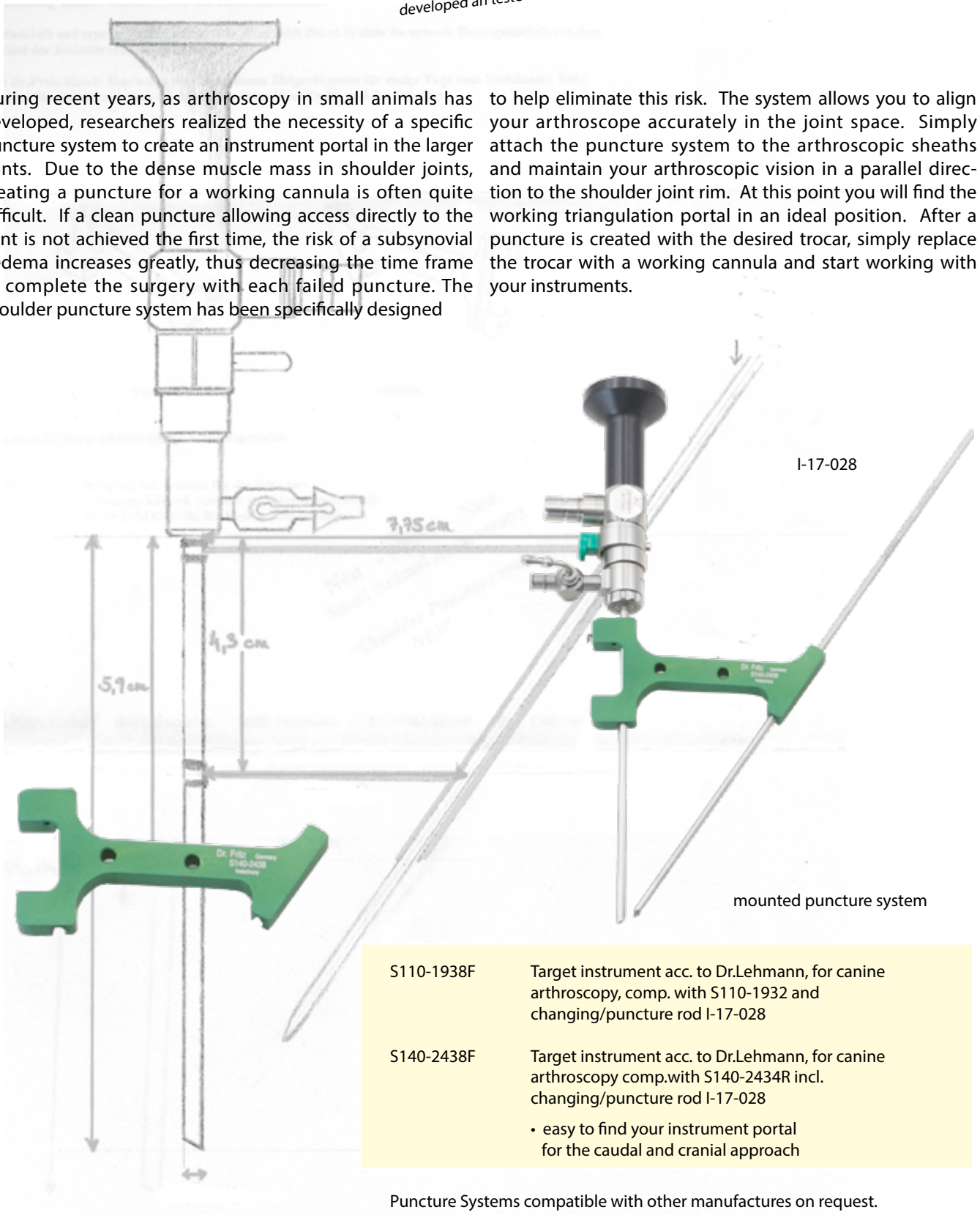
Puncture System acc. to Dr. Lehmann for the canine shoulder joint

**Innovation in  
small animal arthroscopy**

developed and tested at the Veterinary Faculty of Vienna, Austria

During recent years, as arthroscopy in small animals has developed, researchers realized the necessity of a specific puncture system to create an instrument portal in the larger joints. Due to the dense muscle mass in shoulder joints, creating a puncture for a working cannula is often quite difficult. If a clean puncture allowing access directly to the joint is not achieved the first time, the risk of a subsynovial oedema increases greatly, thus decreasing the time frame to complete the surgery with each failed puncture. The shoulder puncture system has been specifically designed

to help eliminate this risk. The system allows you to align your arthroscope accurately in the joint space. Simply attach the puncture system to the arthroscopic sheaths and maintain your arthroscopic vision in a parallel direction to the shoulder joint rim. At this point you will find the working triangulation portal in an ideal position. After a puncture is created with the desired trocar, simply replace the trocar with a working cannula and start working with your instruments.



S110-1938F Target instrument acc. to Dr. Lehmann, for canine arthroscopy, comp. with S110-1932 and changing/puncture rod I-17-028

S140-2438F Target instrument acc. to Dr. Lehmann, for canine arthroscopy comp. with S140-2434R incl. changing/puncture rod I-17-028

- easy to find your instrument portal for the caudal and cranial approach

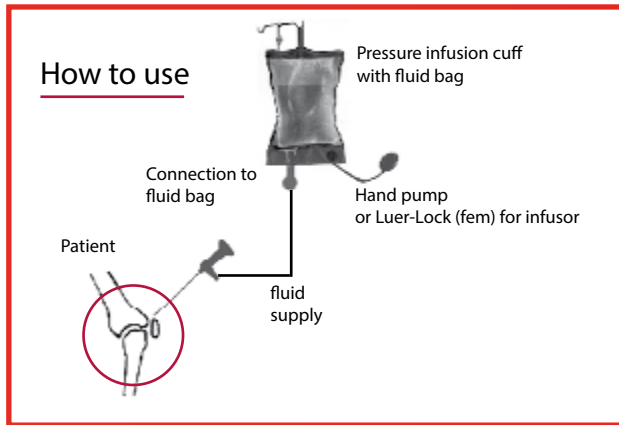
Puncture Systems compatible with other manufactures on request.



# Arthroscopy

## Fluid Supply System for Arthroscopy

### manual fluid supply system



### Pressure Infusion Cuffs



AR-08-100N Pressure infusion cuff for 500-1000ml with manometer and hand pump reusable

high quality manufacturing

for high flow fluid supply,  
please use big infusion tubes

SA

### Accessoires



I-18-518 Egress cannula, with sharp trocar stopcock, ID: 2,7mm, WL: 7cm,



#### Connection: fluid bag to arthroscope

AR-10-948 Silicon tube, 6x2 mm, 3 m, autoclavable, Luer-Lock (m), needle f. sterile bags/ bottles, large inner diameter

X-7-20-10 Silicon spare tube, 100cm, large inner diameter, size:6 x2mm, color: natur



AR-10-9 Needle for infusion bottles/bags, ID: 4 mm compatible to silicon tubes 3,5-5 mm

LLM-1258 Luer-Lock connector, male, 10 mm (without picture)

# Arthroscopy

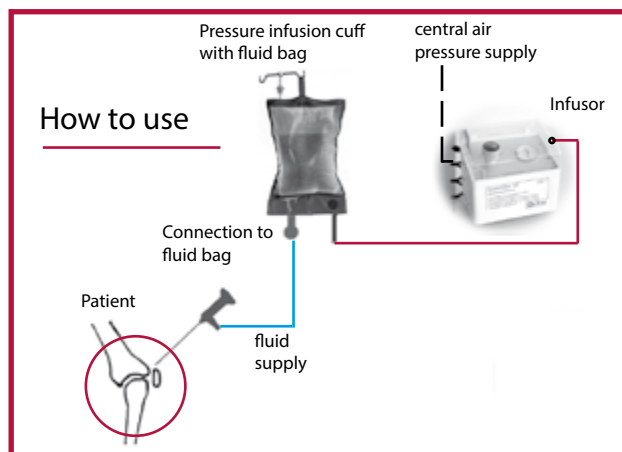
## Fluid Supply System for Arthroscopy

### Automatic fluid supply system for central air pressure supply



AR-10-100 Pneumatic pressure infusor, for infusion cuffs, for veterinary arthroscopy, compl., unit backside: 4 m tube to central pressure supply, DIN tube connection, front side: 3 m tube with Luer-Lock (f), universal table fixator, easy pressure setting, automatic regulation (0-300mmHg)

Pressure infusors pose the best options for small animal arthroscopy as well as for fluid and gas supply. New pressure infusors eliminate arduous hand pumping via pressure infusion cuffs. The new continuously adjusted pressure setting allowing for better regulation. The complete system is very easy to handle and does not experience problems like conventional roller pumps. Two types of infusors are available. The first, a pneumatic infusor, is connected to the central pressure supply. The second, a carbon dioxide infusor, is connected to a carbon dioxide bottle or a special carbon dioxide supply. By means of a three-way stopcock connection, it is possible to use the carbon dioxide infusor for direct carbon dioxide gas arthroscopy as well as the normal fluid supply. This makes possible the use of carbon dioxide which offers better working conditions when compared to fluid arthroscopy, especially when the joint is experiencing synovitis.



### Accessories:



### Pressure infusion cuffs for fluid supply system for use with infusion bags

AR-08-100N Pressure infusion cuff for 500-1000ml with manometer and hand pump reusable  
  
high quality manufacturing

## Camera Covers

DE-10-25



DE-10-25 Camera covers, disposable, 1 pcs, polyethylen, 13x250 cm, minimal amount 50 pcs



## Disinfection Soak Basin, Cleaning Brushes, Disinfection Solutions



DE-5-17 Cleaning brush small, 17cm, for tubes ID:2 - 4mm, autoclavable, 1 pc



DE-10-304 Disinfection concentrate IP, for instruments and flexible endoscopes, 2 litres concentrate, 1-3% dilution, for manual and automated use

DE-10-425 Soak basin for chemical solution disinfection, cons. of basin (perforated) tray & cover for basin, size: 42x16x9,5 cm



## Arthroscopy – Accessories

### Video Cart – completely mounted –

- 50 cm unit size
- Camera fixation knob
- Drawer
- 6 power succets
- CO<sup>2</sup> bottle stand
- ask for additional accessories



WV-54043

WV-54043 Video cart, size: 62x63 cm, h:143 cm, completely mounted, basic version, color: grey, partly blue, \*\*drawer inbuilt  
\*\*fixation knob for video camera head  
\*\*specially rust protected  
max. weight: 150kg/330lbs

(Gastroscope bracket, fixation system, devices and monitor are separate accessory)

WV-53022 Video cart, as above but height 110 cm (without pictures)

### Accessories for Video cart:

WV-99619 Fixation system for infusion bottles mounting set, comp.to video carts

WV-99952 Soft fixation system for gastroscopes mounting set, comp.to video carts. incl. gastro clamp ad plastic tray

WV-01601 Fixation system for CO<sup>2</sup> bottles mounting set, comp.to video carts for 5-10 litre bottles, max OD: 14,5 cm

WV-02851 Fixation system for CO<sup>2</sup> bottles mounting set, comp.to video carts for big bottles, max OD: 20,5 cm



WV-45111

WV-45111 Video cart, size:54x58cm, h: 112cm, completely mounted, basic version, drawer inbuilt with handle  
max.weight:50kg/110lbs  
max. unit size: 45cm  
color:grey, partly blue,

# Dogs, Cats, Birds and Exotic Species

## Endoscopic equipment

SA



Endoscopy in Pets,  
Birds and Exotic Species



## Equipment with camera system

- SET-RHINO-E Universal-Set for Rhinoscopy/Otoscopy for small animal practice
- consisting of:
- O Special telescope, 2,7mm, 0°
  - O Shaft with working channel
  - O Grasping forceps
  - O Cleaning brush
  - O LED light handle

## Large Image Telescope, 2,7 mm

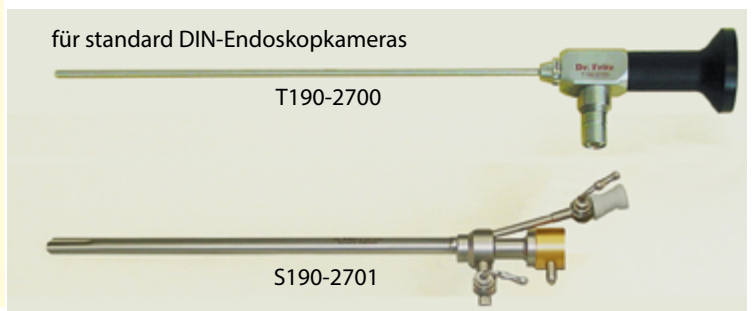
T190-2700  
Wide angle telescope, 0°, large image technology, OD: 2,7mm, WL: 19cm, standard light cable connectors



## Working Sheath

S190-2701  
Examination & working sheath for 2,7mm telescopes, 2,2mm instrument channel, LL(fem) connectors for irrigation, colour code: gold, special design for rhinoscopy, bronchoscopy, otoscopy and cysto-/vagoscopy

S190-D  
Trocar only, blunt, for S190-270 series (without picture)



## Biopsy and Grasping Forceps

compatible to examination sheath and video vaginoscope

- B18-32 Flexible grasping forceps, OD:2mm,28cm
- B18-33 Flexible grasping forceps, OD:2mm,35 cm
- K-3325-60 Special transportation case, 33x25x6cm for post rhinoscopy set, complete

- to take foreign bodies and biopsies under visual control through the examination sheath



## LED endoscope light handle

LED-8-35 LED light handle, accu power set, comp.to Fritz/Wolf, handle water resistant, consisting of:  
handle only (LED-8-35G),  
charger (LED-8-35LA)  
Li accu block 3,7Vx 1Ah (LED-8-35B)

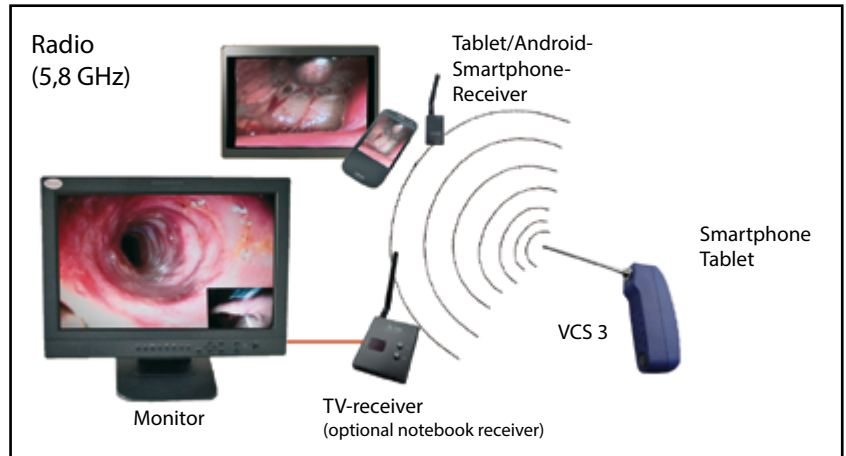
– see section light sources and camera systems pages 156-160



## Video-Compact-System 3, wireless

for dental, otoscopy and dermatology for every small animal consulting room

- integrated sender 5,8GHz for wireless video transmission
- high resolution
- easy handling, quick cleaning and disinfection
- fully immersible



B20-135

97-FU17BS Video Compact System 3, wireless, 3,5 mm, 9cm, „standard set“ complete, with radio transmission for TV & tablets or smartphones, in-built Li battery, resolution: 400x400 including charger, wall mount; examination & working sheath, biopsy forceps (B20-135) Monitor 7" incl. receiver (TXM7-58E) Cleaning brush 110-230VAC, 50/60Hz

### Special accessories:

TXL1-584R  
TV receiver



For connection to TV / monitors:

TXL1-584R TV receiver, 5,8GHz, only, standard, for TX/TD/TX series, video outlet: VHS/FBas, 60g, power supply: 115-240VAC/50/60Hz

## Flexible LED Video Bronchoscope, wireless with integrated video camera and LED light – wireless video transmission for monitor or PC

- up/down / 2 way deflecting
- fully immersible

Video transmission:



**TXBH4-54V**  
Wireless video bronchoscope, 3,9mm, 55cm  
veterinary in-built video camera with LED,  
video resolution (400x400)  
– in-built 5,8 GHz sender for wireless video transmission  
and Li accu  
– 1,2mm working channel  
– 2-way deflecting  
– fully immersible  
Set incl. case, density tester, cleaning brush and  
7" receiver/monitor

**TXBH2-36V**  
Wireless video nasopharyngoscope, 2,9mm, 36cm,  
as above item TXBH4-54V,  
but without working channel

– Veterinary use only! –

See also bronchoscopy on page 35-37