

Bovine

Dr. Fritz®
Wireless ■ Endoscopes

- Teat Endoscopy, Theloscopy
- Teat Products/Keratelin
- Laparoscopy/Thoracoscopy
- Vaginoscopy



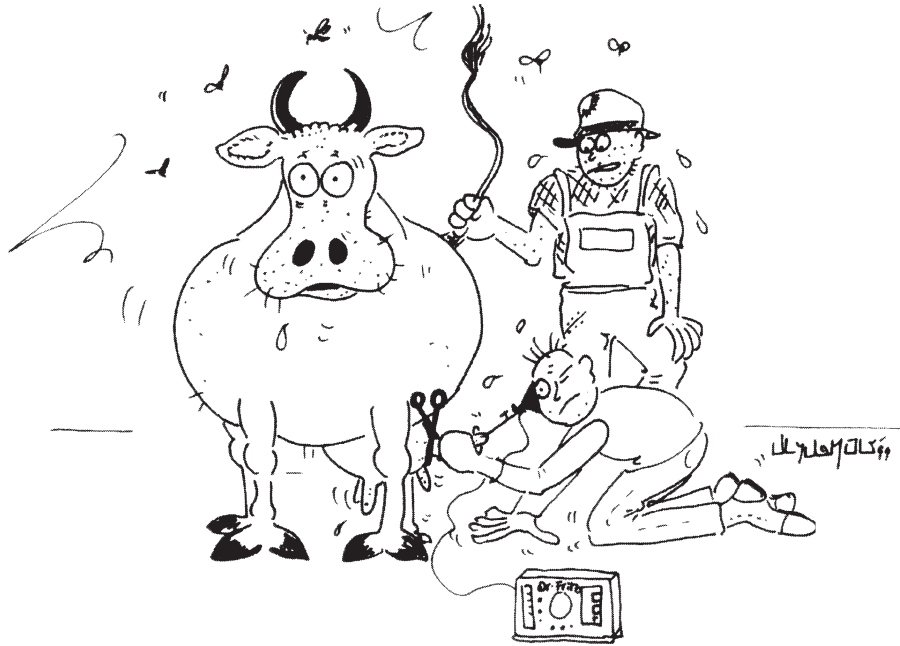
We are changing
veterinary endoscopy

Bovine



Teat Endoscopy / Theloscopy

Minimal invasive treatment of teat disorders



WIRELESS Video Teat Endoscopy

Equipment for endoscopic and
diagnosis in cattle

115 2025

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Dr. Fritz[®]
Wireless ■ Endoscopes



Teat Endoscopy / Theloscopy

Treatment of teat disorders using minimal invasive techniques with teat endoscopy

The use of a lateral portal techniques in teat endoscopy by **Maximilian Medl** and **Klaus Querengässer** in 1994 has created a renaissance in research into teat disorders and treatment. Following their findings specific endoscopic equipment was developed to improve diagnosis and treatment.

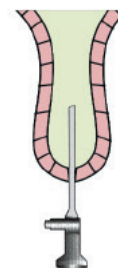
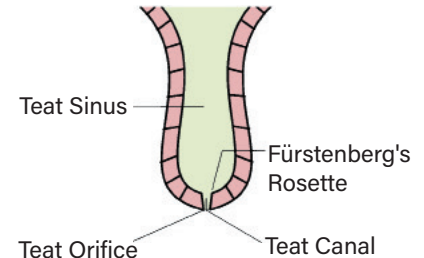


A further new generation of instruments completes the set: first a teat clamp to enable endoscopy, secondly a new teat knife with disposable blades and thirdly our stenosis cutter acc. to Eisenhut. We supply a suitable transport case to protect the scope and the instruments with additional parts. With our new **Keratelin** products we offer excellent and professional after care service.

Teat Set standard, SET-ZIZ-3

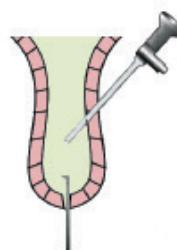
With battery handle, air pump and instruments

T141-3000	Wide angle telescope , 0°, OD: 3mm, WL: 14cm
S140-3001	Sheath , OD: 4mm, WL: 12cm
LED-8-32	Light handle , mignon battery AA, 1,5 VDC
ZB-5-3	Inflation pump , battery operated,
Z-40-05	Special teat probe
Z-44-85	Special teat clamp , with ratchet, size 12cm
Z-55	Teat knife acc.to Dr.Ebner,
Z-47-030	Stenoscutter D: 3,0 mm
Z-47-033	Stenoscutter D: 3,3 mm
DE-5-17	Cleaning brush , small, 17cm
DE2014-41	Sterilizing & storing case , 200x140x40mm
A79-IP6-SET	DIN Okular Lense with cover adaptor
K-4530-10	Special transportation case , for teat endoscopy



Conventional Technique:

Examination via teat canal
An examination of the teat sinus is possible but you can not see the Fürstenberg's Rosette, where 95% of the internal lesions occur. Parallel treatment through the teat canal is difficult.



Medi-Technique:

Examination and treatment via lateral teat wall. Only lateral perforation of the teat wall enables easy examination of the whole teat lumen and especially of the Fürstenberg's Rosette. Via teat canal treatment is possible under endoscopic control.

Please ask us or your customer service for a special quotation for your practice.

Literature: MEDL, M., K. QUERENGÄSSER et al.: Zur Abklärung und Behandlung von Zitzenstenosen mittels Endoskopie, Tierärztl. Prax. 1994, 22:532-7 / QUERENGÄSSER, K.: Diagnose u. Therapie v. Zitzenstenosen beim Rind mittels Endoskopie, Univers. Zürich, Diss. 1998 / SEEH, C., R. HOSPES: Erfahrungen mit einem Theloresektoskop, Tierärztl. Prax. 1998, 26(G):110-8



Teat Endoscopy /Theloscopy

Treatment of teat disorders using minimal invasive techniques with teat endoscopy

- Wireless video transmission
- For TV, notebook, PC
- Li battery
- Resolution 400x400



■ SET-Z6-VE

Video test endoscopy set Basic, 3,5 mm

wireless video endoscope with radio transmission 5,8GHz:

97-FU17	Wireless endoscope (VCS3), charger
TXL2-580M	5" monitor, receiver&recorder, battery operated
TR-04-84S	Sheath and trocar
K-4530-10	Transportation case
(without picture)	

■ SET-Z6-VIS

Video test endoscopy set Plus, 3,5 mm

wireless video endoscope with radio transmission 5,8GHz:

97-FU17	Wireless endoscope (VCS3), charger
TXL2-580M	5" monitor, receiver & recorder, battery operated
TR-04-84S	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-47-030	Stenosiscutter D: 3,0 mm
Z-47-033	Stenosiscutter D: 3,3 mm
DE-5-17	Cleaning brush, 17 cm
DA2110-5	Storing case
K-4530-10	Transportation case



■ SET-Z6-EW Additional equipment (only in connection with VCS3, small animals)

to be used in teat endoscopy, consisting of:

TR-04-84S	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-47-030	Stenosiscutter D: 3,0 mm
Z-47-033	Stenosiscutter D: 3,3 mm
DE-5-17	Cleaning brush, 17 cm
DA2110-5	Storing case
K-4530-10	Transportation case



Teat Endoscopy / Theloscopy

Standard instruments

The new standard



Teat knife acc. to EBNER

- handle with disposable blade
- blades easy to change and safe
- for each large animal practice

- Z-55** Teat knife acc. to Dr. Ebner, pat. locking system, handle and 1 blade (disposable)
- Z-55-2** Teat knife acc. to Dr. Ebner, pat. locking system, const. of: handle (Z-55) and 10 spare blades (Z-55-1)
- Z-55-1** Scalpel blades f. teat knife, 10pcs/b individually packed, sterile, comp. to handle type Z-55

The second generation

Stenosis cutter acc. to EISENHUT

- high quality tissue punch
- easy to clean



- Z-47-030** Stenoscutter acc. to EISENHUT, small
OD: 3mm, WL: 4,5cm,
color code: metal



- Z-47-033** Stenoscutter acc. to EISENHUT, large
OD: 3,3mm, WL: 4,5cm,
color code: gold



- Z-40-05** Special teat probe for teat canal measurement and palpation



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



Keratelin® Products

■ Keratelin® Teat products for teat care

Suture-Bandage Plug the natural solution

Z-99025-TH **KERATELIN „Thelasel“**
teat dilator, OD: 3 mm, box 24 pcs.,
sterile*

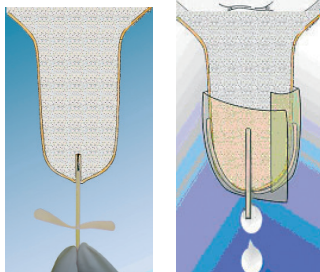
- The revolution in teat dairy care -



Breakage safe and stable.

Latest generation of natural teat canal plugs - first choice in any fresh cases of distal teat injuries
- plug and tape it -

KERATELIN "P2-Cath" Permanent Catheter

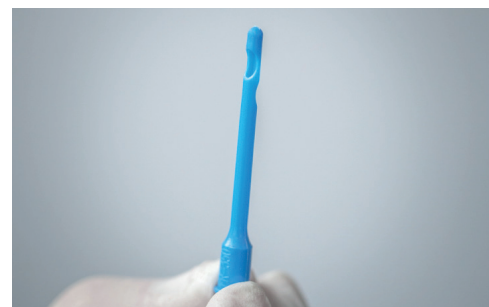


Z-99027 **KERATELIN „P2-Cath“**
acc. to Schlederer, 8 pcs.,
OD: 2,8mm, LL(w), individually packed,
sterile*

- For easy day milk release
- Easy and gentle to insert
- Fast milk flons

KERATELIN Milk Cannula professional teat care

Z-99055 **KERATELIN Milk Cancula,**
disposable, 100 pcs.
individually packed, sterile*



Extra large inner
diameter, available every time.

*Attention: sterile product -
return shipment not accepted

Bovine



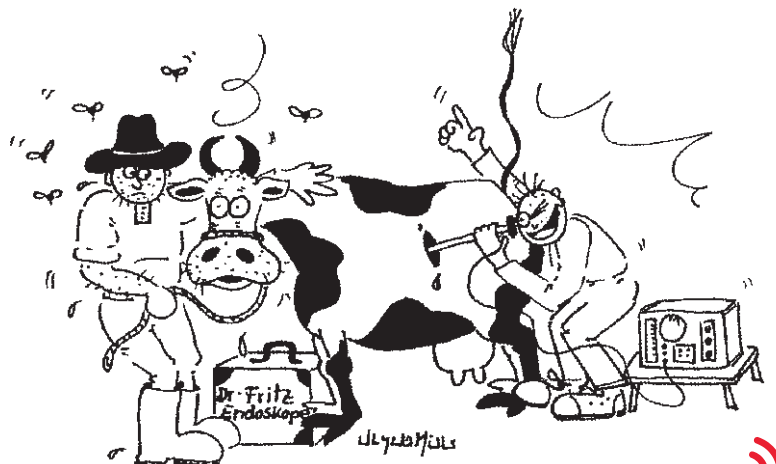
Laparoscopy / Thoracoscopy

Equipment for laparoscopic repositioning and fixation of abomasal displacement
(acc. to Dr. Janowitz), accessories for standing upright position (acc. to Dr. Christiansen)



WIRELESS Video-Laparoscopy

in Cattle

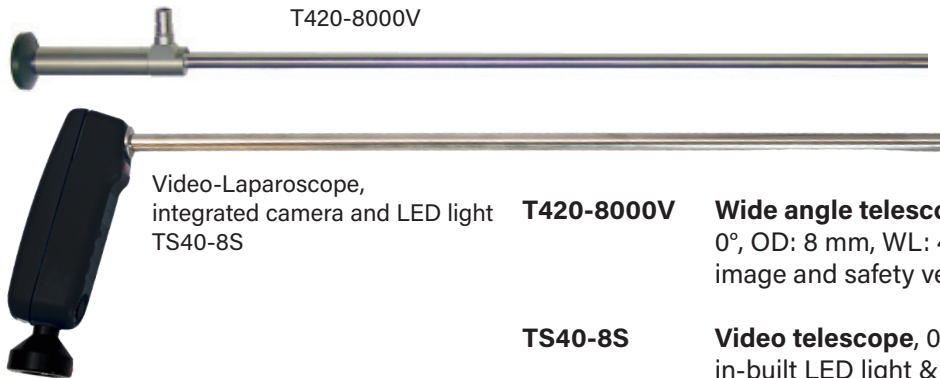


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Laparoscopy

Telescope, Trocars and Accessories



Video-Laparoscope,
integrated camera and LED light
TS40-8S

T420-8000V

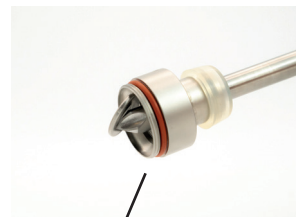
Wide angle telescope,

0°, OD: 8 mm, WL: 46 cm. large
image and safety version, for large animal practices

TS40-8S

Video telescope, 0°, wireless, OD: 8 mm, WL: 40 cm,
in-built LED light & 5,8Ghz sender, rechargeable
Li battery, fully immersible, resolution: 720x640pxs,
robust veterinary version, set consisting of:
video laparoscope (TS40-8), charger(TV27-NET)

- 234-200V** **Cannula only,** magnetic valve, ID: 8mm,
WL:12cm, stainless steel, stopcock
- 234-166V** **Trocar, only,** cork screw handle, special
sharp tip, for cannulas ID: 8mm, WL: 12cm
- 231-201V** **Cannula only,** magnetic valve, ID: 5,5mm,
WL:12cm, stainless steel, stopcock
- 231-166V** **Trocar, only,** cork screw handle, special
sharp tip, for cannulas ID: 5,5mm, WL: 12cm

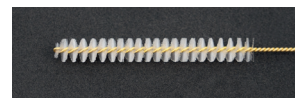


magnetic flap valve
system



Accessories:

- 234-211** **Spare sealing caps,** for trocar cannula 8 mm, p. of 10 pcs.
- 231-211** **Spare sealing caps,** for trocar cannula 5,5 mm, p. of 10 pcs.
- 230-215** **Spare magnetic valve flap** 8/10/11/12/13 mm, p. of 2 pcs.
- 231-215** **Spare magnetic valve flap** 5,5 mm, p. of 2 pcs.
- DE-6-21** **Cleaning brush for tubes,** size: 4 to 7 mm, 20 cm
- DE-9-25** **Cleaning brush for tubes,** size: 7 to 10 mm, 25 cm
- DE-6-102** **Cleaning brush, flexible,** for tubes, size: 5 to 8 mm, 70 cm



DE-6-21



DE-9-25



DE-6-102

Light sources for field practice

- 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)



LED-8-35



Laparoscopy

Instruments & Accessories

Safety toggle

- Robust and break resistant(material)
- 90 cmdouble suture material
- With markings along the suture
- Increased stiffness of suture material to assist placement in abdomen

LO-40-04 Safety toggle pin acc. to Dr. Janowitz, for laparoscopic abomasal fixation, 5 pcs.



Needle, puncture system

L-33-218 Palpation probe and puncture cannula,
OD 5 mm, 33 cm

L-33-218



TR-40-350 Toggle placing trocar set
acc to Janowitz,
OD: 5 mm, WL 35 cm,
consisting of:
cannula only (TR-40),
trocar only (TR-40-3),
obturator (TR-40-35)

TR-40-350



Suture grasping forceps

L-19-757 Suture grasping & preparation forceps
acc. to Dr. Janowitz, long version, OD: 5mm, WL: 46 cm,
cleaning connector

L-19-757



L-19-461 Suture grasping hook acc. to Dr. Meyer, 5 mm, 40 cm





Laparoscopy

Spieker acc. to Christiansen



Repositioning of LDA,
in a standing upright position

Janowitz and Christiansen,
Gießen 2003

TR-78-766 Christiansen-Spieker for large animals

Length: 1m

Consisting of:

- Lancet TR-78-761
- Innenr tube only TR-78-762
- Outer tube front part TR-78-763-1
- Grip outer tube TR-78-763-2



TR-78-761 Lancet only

Suitable for Grip outer tube TR-78-762



TR-78-762 Inner tube only

Suitable for lancet TR-78-761



TR-78-763-1 Outer tube, front part only

Suitable for Grip outer tube TR-78-763-2



TR-78-763-2 Grip outer tube only

Suitable for Outer tube front part
TR-78-763-1



TR-13-145 Working trocar Ø 13mm, WL: 14cm

Consisting of:

- Cannula TR-145
- Sharp trocar TR-13



237-505 Reducer adapter

For trocars

- From Ø 13mm to Ø 10mm





Laparoscopy

Soak basin



DE-10-426

Soak basin for chemical solution disinfection consisting of basin /perforated), tray & cover for basin, size:72,5x20x14 cm

Suction & inflation pump



H140-3S



H150-1-1

H140-3S

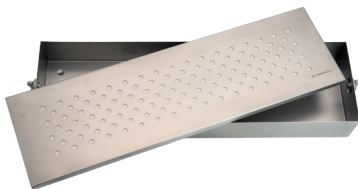
Suction & irrigation pump, soft system, complete with 2 bottles (suction/ water) 1 litre each, tubing set autoclavable, vacuum: 3 L/min, max: 0,4 bar pressure: 4 L/min, max.0.5 bar (400mmHg) incl. transformer 115- 240VAC;50/60Hz

H150-1-1

Inflation pump, small, 4 litre/min silicon tube, LL(m), 3m, 230VAC, 50/60Hz

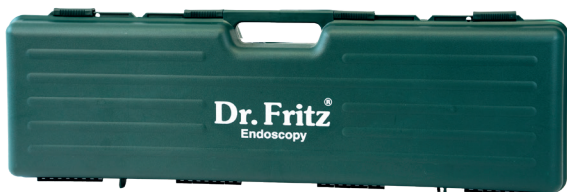
Transportation case and instruments, container

For safe storage of your cold light source, instruments and telescopes



DE4011-48

Sterilizing and storing case, stainless steel, 40x11x6 cm, lid perforated, with textile filter



K-8427-11

Case for storage and transport of telescopes and instruments, 84x27x11 cm,

Y-K-8427-13 **Spare inlay for transportation case**

type K-8427-11, washable (without picture)



Laparoscopy

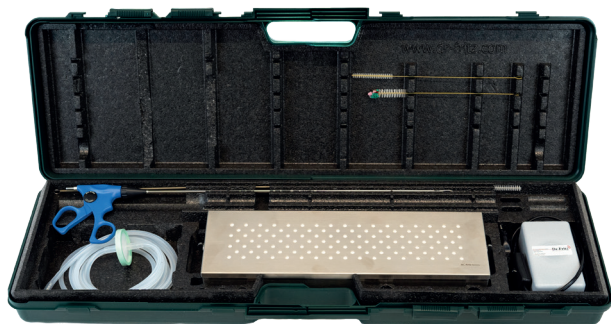
Set for laparoscopic repositioning and fixation of abomasal displacement in cattle acc. to Dr. Janowitz

Sets with lights handle

This set allows the veterinary surgeon to use a quick, and extremely safe technique with no medication requirements as well as quick recovery of the patient. The basic element in the set is a specially developed robust scope with a length designed specifically for this purpose. Instruments are specifically designed for use in large animal field situations and stored in a practical transport case to guarantee a long life. In research programs it emerged that the traditional toggle system often offered inadequate strength and resulted in either rupture of the suture material or breakage of the plastic toggle material. This has led to the development of a new safety toggle with a 90 cm long break safe double suture.

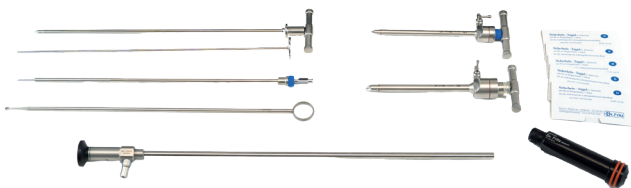
Basic set (SET-LAB-231)

Set for endoscopic LDA/RDA repositioning



▪ Removeable, washable inlay

▪ Case bottom can also be used as disinfection basin



2-step technique (Janowitz-Technik)

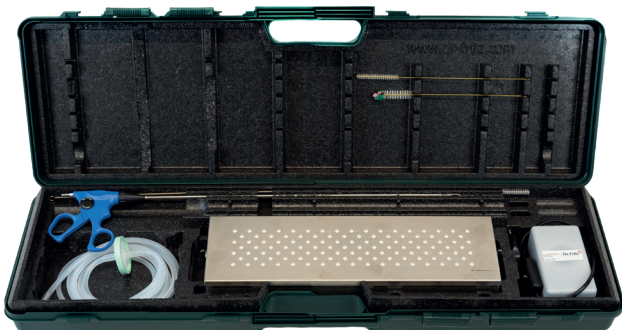
Basic set consisting of:

- Special cattle telescope, Ø 8mm, 0°
- Trocars and trocar cannulas Ø 8mm & 5mm
- Trocars and trocar cannulas Ø 5mm
- Palpation probe and puncture needle
- Abomasal puncture trocar set
- Suture grasping forceps, long
- Suture grasping hook acc.to Meyer
- Safety toggle pins, 5 pieces
- Sterilizing and storage tray
- Inflation pump
- Cleaning brushes
- LED light handle, accu
- Transportation case, can also be used as a disinfection basin

Set also available with video endoscope - SET-LAB-V41

Large set (SET-LAB-232)

Basic set + Spieker acc. to Christiansen

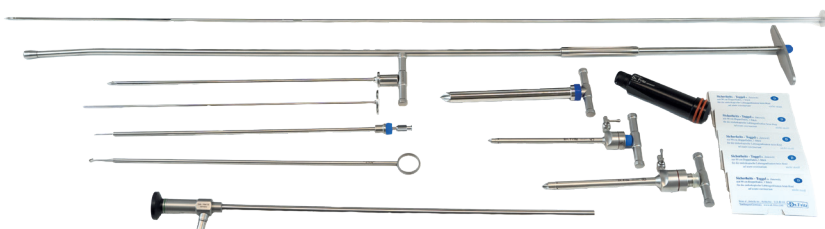


2-step + 1-step technique (Janowitz- + Christiansen Technik)

Large set consisting of:

- Basic set
- Trocar and cannula Ø 13mm, large
- Spieker acc. to Christiansen complete

Set also available with video endoscope - SET-LAB-V42





Laparoscopy

Set for laparoscopic repositioning and fixation of
abomasal displacement in cattle acc. to Dr. Janowitz

Eco Set (SET-LAB-233)



1-step technique (only standing upright position)

Set „Eco“ consisting of:

- Special cattle telescope Ø 8mm, 0°
- Trocar and trocar cannula Ø 8mm
- Abomasal puncture trocar cannula, and blunt obturator
- Safety toggle pins (5pcs)
- LED light handle, battery
- Trocar and cannula, 13mm, large
- Spieker acc.to Christiansen
- Transportation case, can also be used as a disinfection basin

Set also available with video endoscope - SET-LAB-V43

All sets also available with video endoscope

Video „Basic“ set SET-LAB-V41

Video „Large“ set SET-LAB-V42

Video „Eco“ set SET-LAB-V43



Transmission

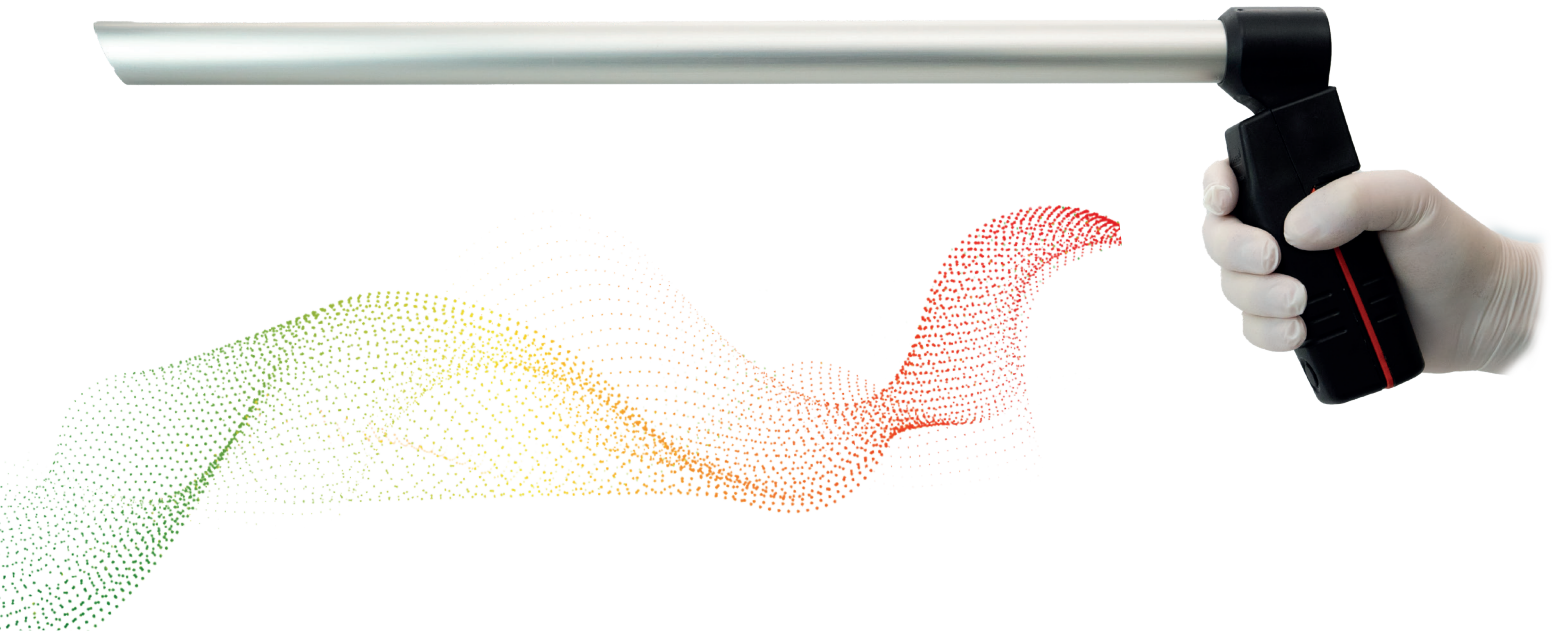


Bovine



Compact Video Vaginoscope

Professional video vaginoscope, wireless, for diagnostic use and treatment in dairy cattle



WIRELESS Compact Video Vaginoscope

worldwide, unique and up to now
unmatched easy in practical use



Control display



Battery replaceable

127 2025

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Dr. Fritz[®]
Wireless ■ Endoscopes



Compact Video Vaginoscope

Professional video vaginoscope, wireless, for diagnostic use and treatment in dairy cattle

■ For practitioners and universities



- ✓ Battery replaceable
- ✓ Control display on the endoscope
- ✓ Integrated sender 5,8 GHz
- ✓ Integrated LED light
- ✓ Easy handling & quick cleaning
- ✓ Fully immersible

Set TQ52-28RD

Compact Video Vaginoscope & speculum for cattle. Cordless generation with exchangeable battery, built-in camera with 5,8 GHz radio transmission, LED light, 1,5" display. Both completely soakable when vaginoscope and battery a separated.

- Compact Video Vaginoscope
- Obturator, blunt
- 2 spare batteries
- Charging station
- Charger
- Reducer adapter
- 10" monitor receiver

■ Accessories to be used as transvaginal laparoscope

TQ52-65

Fornix perforator / cross trocar, 26x570mm. Compatible with TQ52-28RD.

- Trocar & blade guide (TQ52-65-1/2)
- Spare blades, 12 pcs./pack (TQ52-66KL)
- Spare part set, hexagonal wrench, spring, protection caps (TQ52-65ER)



TQ52-64S

Ova ligator, Ring ligator, 64cm. Compatible with TQ52-28RD.

- Main part with handle (TQ52-64G)
- Lifter (TQ52-64H)
- Ligatur rings (TQ52-R50)
- Applicator (TQ52-64Y)





Compact Video Vaginoscope

Professional video vaginoscope, wireless, for diagnostic use and treatment in dairy cattle

■ Complete Set for vaginotomy and transvaginal laparoscopy and spaying



- ✓ Battery replaceable
- ✓ Control display on the endoscope
- ✓ Integrated sender 5,8 GHz
- ✓ Integrated LED light
- ✓ Easy handling & quick cleaning
- ✓ Fully immersible

Set TQ52-28RD1

TVC-Set, transvaginal spay/castration.
Cordless generation with exchangeable battery,
built-in camera with 5,8 GHz radio transmission, LED light,
1,5" display. Both completely soakable when vaginoscope
and battery are separated.

- Compact Video Vaginoscope
- Obturator, blunt
- 2 spare batteries
- Charging station
- Charger
- Reducer adapter
- Fornix perforator/ cross trocar
- 2 x ova ligator
- 50 ligatur rings
- 5" arm monitor

■ Spare parts

Scalpel blades

No.20 for trocar TQ52-65,
individually packed, 12pcs/pack
(TQ52-66KL)

Spare rings

Passend zu TQ52-64S,
production sterile,
FDA biocompatible, 100pcs/pack
(TQ52-R100)

Reducer adapter

For TQ52-28, 28/10mm, luer (fem),
silicon cap 8mm (234-211),
and sealing cap (234-600)
(TQ52-E)

Wireless HD transmission





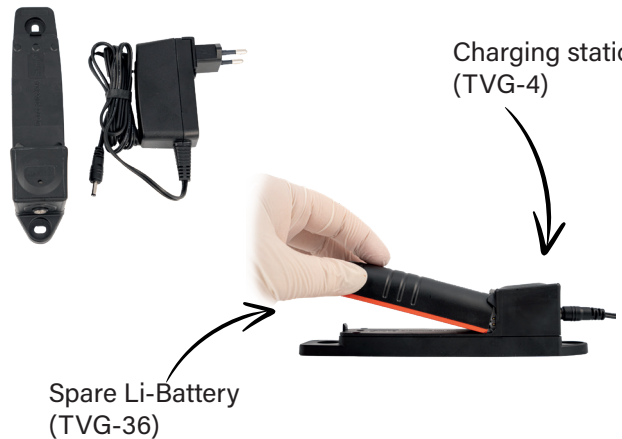
Individual parts TQ52 series

Compact Video Vaginoscope
OD: 28mm , WL: 52cm
fully immersible
(TQ52-28)



Charger
(97-FU14EU)

Charging station
(TVG-4)



Obturator, blunt
(TQ52-281)



Reducer adapter
28/10mm, luer (fem)
(TQ52-E)



Ova ligator, WL:64cm
(SET: TQ52-64S)



Fornix perforator/ cross trocar
(SET: TQ52-65)



Spare rings,
50pcs. (TQ52-R50)
100pcs. (TQ52-R100)



Scalpel blades, 12pcs.
(TQ52-66KL)



Case,
Case lid can be used as a
disinfection tray
Dimensions: 84x27x11cm
(Y-K-8427-11-1 /
Y-TQ52-SC)



5" Monitor receiver
incl. recorder & accu
(TXL2-580M)



10" Monitor receiver
incl. recorder & accu
(TXM10-58R)





Several applications

- ✓ Multi receiver capable



- ✓ Automatic radio connection, all types of endoscopes (broncho/arthroscopes/laparoscopes)



Receiver - monitor



TXL2-580M

5" Receiver-monitor, recorder

- mSD card slot, automatic scan, battery
- With arm strap

TXM7-60R

7" Receiver-monitor, recorder

- mSD card slot, automatic scan, battery

NEW: Time and labelling stamps for patient data

TXM10-58R

10" Receiver-monitor, recorder

- mSD card slot, automatic scan, battery

TXM10-60R

10" Receiver-monitor, recorder

- mSD card slot, automatic scan, battery

NEW: Time and labelling stamps for patient data



M-LCD-22PC

21" LCD PC

- With in-built receiver and recorder

TXL1-7-NO2

Receiver for Apple & Windows

- Incl. USB grabber



M-LCD-21SK

21" Video monitor HD

- With in-built receiver for scopes

TXL1-583

TV receiver for monitor

- Video-Out

TGR-40

Multi HD radio receiver

- HDMI out