

EICKVIEW 60S / 60 / 70 / 100E / 150E VIDEOENDOSCOPES

USER MANUAL



Item no. 306009 / 306011 / 306010 / 306166 / 306164

TELEPHONE +49 7461 96 580 0

www.eickemeyer.com

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Eickemeyer®



Please follow instructions step by step before use!

1. The temperature of the examined object must not be higher than 60 °C.
2. Avoid every kind of beats and bucklings.
3. The endoscopes are only allowed to be used between 10 to 40 °C.
4. These videscopes are for veterinary use only.

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In order to use the device well, please read the instruction manual carefully, according to the specific procedures to operate the device.

1. SAFETY

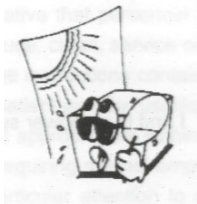
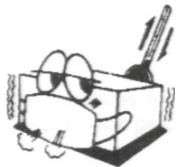
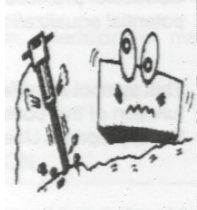
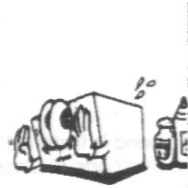
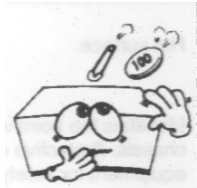
Introduction

All users, operators, and maintainers must be familiar with and pay particular attention to all Warnings and Cautions incorporated herein. Before use this product, please read the instruction carefully to ensure you can use it in a safe, correct and effective way.

Warning and attention label		
Signal	Meaning	
 Warning	“Warning” indicates in case of neglect of attention the presence of a hazard that could result in severe personal injury, death or substantial property damage.	
 Note	“Note” indicates informs the user in case of neglect of attention to be improper installation, operation or maintenance, such behavior can lead to device damage.	

Environment Factors

Avoid the following environments

	Where the device is exposed to water vapor. Don't operate a device with a wet hand.		Where the device is exposed to direct sunlight.
	Where the temperature exchanges extremely.		Where it is near the heat equipment.
	Where the humidity is extremely high or there is a ventilation problem.		Where the device is subject to excessive shocks or vibrations.
	Where device is exposed to chemical material or explosive gas.		Where the device is exposed to dust and corrosive air.

- Never pull out the plug by holding the cable.
- Avoid places where the ambient temperature falls below 10 °C or exceeds 40 °C.
- Do not dismantle the device except the authorized person.
- Please immediately shut off the power when the device damage, appears abnormal image or can't bend after cleaning and disinfection.
- This equipment may only be used together with accessories supplied by manufacturer.
- Please put the manual at the place where the operator and maintainer can easily get.
- Before every operation, visually check the equipment for exterior mechanical damages and for proper function.
- Please make sure you will deliver the electronic rubbish, packaging materials to the specialized collection place in accordance with the requirements of local laws and regulations.

2. APPLICABLE SCOPE

EickView Videoendoscope can be used as an inspection and diagnosis equipment of upper respiratory tract (including sinus, throat and trachea), also it can record the procedure as images or videos on the SD card for observation or printing.

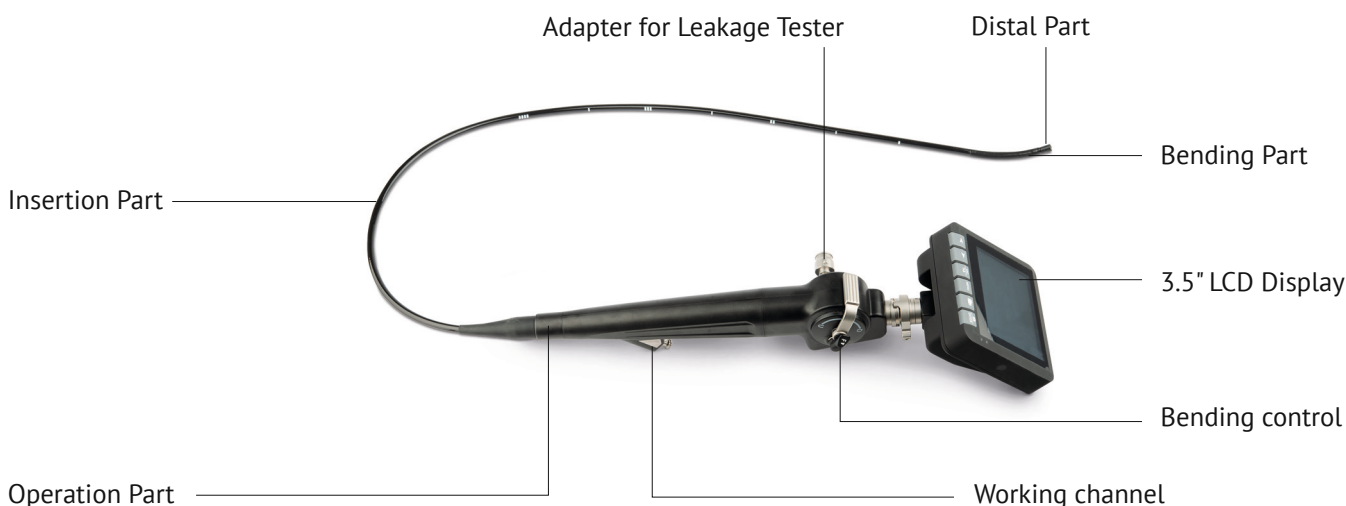
3. THE NOTICE OF USE

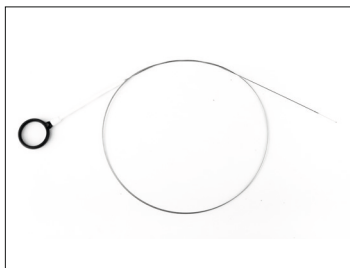
- The device must be installed, operated and maintained by trained and qualified person, or do it under their direct supervision.
- The maintenance of this device should be done in accordance with this user manual.
- Please immediately clean, disinfect, dry and store the videoendoscope in a designated location after using this equipment.
- The package of this device can not be pressed, impacted and knocked so as to prevent deformation damage.

4. GENERAL INFORMATION

Delivery Contents

- | | | | |
|--------------------|-----------------|--------------------|-----------------------|
| • Videoendoscope | • Power adaptor | • Leakage tester | • Adapter for forceps |
| • Cleaning Brush | • USB cable | • Black vent cover | |
| • 3.5" LCD Display | • SD card | • AV output cable | |





Cleaning Brush



Leakage Tester



Adaptor for Forceps



SD Card



Black Vent Cover



Power Adaptor



USB Cable



AV Output Cable

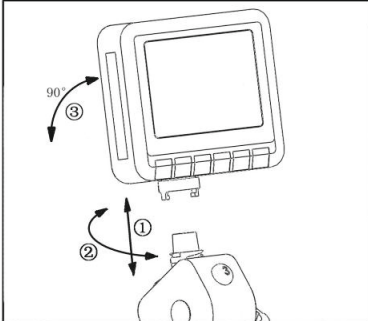
Definition

- Distal part: Image sensor and fibers for illumination.
- Bending part: Bending up and down in two directions.
- Insertion part: The part which is inserted to the patient.
- Operation part: It's the holding and operation part.
- Leakage tester: Connect to the adaptor for leakage tester to check the seal of videoendoscope. The leakage test must be carried out immediately after usage to ensure that the endoscope is dense.
- Vent Cover: **During gas sterilization, transportation or long-term storage ventilation cover should be installed on the adaptor for the leakage tester, while in the cleaning, liquid immersion disinfection it should be removed.**
- 3.5" LCD Display: Supply the power to videoendoscope and show the image on the screen.
- SD card: To save the files of pictures and video.
- Power adaptor: To charge the 3.5" LCD.
- USB Cable: To connect computer to read out file.
- AV output cable: Output image signal to show in monitor.
- Cleaning brush: To clean the instrument channel.

5. OPERATION

Install 3.5" LCD

Make the red dots on the lock of LCD and the adaptor of videoendoscope on a same level, connect the LCD on the adaptor of videoendoscope and lock clockwise tightly. The LCD can be rotated.

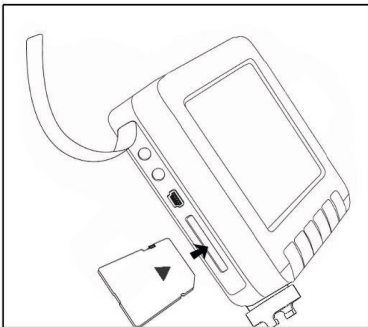


Note!

To install and disassemble the 3.5" LCD should be very careful in case of falling down.

Insert SD Card

Lift the protective cover on the left side of the LCD, face up SD card into the slot completely, then close the over. If there is no card inside of LCD, please do not to take photo or video. If you want to take the SD card out, please push the card gently.



Switch on the Power

Turn on the device with the switch on the top of the monitor. First the LED's at the distal end light up. Short after the monitor starts to work.

Bending Control

Rotate the pole of bending to control the up and down bending.



EickView 60S/60/70/100E/150E



Note!

Do not overexert when bending. If the bending resistance is too much or it can not in place or cannot bend, it should be returned to service repair. When the insertion part set up, do not touch the pole of bending, to avoid damage to internal parts.

Working Channel

Connect the adapter for forceps to the Luer-Lock adapter of the working channel. Open the sealing part, insert the biopsy forceps into instrument channel in the center of the rubber cover. The rubber cover must be penetrated at the first use.



Rubber cover of adaptor of instruments



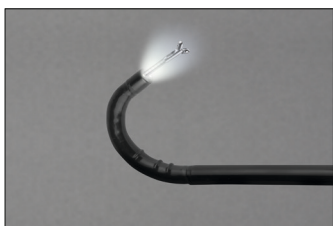
Note!

It should be used with the biopsy forceps supplied by Manufacturer. Do not use other brands and different specification instruments, to avoid any damage.



Note!

Do not insert any instruments when the distal end is bend to avoid damages at the inner parts.



Insert Instrument first, than move bending part.

Recording

- Press the “camera button” on the LCD or “button 1” on the operation part to take photos.
- Press the “video button” on the LCD or “button 2” to take the video. To stop recording the “video button” or “button 2” must be pushed a second time.
- To browse the photos or videos, please choose “menu” and check the files. Use the arrow keys to choose “My files” and confirm the choice with the enter key. After that you can either see images or videos. To leave the menu push the “Escape key”. Choose “exit” to return to live view.



Button 2
Button 1



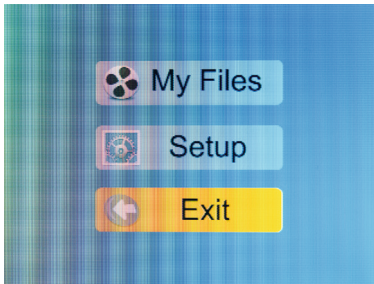
Arrow keys

ESC
Escape key

Menu Button

Video
Button

Camera
Button/
Enter Key



When using live video you can adjust contrast and brightness with the arrow keys.

White Balance

A white balance should be done before every use to assure color fidelity.



Button 3

The white balance is done with “button 3”. Keep a distance of about 1 cm from a white object and hold button 3 for a short time.

LCD Menu

Within the setup different settings can be adjusted.



Disassemble

Turn off the power of 3.5" LCD after using, switch off the adaptor of LCD and take it off from the videoendoscope. Be aware of this to avoid damages at the electronics.

Charge

You need to charge when low battery of the LCD. It takes about 10 hours to make fully charge. The red light will be off if the charging is finished. Pull out the power plug at this time.

6. CLEANING AND STERILIZATION

- Before and after each use, clean, disinfect and sterilize the videoendoscope.
- Before the disinfection or sterilization, EickView videoendoscopes should be cleaned carefully.
- When finish using the device, ensure the power is off, take off the 3.5" LCD from the videoendoscope. Please use alcohol or neutral detergent to make wipe disinfect for LCD.
- Do not wash SD card. If necessary, clean the SD card with alcohol cotton.
- Disinfected solution must be clearly indicated suitable for endoscopes.



Note!

Before cleaning, ensure the sealing of videoendoscope. Do not install the vent cover.

- After using the videoendoscope, please clean it immediately. Do not use any cloth or tools which can damage any surfaces of the device.
- There are two methods of disinfection for the EickView Videoendoscope: Gas disinfection and Liquid disinfection

Gas Disinfection

It should be checked carefully if the vent cover is installed well, to ensure the airiness of internal and external videoendoscope.



Install black Vent Cover



Note!

The black **vent cover MUST BE INSTALLED**. Otherwise it would damage videoendoscope due to the different of air pressure.

Liquid Disinfection

Recommend to use 2 % alkaline glutaraldehyde solution to liquid disinfection. Before each liquid disinfection it should be checked if the vent cover is removed, to ensure the sealing of videoendoscopes. Otherwise the disinfection solution will damage videoendoscope.



Note!

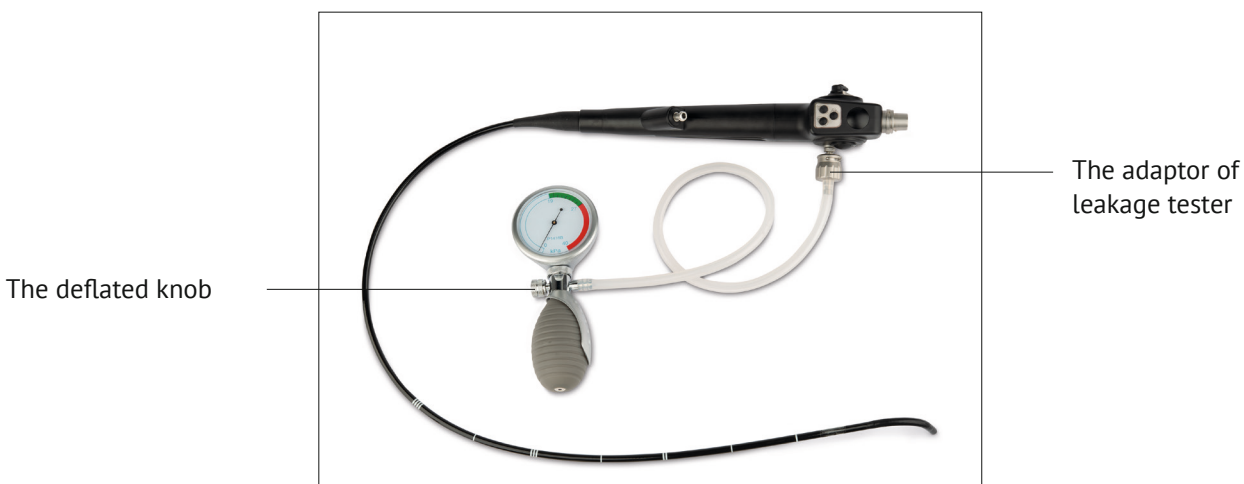
The **vent cover MUST BE REMOVED**. Otherwise it would damage videoendoscope.

7. STORAGE

- Storage condition see page 4 „Environment factors“.
- For long-term storage, the insertion part and bending section of videoendoscope should be placed straightly.
- For long-term storage, the battery of LCD should be charged every three months.
- For long-term storage, the vent cover should be covered.

8. LEAKAGE TEST

Connect the leakage tester to videoendoscope and rotate tightly. Screw down the deflated knob and press the ball. Immerse the videoendoscope in the asepsis solution, keep the pressure 22 KPa for 30 seconds and observe the bubbles in solution. If there is no bubble and the finger of pressure meter is changed within two, it is seal. If it is more than two, it is leakage somewhere. Do not use the videoendoscope again and contact service. After leakage testing, take out the videoendoscope from the solution. Screw off the deflated knob to the finger of presser meter to zero. Take off the leakage tester from videoscope. It would be damaged without deflation.



Note!

- Before each operation please do leakage testing. Please do not use the videoendoscope if there is any leakage.
- After each leakage testing, take out the videoendoscope from the solution, screw off the deflated knob. After deflating, take off the leakage testing. Otherwise the videoendoscope would be damaged.

9. TROUBLESHOOTING

No Image or no Illumination

- Check whether the power switch of 3.5" LCD is ON (turn the power switch to ON).
- Check the 3.5" LCD is installed well (re-install again).
- Check if the electricity of 3.5" LCD is low (charge the LCD).

No Recording, no White Balance and other Operations

- Check if the 3.5" LCD is installed well (re-install).
- Check if the button on the operation handle is in failure or not (if it does not work properly, please contact our company for repair).

Bending Failure

- The bending angle is not in place (send to the manufacturer or service).
- When bending resistance is too much (do not use it, and immediately contact service).
- If it can not be bent (do not use it, and immediately contact service).

Frozen Image

If the 3.5" LCD is frozen, turn off the power of LCD and after 10 seconds restart it again.

Air Leakage

If there is any air leakage, do not use it again, contact service.

If the device doesn't work after you do above corrective actions, please hand this device in clean and sterilized condition to service.

APPENDIX 1: SPECIFICATIONS

Specification	EickView 60S (Item No. 306009)	EickView 60 (Item No. 306011)	EickView 70 (Item No. 306010)	EickView 100E (Item No. 306166)	EickView 150E (Item No. 306164)
Working length	60 cm	60 cm	70 cm	100 cm	150 cm
External diameter	3.3 mm	4.2 mm	6.0 mm	8.0 mm	8.0 mm
Working channel	1.2 mm	1.3 mm	2.0 mm	2.8 mm	2.8 mm
Depth of the field	5 – 50 mm	5 – 80 mm	5 – 80 mm	5 – 80 mm	5 – 80 mm
Direction of view	0°				
Field of view of view	110°				
Directions	up 180° down 130°	up 180° down 130°	up 180° down 130°	up 150° down 130°	up 130° down 130°

APPENDIX 2: ACCESSORIES

Accessories	EickView 60S/60	EickView 70	EickView 100E	EickView 150E
Biopsy forceps	306311	306314	306319	306316
Biopsy forceps with spike	–	306420	306425	306429
Foreign body forceps	306211	306214	306219	306216
Rat tooth forceps	306431	306435	306430	306434
Grasping forceps	306340	306346	306341	306342
Basket retrieval device	306336 (25 mm Basket)	306332 (50 mm Basket)	306338 (50 mm Basket)	306338 (50 mm Basket)
Polypektomy snare	–	306426	306421	306423
Cytology brush	306415	306416	306416	306418
Cleaning brush	306444	306440	306445	306442
Suction catheters	306353 (not EickView 60S)	–	306354	306352
Working channel dual adaptor	30601001			
Air tightness tester	30601005			
Charger	E30601101			



EickView 60S/60/70/100E/150E

GERMANY

EICKEMEYER KG
Eltastraße 8
78532 Tuttlingen
T +49 7461 96 580 0
F +49 7461 96 580 90
info@eickemeyer.de
www.eickemeyer.de

POLAND

EICKEMEYER Sp. z o.o.
Al. Jana Pawła II 27
00-867 Warszawa
T +48 22 185 55 76
F +48 22 185 59 40
info@eickemeyer.pl
www.eickemeyer.pl

SWITZERLAND

EICKEMEYER AG
Sandgrube 29
9050 Appenzell
T +41 71 788 23 13
F +41 71 788 23 14
info@eickemeyer.ch
www.eickemeyer.ch

DENMARK

EICKEMEYER ApS
Lysbjergvej 6, Hammelev
6500 Vojens
T +45 7020 5019
F +45 7353 5019
info@eickemeyer.dk
www.eickemeyer.dk

ITALY

EICKEMEYER S.R.L.
Via G. Verdi, 8
65015 Montesilvano (PE)
T +39 0859 35 4078
F +39 0859 35 9471
info@eickemeyer.it
www.eickemeyer.it

UNITED KINGDOM

EICKEMEYER Ltd.
3 Windmill Business Village
Brooklands Close
Sunbury-on-Thames
Surrey, TW16 7DY
T +44 20 8891 2007
F +44 20 8891 2686
info@eickemeyer.co.uk
www.eickemeyer.co.uk

NETHERLANDS

EICKEMEYER B.V.
Bedrijventerrein Pavijen-West
Bellweg 44
4104 BJ Culemborg
T +31 345 58 9400
info@eickemeyer.nl
www.eickemeyer.nl

CANADA

EICKEMEYER Inc.
250 Briarhill Dr.
Stratford, Ont. Canada
N5A 7S2
T +1 519 273 5558
F +1 519 271 7114
info@eickemeyervet.ca
www.eickemeyervet.ca