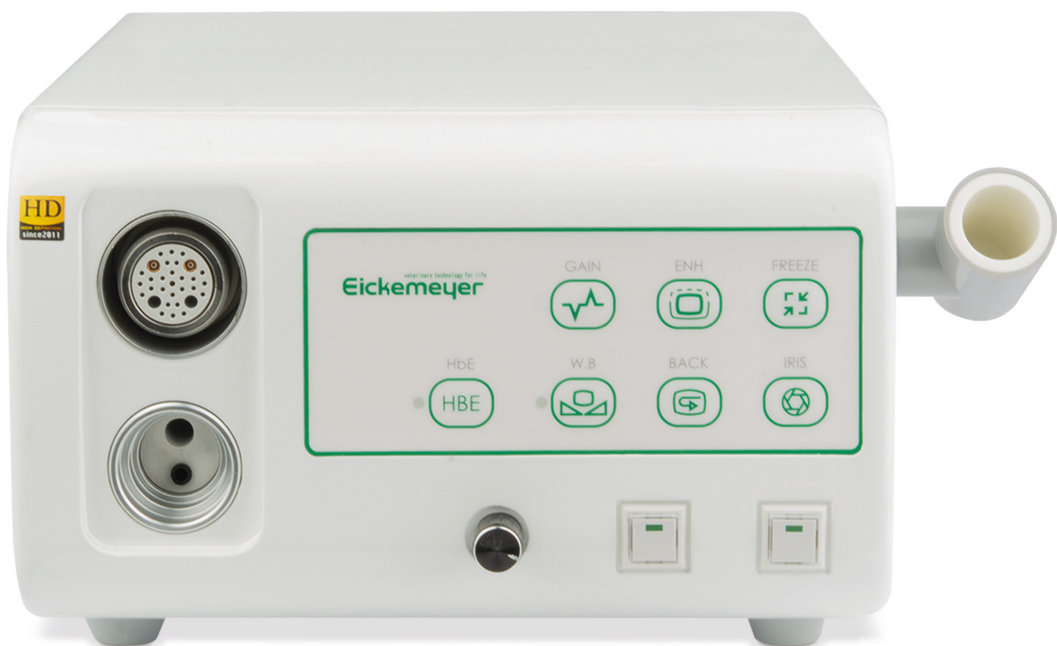


EICKVIEW HD VIDEO PROCESSOR

USER MANUAL



Item no. 306167
Version 2, 03/2021

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Eickemeyer®

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IMPORTANT INFORMATION – PLEASE READ BEFORE USE



Danger!

- Before use, thoroughly review this manual.
- Please keep all instruction manuals in a safe, accessible place.
- Have any questions or comments about this manual, contact EICKEMEYER®.

Compatibility

Important note! The video processors and endoscopes of production series “EickView” are not compatible with the video processors and endoscopes of production series “EickView HD”!

Repair and Modification

The EickView HD video processor does not contain any user-serviceable parts. Do not disassemble, modify or attempt to repair it; animal or operator injury, equipment damage and/or the failure to obtain the expected functionality can result. This instrument should be repaired by EICKEMEYER® authorized personnel only.

Signal Words

The following signal words are used throughout this manual:



Danger!

It indicates an imminently hazardous situation, if not be avoided, will result in death or serious injury.



Warning!

It indicates a potentially hazardous situation, if not be avoided, could result in death or serious injury.



Caution!

It indicates a potentially hazardous situation, if not be avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices or potential equipment damage.



Note!

It indicates additional helpful information.

Dangers, Warnings and Cautions

Follow the dangers, warnings and cautions below when handling the EickView HD.



Danger!

- As a type BF applied part, the endoscope connected to the EickView HD must never be applied directly to the heart of animal. Leakage current from the type BF applied part may be dangerous and cause ventricular fibrillation or seriously affect the cardiac function of the animal. Always adhere to the following points:
 - Never apply the endoscope connected to the EickView HD to the heart or any area near the heart.
 - Never allow an endo-therapy accessory or another endoscope applied to or near the heart to come in contact with the endoscope connected to the EickView HD.
- Strictly observe the following precautions. Failure to do so may place the animal and the medical personnel in danger:
 - When the instrument is used to examine an animal, do not allow metal parts of the endoscope or its accessories to touch metal parts of other system components.
 - Keep fluids away from all electrical equipment. If fluids are spilled on or into the unit, stop operation of the EickView HD immediately and contact EICKEMEYER®.
- Do not prepare, inspect or use the EickView HD with wet hands.
- Never install and operate the EickView HD in locations where:
 - The concentration of oxygen is high.
 - Oxidizing agent (such as nitrous oxide) or flammable anesthetics are present in the atmosphere.



Warning!

- The system should be established with equipment complied with relevant EMC* standards for safety reason.
- Equipment which does not comply with EMC standard may cause interference and its function or performance may be affected.
- Portable or mobile phones may influence the medical electrical equipment by their emitting energy.
- Please check thoroughly to make sure there is no interference or collision between the patient and other equipment.
- The cables and accessories that do not conform to the equipment specifications shall not be used, as they may increase the electromagnetic radiation of equipment or systems and reduce the interference immunity of the equipment against electromagnetic interference.
- The equipment cannot be used with life support equipment, and the other equipment that have serious impact on the lives of patients, or cannot be used with the treatment effect of other equipment or low current measurement or treatment equipment in the same room.
- To avoid the risk of electric shock, the equipment must only be connected to a supply mains with protective earth.
















* Electromagnetic compatibility



Caution!

- Do not touch the electrical contacts inside the connectors of the EickView HD.
- Do not connect or disconnect the light guide connector while the EickView HD is turned ON. This action may destroy the endoscope.
- When the instrument is used with other non-medical auxiliary equipment, such as video recorder or printer, the isolated transformer or insulating socket must be used to ensure the safety.
- Do not use a sharp or hard object to press the buttons on the front panel. This may damage the buttons.
- Avoid applying excessive force to the connectors, as this may damage the instrument.

LABELS AND SYMBOLS

Symbol	Description
	Category tags: BF type class I
	Ground terminal
	Mandatory for reading instructions for use
	Potential equalization terminal
	Catalogue number
	Consult instructions for use
	Manufacturer
	Date of manufacture
	Keep away from rain
	Use-by date
	Protect from heat and radioactive source
	Serial number
	Fragile – handle with care
	Stack up
	Temperature limit

1. INTENDED USE

The EickView HD video processor has been designed to be used with EICKEMEYER® veterinary endoscopes, for endoscope diagnosis, treatment and video observation. Do not use the EickView HD video processor for any purpose other than its intended use.

User qualifications

The operator of this instrument must be a trained and qualified veterinarian.

2. PACKAGE CONTENTS & TECHNICAL DATA



Note!

Match all items in the package with the components shown below. Inspect each item for damage. If a component is missing or damaged, please contact EICKEMEYER®.

2.1 Package Contents

- EickView HD video processor 1 pc.
- Monitor cable (DVI – DVI) 1 pc.
- S-video cable (Y/C) 1 pc.
- Power cord 1 pc.
- Fuse (2.5 A) 5 pcs.
- Connector cable (USB) 1 pc.
- White balance cap 1 pc.
- Disc with drivers and software in a case 1 pc.
- USB drive 16 GB 1 pc.
- Instruction manual 1 pc

2.2 Technical Data



Note!

Only a veterinary video endoscope may be connected to the EickView HD video processor.

Item	Specification	Unit
Power supply	Voltage	~ 230 V
	Frequency	50 Hz
	Consumption electric power	250 VA
	Fuse rating	2.5 A, 250 V
Size	Length	360 mm
	Width	300 mm
	Hight	160 mm
Pump	Air flow volume	≥ 7 l/min
	Air pressure of the pump	40 – 90 kPa
Light source	Luminous flux	400 lm
	Color temperature	3,000 ~ 7,000 K

Item	Specification	Unit
Operating environment	Ambient temperature	+5 to +40 °C
	Relative humidity	30 – 80 %
	Atmospheric pressure	700 – 1,060 hPa
System requirements	CPU	Min. Intel i3 Dual Core 2.8 GHz
	RAM	2 GB or higher
	Operating system	Windows® XP/Vista/7/8/8.1/10 (32/64-Bit)
	Connection	1x USB 3.0-Port (not backwards compatible)

3. KEYS AND CONNECTORS

3.1 Front Panel

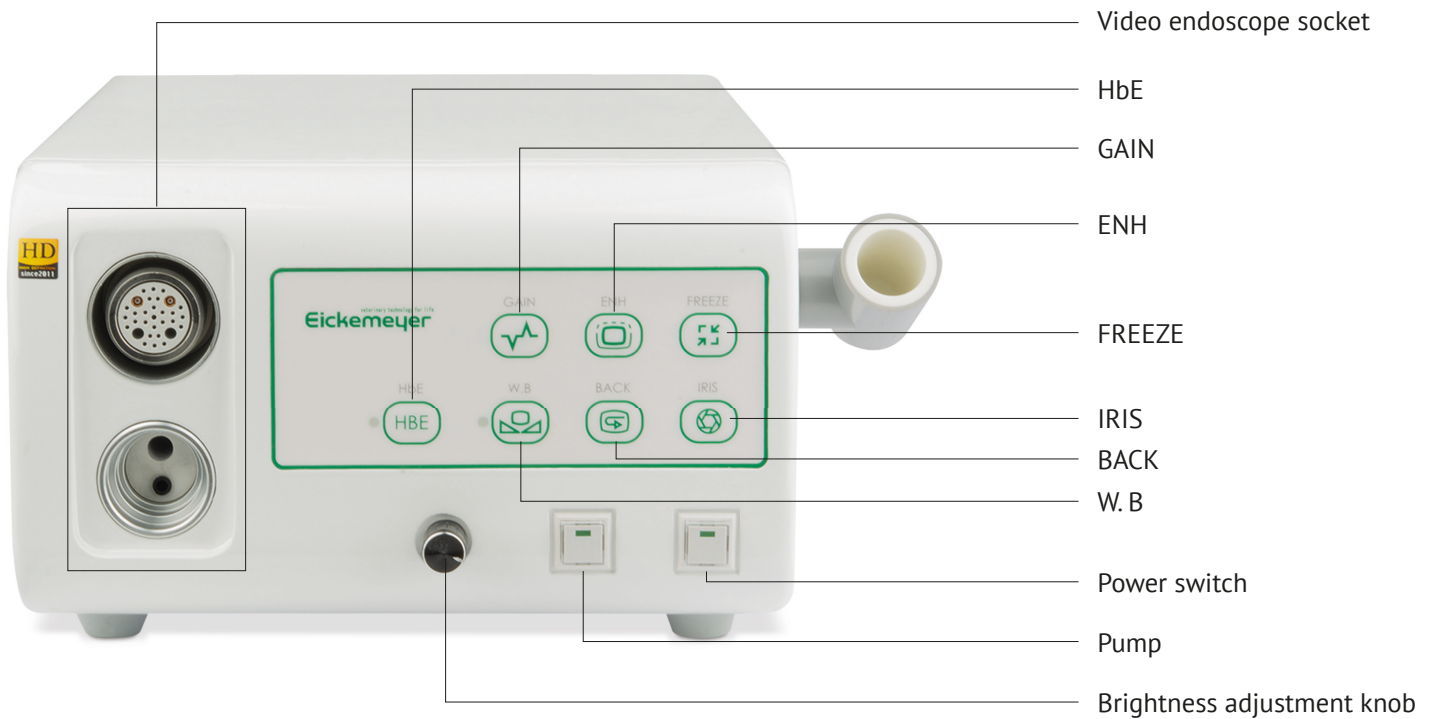


Figure 1

3.2 Rear Panel



Figure 2

- USB1: Still image capture
- USB2: Connection to computer

4. INSTALLATION OF THE EICKVIEW HD

4.1 Setup of the EickView HD

1. Place the EickView HD on a flat and stable surface.
2. Make sure the device is in the off mode.
3. Connect the video processor to a suitable monitor with the DVI cable OR
Connect the video processor to a suitable computer with the USB cable.
4. Insert the video endoscope into the video endoscope socket (Figure 3) until it snaps into place.
5. Connect the power cord to the power connector of the video processor.
6. Connect the power cord to a suitable power supply.



Figure 3



Caution!

- Turn off all system components before connecting them. Use only suitable cables. Otherwise, equipment damage or malfunction may occur.
- If non-medical electrical accessories are used, connect the power cord before connecting to the EickView HD via an isolation transformer. Failure to do so may result in an electric shock, burns and/or fire.
- Use the EickView HD only under the conditions described in chapter 2.2. Otherwise, malfunctions, impaired safety and/or property damage may occur.
- The power cord must not be bent, pulled, twisted or squeezed.
- Read the operating instructions and install the device as follows:
 - Do not place devices on the top of the EickView HD. Otherwise, the device may be damaged.
 - Keep the air intake of the EickView HD clean. Clean the air intake when it is covered with dust. Blockages can cause overheating and equipment damage.
 - Do not install the EickView HD near a source of strong electromagnetic radiation (microwave treatment equipment, short wave treatment equipment, MRI, etc.). Otherwise, the EickView HD may malfunction.
 - Before connecting the video endoscope to the EickView HD, make sure it is completely dry. Otherwise, an electric shock or device damage may occur.



Danger!

- Connect the power plug of the power cord directly to a grounded wall mains outlet. It can cause an electric shock and/or fire, if the EickView HD is not grounded properly.



Warning!

- Do not allow the power cord to become wet. Otherwise, it may cause electric shock.
- Make sure the electrical capacity of the power source is sufficient. Otherwise, malfunction of equipment can also result.
- User must provide a stable power supply. Strong fluctuations in power supply must be regulated with power regulator or a UPS power.

4.2 Software Installation



Note!

- Follow the steps to install the software before connecting the video processor to the computer:
 1. Insert the supplied driver and software installation disc into the DVDROM drive.
 2. Locate and run the setup application (Setup.exe). This file is located in the main directory.
If you use the supplied software installation disc, the software may start automatically.
 3. The driver installer begins. If a Windows® Security dialog box appears, click “Run” or “Install this driver software anyway” to continue.
 4. The installation wizard will guide you through the steps for the entire driver and Software installation. You will be prompted several times to complete the installation process to confirm and continue. Follow the on-screen prompts to view the Complete software installation.
 5. When prompted, click “Finish”.

The computer must be restarted after installation.

5. OPERATION

The operator of the EickView HD must be a veterinarian who has received sufficient training in clinical endoscopic technique. This guide describes only basic operating instructions and precautions for operating the EickView HD.



Warning!

- Stop the examination immediately if you notice a malfunction in a function. Follow the procedures below. Using a defective EickView HD can cause injury.
- If the endoscopic image disappears or the image cannot be restored, turn off the EickView HD and wait about 10 seconds. Then turn it on again.
- If another anomaly occurs or is suspected, immediately stop using the device and slowly pull the endoscope out of the animal. Follow the instructions in the operating instructions of the endoscope. Then see “Troubleshooting” and follow the corrective actions described. If the problem cannot be resolved, contact EICKEMEYER®.
- Do not leave the examination light illuminated by the endoscope before and/or after the examination. Otherwise, the distal end of the endoscope may overheat and cause burns to the operator and/or the animal.
- Do not use the EickView HD in locations subject to direct electromagnetic radiation. This can lead to malfunction (for example, microwave treatment device, short wave treatment device, MRI or electromagnetic radiation from radios).
- When the EickView HD is turned on, do not block the machine’s ventilation holes to ensure a smooth flow of air.



Note!

Before starting an exam, check out all features of the EickView HD below to avoid unnecessary patient anesthesia.

5.1 Before Starting Up

Make sure the power cord is securely plugged into the wall outlet and power inlet of the EickView HD.

Make sure the monitor cable is firmly connected to the EickView HD and monitor.

The monitor must be switched on and DVI must be selected as the signal source.

Make sure the USB cable is connected to the EickView HD and the computer.

The software must be started and DVI must be selected as the signal source.

- Press and hold the white balance button on the front panel for about one second (see Figure 6). The OSD indicates the end of the setting.

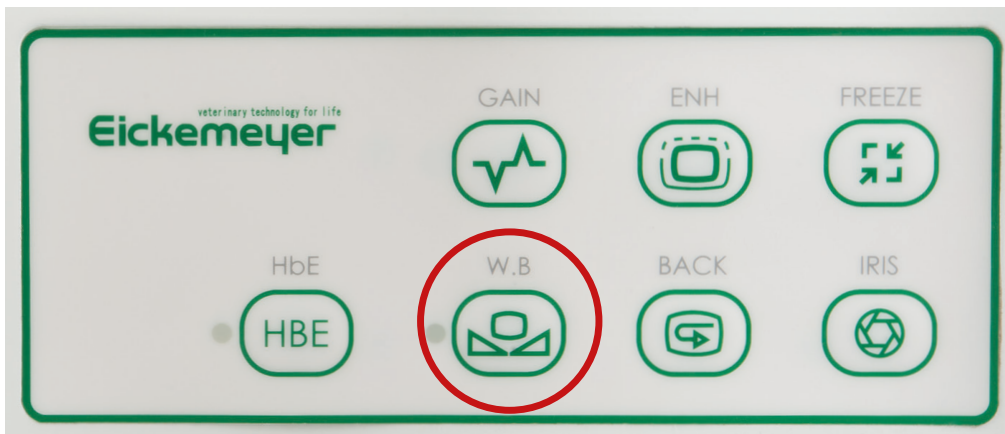


Figure 6

5.4 IRIS Button

The IRIS mode is a setting that affects the photosensitivity of the camera chip.

The IRIS mode of the EickView HD can be switched between the IRIS mode “Average” and “Peak” with the IRIS button. The current status is displayed in the OSD.

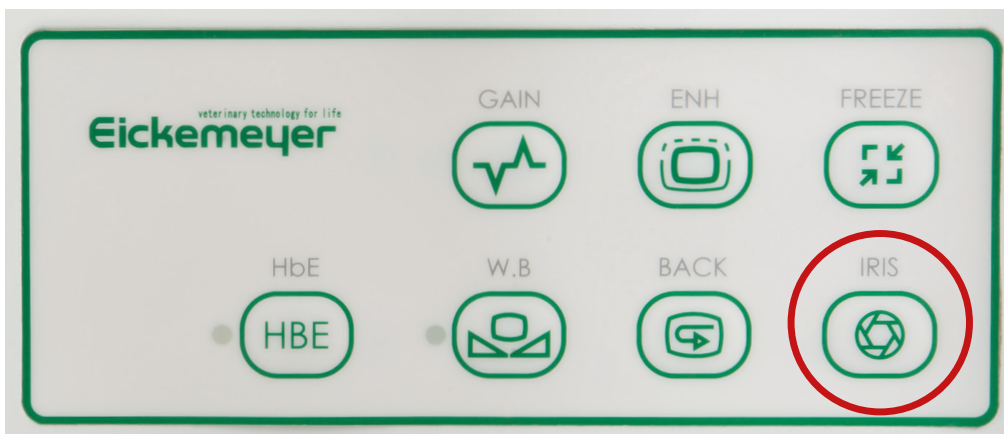


Figure 7

5.5 ENH Button

The EickView HD can deliver an image with edge enhancement. Edge enhancement is an image processing technique that electronically sharpens the edges of an image.

Press the “ENH” button to adjust the sharpness. You can choose between 4 different levels. The OSD on the monitor displays the current status (Enhance).

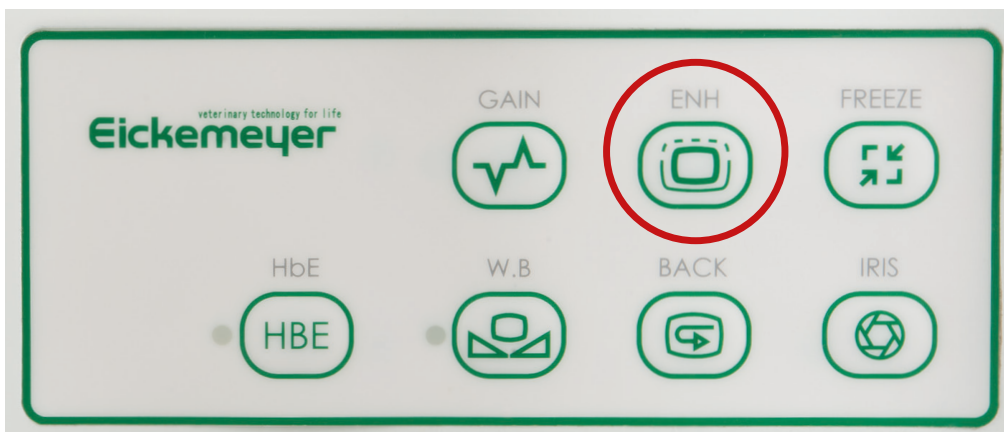


Figure 8

5.6 FFREEZE & BACK Button (Freeze Frame)

The endoscopic image can be frozen for closer inspection.



Warning!

- If there are problems with the still picture mode, press the power button to turn off the EickView HD. Wait 5 seconds and then press the power button to turn the EickView HD back on.
- If this does not resolve the problem, immediately turn off the device and remove the endoscope from the animal as described in the Endoscope User Guide.

1. Press the “FREEZE” button on the handle of the endoscope (see Figure 9) or briefly press the “FREEZE” button on the EickView HD keypad (see Figure 10).



Figure 9

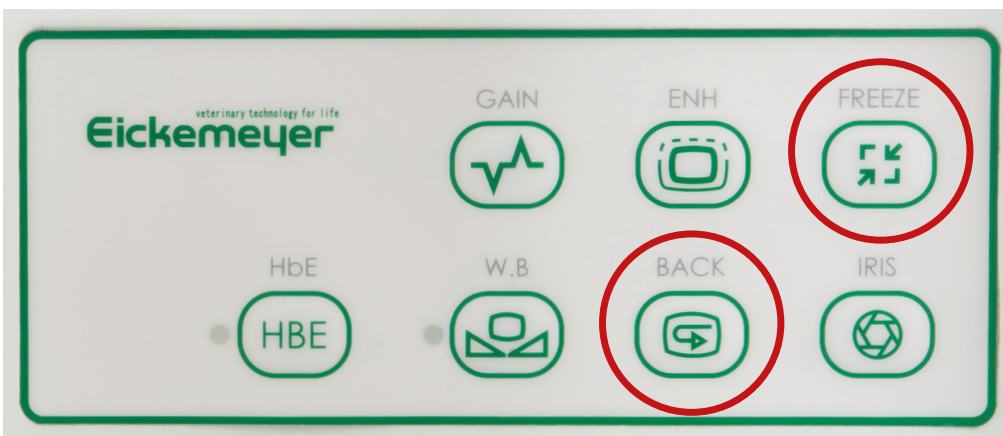


Figure 10

2. Press the “BACK” button (see Figure 10) on the keypad to display the still image frame by frame on the screen. A maximum of 32 still images are stored on the EickView HD.
3. Press the “FREEZE” button on the handle or press the “BACK” button on the keypad again to restore the real-time image.



Note!

When a USB storage device is connected to the video processor, the still image is automatically transferred to the storage medium. This process is acknowledged in the OSD with the note “USB BUSY”. If no storage medium is connected or faulty, the message “NO USB” appears. If the memory capacity is less than 10 MB, “NO USB” is displayed.

5.7 Brightness Regulation

Turn the knob as needed to adjust the brightness of the light.
Turn the knob clockwise to increase the light intensity.
Counterclockwise decreases the light output.



Figure 11

5.8 GAIN Button

In addition to the brightness control, the GAIN button offers the possibility to adjust the endoscope image in 4 different brightness levels. The gain level (AGC) is displayed in the OSD.

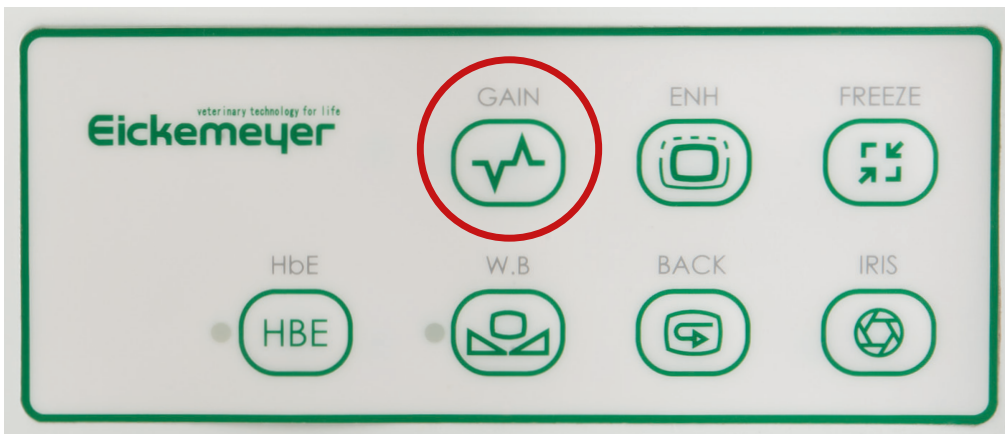


Figure 12

5.9 HbE Button

The “HbE” button activates the hemoglobin enhancement. This is an image processing to improve the appearance of vessels in the endoscope image.

The status of the HbE mode is displayed both in the OSD and on the keypad (LED).

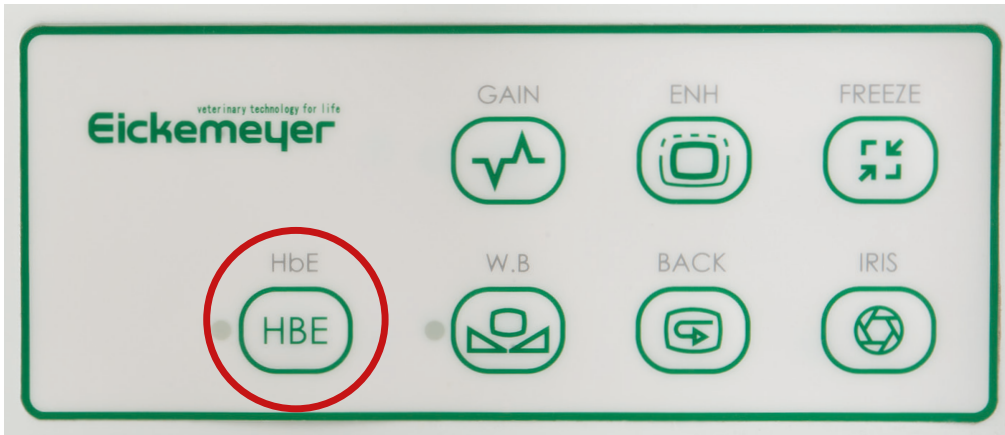


Figure 13

5.10 Pump

Press the switch for the pump to turn it on. A glowing LED indicates operation and the pump noise is clearly audible. The pump generates the necessary pressure to inflate hollow organs by means of the attached endoscope or to flush the camera lens.

5.11 Turn off the EickView HD

Before turning off the EickView HD, turn the brightness control counterclockwise until the light source is completely extinguished. If the pump is still on, switch it off.

Press the power button to turn off the EickView HD.



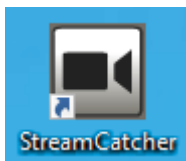
Note!

If the EickView HD is not going to be used for a long time, unplug the power cord.

6. SOFTWARE

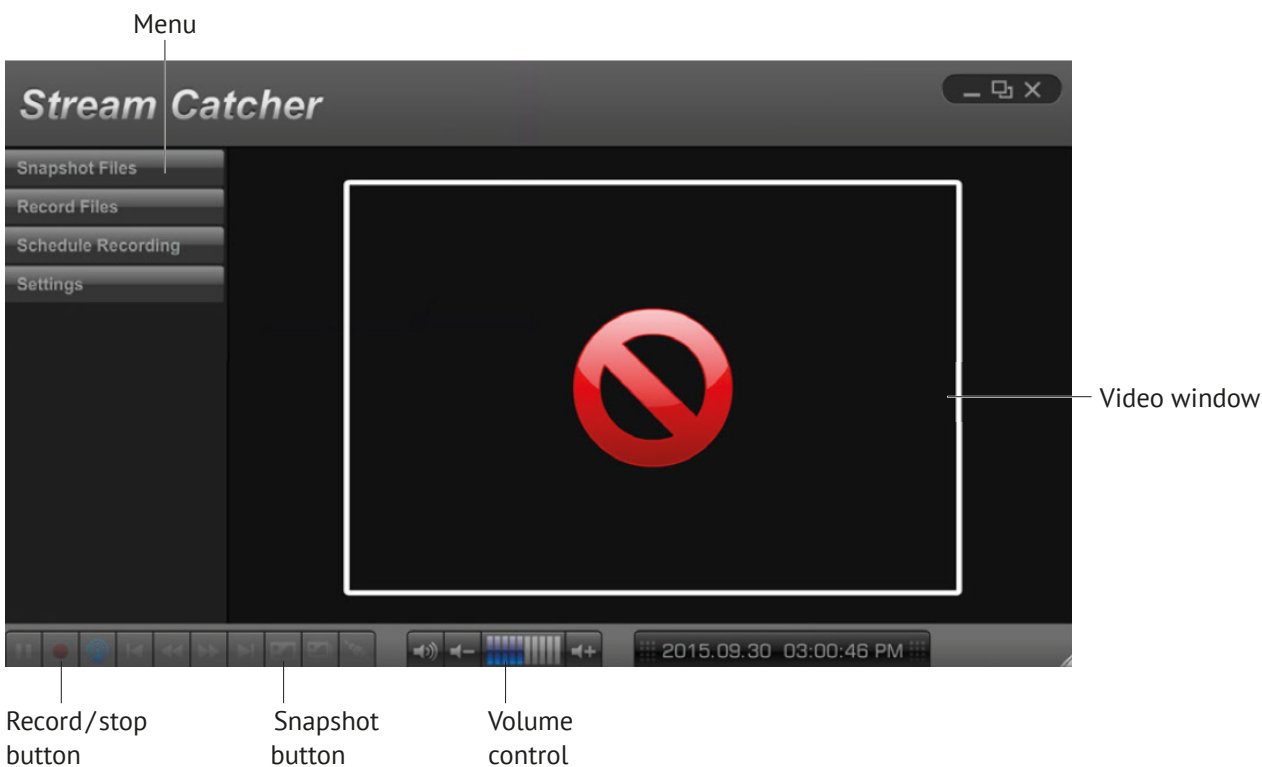
6.1 Launch Application

Double-click the “StreamCatcher” icon on the desktop to launch the video capture application. This will bring up the main menu screen that contains the video preview window and recording controls. Additional options and configurations can be accessed through the Main Menu (Please see chapter 6.4 and later).



Note!

If you have a video source connected but are not able to view anything in the video window, go to the “Settings” section first to make sure the device is configured properly.

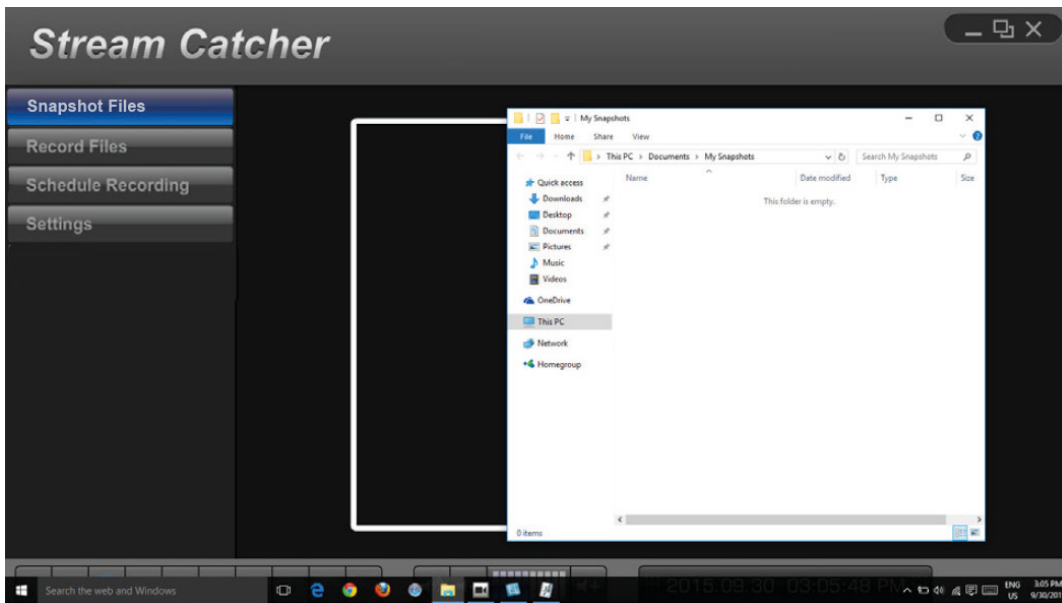


* Screenshots are for reference only.

Manually recording video can be done by simply pressing the “Record” button from the control menu along the bottom of the Stream Catcher window. The frame around the video window will turn red while recording. When you would like to stop recording, press the “Stop” button. The “Snapshot” button allows you to take screen capture of the video stream.

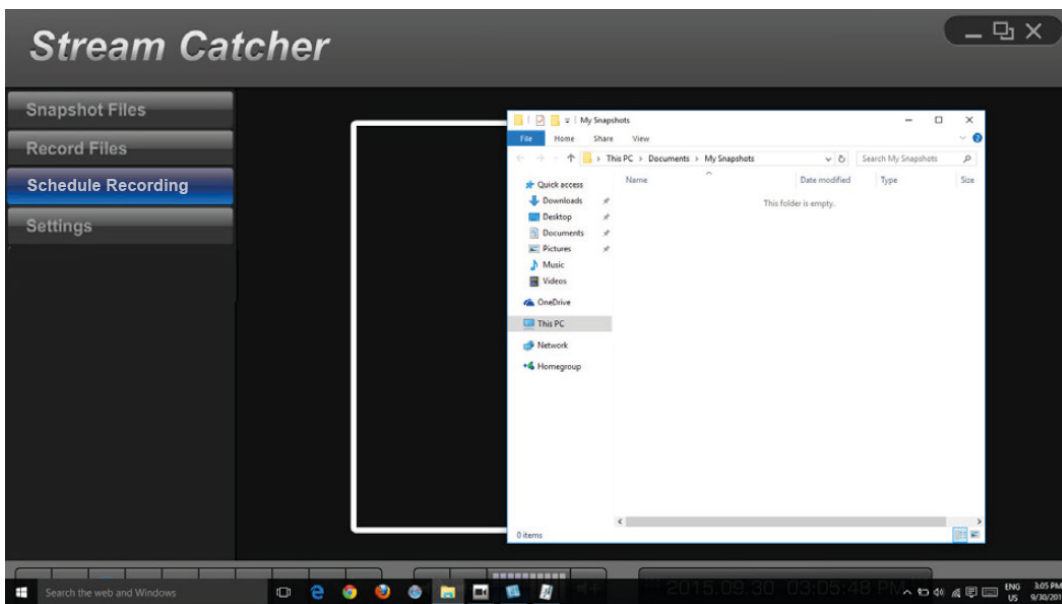
6.2 Snapshot Files

Clicking this button will open the folder location where all of the snapshot files are saved in Windows®.



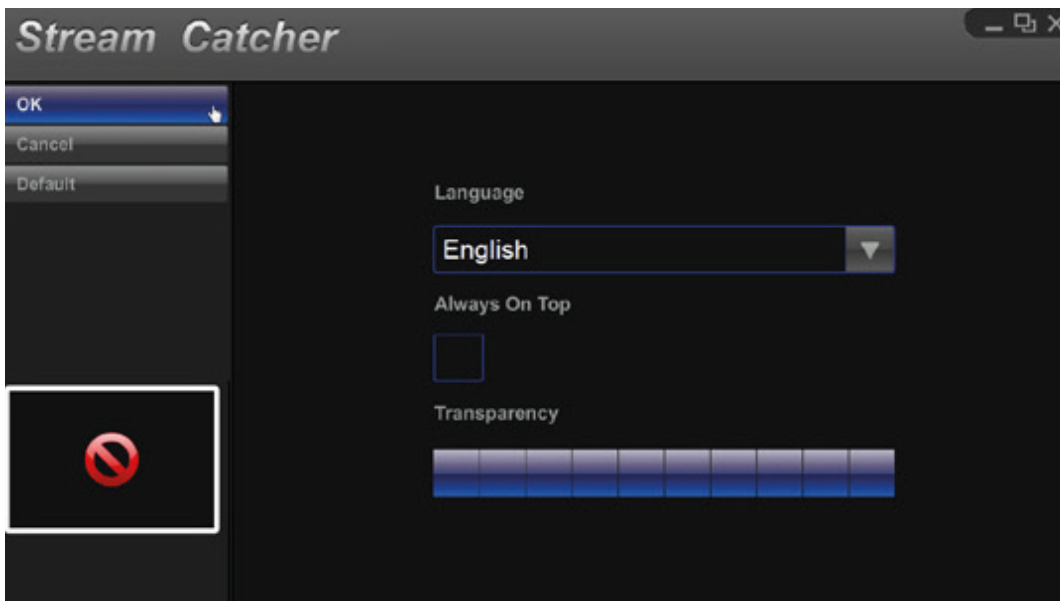
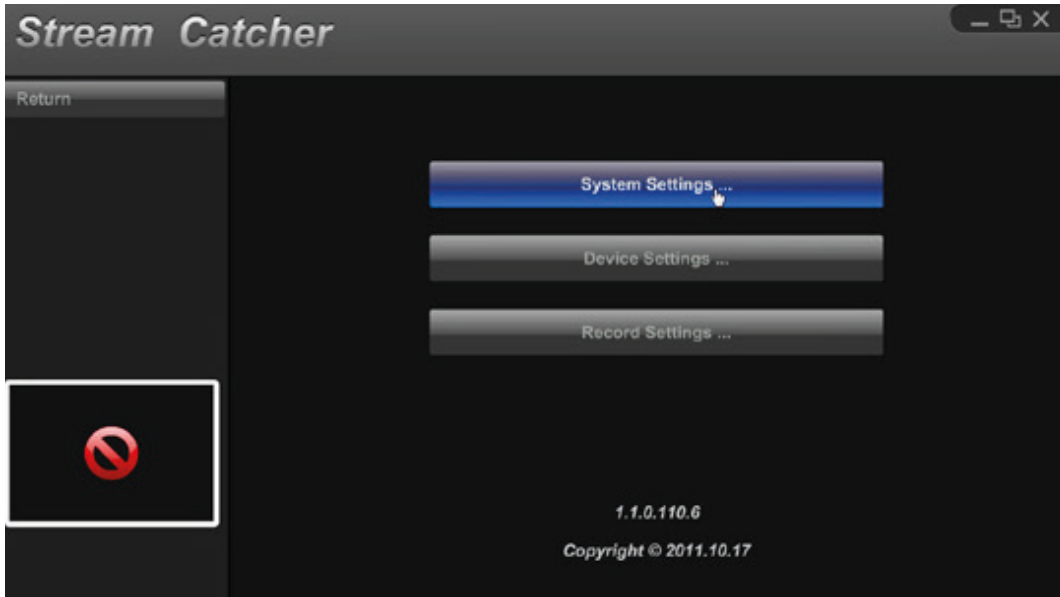
6.3 Record Files

Clicking this button will open the folder location where all of the recorded video files are saved in Windows®.



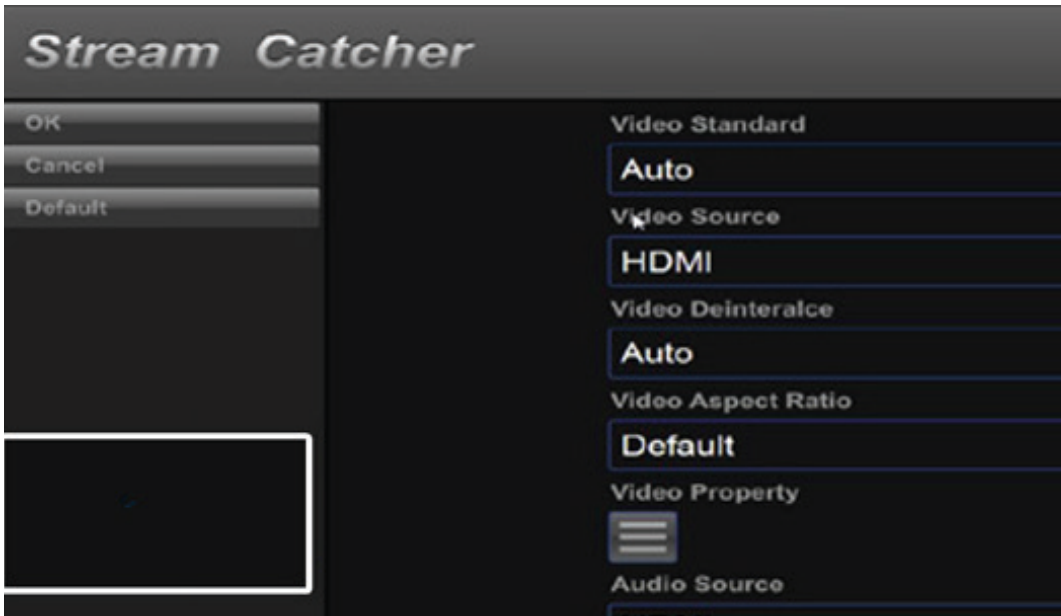
6.4 Settings

The Settings menu is broken into different sections for configuring various aspects of the software. System Settings contains configuration options for the user interface.



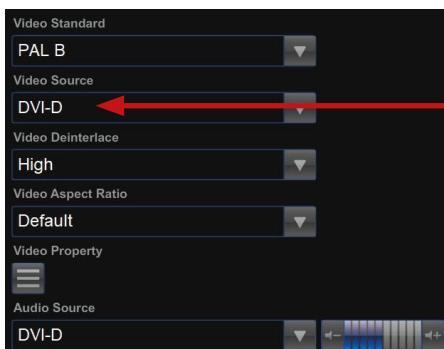
6.5 Device Settings

The Device Settings contains configuration options for the video capture hardware. Video and audio input source (HDMI, component, DVI/VGA), video system (NTSC/PAL), aspect ratio and video properties (sharpness, contrast, saturation, hue, brightness) can all be adjusted from this menu.



Note!

To run the software with the EickView HD DVI-D must be selected as signal source.



6.6 Record Settings

Contains settings related to video recording and snapshots. The location to save recorded video files as well as recording quality can be configured. The location to save the snapshot images and file format (JPG, BMP) is also set here.



7. CLEANING, STORAGE AND DISPOSAL

7.1 Cleaning



Warning!

- Do not spill water into the machine. If liquid has entered the unit, dry it immediately and make sure that there is no water before use.
- Do not clean the endoscope connection socket or the mains input. Cleaning may damage the EickView HD.
- After wiping, thoroughly dry the EickView HD before using it again. When used in the wet state, there is a risk of electric shock.
- If the product has quality problems, please contact EICKEMEYER®. The Company is not responsible for any problems that may arise as a result of disassembling the EickView HD by the user.

The EickView HD should be cleaned immediately after use and routinely as follows:

1. Turn off the EickView HD and unplug the power cord.
2. Wipe EickView HD with a soft cloth moistened with 70 % ethyl or isopropyl alcohol to remove dust, dirt, and non-animal residues.
3. Before use, make sure the EickView HD is completely dry.

7.2 Storage

Store the device in accordance with Chapter 2.2 “Operating environment”:

1. Turn off the EickView HD and unplug the power cord
2. Disconnect any additional devices connected to the EickView HD.
3. Store the unit in a horizontal position at room temperature in a clean, dry and stable place.

7.3 Disposal

Disposal of the EickView HD should comply with national and local laws and regulations.

8. TROUBLESHOOTING

If the EickView HD is visibly damaged, does not work as expected, or detects abnormalities during inspection, do not use the EickView HD. Contact EICKEMEYER®.

Some issues that appear to be malfunctioning may be resolved by reference to Section 8.1 “Troubleshooting Guide”. If the following action does not resolve the problem, stop using the EickView HD and send it to EICKEMEYER® for repair.



Warning!

Never use the EickView HD if there is a suspicion of an anomaly. The animal or the operator can be seriously or fatally injured.

8.1 Troubleshooting Guide

The following table shows the possible causes of malfunctions. Other than the malfunctions listed in the following table must be repaired by EICKEMEYER®.

If maintenance is performed by someone other than EICKEMEYER® authorized personnel, accidents can occur. Have the EickView HD serviced according to the instructions in Section 8.2 “Return the EickView HD for repair”.



Warning!

If an anomaly is suspected, turn the EickView HD off and on again. If the abnormality can not be resolved, turn off the EickView HD and unplug the power cord to completely stop the flow of current.

Description of the Problem	Possible Reason	Solution
The endoscope cannot be connected to the EickView HD.	The endoscope is not compatible to the video processor.	Connect the correct endoscope (see Appendix A2).
The EickView HD cannot be turned on.	The power supply cable is not connected.	Connect the device to a power outlet as described.
	The power switch is not turned on.	Turn on the power switch.
	One or more fuses are defective.	Replace both fuses (see Appendix A1).
The endoscopic image does not appear on the monitor.	The signal source of the monitor is incorrect.	Set the correct signal source as described in the manual of the monitor.
	The endoscope is not connected (coloured stripes visible).	Connect an endoscope as described in this manual.
	The monitor cable is not connected.	Connect the monitor cable as described.
The endoscopic image does not appear on the computer.	The video processor is not turned on.	Turn on the video processor.
	No or the wrong signal source is set in the software.	Set the correct signal source (see Chapter 6.5 Software).
	The endoscope is not connected (coloured stripes visible).	Connect an endoscope like described in this manual.
	The USB cable is not connected.	Connect the USB cable as described.
	The USB cable is not connected to an USB 3.0 port.	Connect the USB cable as described.
	The driver is installed incorrectly.	Install the driver again.
	The USB cable is defective.	Replace the USB cable.
The video capture card is defective.	Contact EICKEMEYER® support.	

Description of the Problem	Possible Reason	Solution
The endoscopic image is too dark.	The wrong IRIS mode is chosen.	Choose the correct mode.
	The monitor brightness setting is improper.	Set a proper brightness as described in the monitor's manual.
	The monitor contrast setting is improper.	Set a proper contrast as described in the monitor's manual.
	The light source is set too dark.	Increase the light intensity.
	The GAIN level is set too low.	Increase the GAIN level.
The endoscopic image is too bright.	The wrong IRIS mode is chosen.	Choose the correct mode.
	The light source is set too bright.	Reduce the light intensity.
	The monitor contrast setting is improper.	Set a proper contrast as described in the monitor's manual.
	The monitor brightness setting is improper.	Set a proper brightness as described in the monitor's manual.
	The GAIN level is set too high.	Reduce the GAIN level.
The colour tone of the endoscopic image is unusual.	The colour tone of the screen is set improperly.	Set a proper colour tone.
	The HbE mode is chosen.	Deactivate the HbE mode.
	The white balance is incorrect.	Adjust the white balance.
	The monitor cable is connected incorrectly.	Connect the monitor cable correctly.
The image remains frozen.	The FREEZE switch is still set.	Press the FREEZE switch to go back to real-time image.
The image is drifting.	The monitor cable is connected incorrectly.	Connect the monitor cable correctly.
The image is vibrating.	There is a strong magnetic field near the monitor.	Remove the source of the magnetic field away from the monitor.

8.2 Return the EickView HD for Repair



Note!

- Repairs that are not performed by authorized personnel will void the warranty.
- If errors occur which could not be solved by the solutions in chapter 8.1, send the EickView HD to:

EICKEMEYER® – Medizintechnik für Tierärzte KG
 Eltastraße 4
 78532 Tuttlingen
 Germany

Also send a filled repair form with the device.

The repair form can be found at: www.eickemeyer.com/service

APPENDIX

A1 Changing the Fuse



Warning!

- Turn off the EickView HD and unplug the power cord before replacing the fuses. Otherwise, an electric shock may occur.
- Use only the fuses listed in the manual. Failure to do so may result in a malfunction, failure of the EickView HD, electric shock, or fire.

1. Turn off the video processor and unplug the power cord from the wall outlet. Pull the fuse box straight out and replace the fuses (see Figure 14).



Figure 14

2. Slide the box back into the EickView HD.
3. Plug in the power cord, press the power switch, and make sure the power light is on.



Warning!

If the EickView HD does not turn on after changing the fuse, remove the power cord and contact EICKEMEYER®.

A2 Difference between EickView/EickView HD

EickView

EickView HD



Figure 15



Figure 16

A3 Time Setup

Turn the video processor on and push the “IRIS” button for about 5 seconds. Push the “IRIS” button again to change between second, minute, hour, day, month and year. Push “ENH” and “BACK” to change the values. By pushing “IRIS” a long time again you exit the menu.

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