



KL-0870-10 K

Videoscope with Cleaning Function



Operating instructions
⚠ Read and understand before use!

EN



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1. READ AND UNDERSTAND FOR YOUR SAFETY



Read and understand these operating instructions **before using** the videoscope (*videoscope with cleaning function*), and observe all safety and warning instructions! Misuse can result in **DEATH** or **SEVERE INJURIES** ! These operating instructions are an integral part of the videoscope. Keep them at a safe place for future reference, and always pass them on to subsequent users of the glow plug tool! The videoscope complies with the recognised rules of technology as well as the relevant safety regulations!

1.1 Target group

These operating instructions are **exclusively** intended for skilled personnel in specialised motor vehicle workshops!

The videoscope **may only be** used by skilled personnel in specialised motor vehicle workshops who are familiar with the basic regulations on work safety and accident prevention!

❗ **Never** allow unauthorised, inexperienced persons, minors and children, or persons with limited physical, sensory, and mental abilities to use the videoscope!

1.2 Obligations of the owner

Pursuant to the German Ordinance on Industrial Safety and Health (*BetrSichV*), employers are obliged to provide their employees with safe work equipment in accordance with the recognised rules of technology and the relevant safety regulations!

- ❗ The owner of the videoscope **must** ensure that **only** trained personnel in specialised vehicle workshops use the videoscope!
- ❗ The owner of the videoscope **must** ensure that the instructions for use are available to the user and that the user has completely read and understood the instructions for use **before** using the videoscope!
- ❗ The owner of the videoscope **must** ensure that the user is familiar with the basic regulations on work safety and accident prevention, and that the personal protective equipment is available to him!

1.3 Intended use

The videoscope ...

- ❗ **may only** be used for industrial applications on motor vehicles such as passenger cars, vans, commercial vehicles, buses, construction machinery and agricultural machinery!
- ❗ **may only** be used to locate and remove contamination in the heating or blower box, especially on the evaporator of an air-conditioning system!
- ❗ **may only** be used with non-flammable cleaning solutions!
- ❗ **may only** be used with GEDORE Automotive genuine spare parts and accessories!
- ❗ **may only** be used in the way described in these operating instructions!
- ⚠ Any other use can result in **DEATH** or **SEVERE INJURIES** !

1.4 Reasonably foreseeable misuse

The videoscope ...

- ❗ **must never** be used for medical purposes or in another way than intended!
- ❗ **must never** be filled and used with highly flammable cleaning solutions, liquids and gases!
- ❗ **must never be used** in explosive areas or immersed in highly flammable liquids and gases!
- ❗ **must never** be used with a bridged, modified, or removed safety device!
- ❗ **must never** be modified, converted, or used for other purposes without authorisation!
- ⚠ Use the videoscope **always** as intended. Any other use can result in **DEATH** or in **SEVERE INJURIES**!

1.5 Labelling of the warnings

Warnings warn of potential **hazards**. **Always** observe these warnings to avoid **DEATH** or **INJURIES**!

For better differentiation, warnings in these operating instructions are classified as follows:	
Warning sign	Meaning
 WARNING	Indicates a hazardous situation, which, if not avoided, could cause DEATH or SERIOUS INJURIES .
 CAUTION	Indicates a hazardous situation which, if not avoided, could cause MODERATE or MINOR INJURIES .
 ATTENTION	Indicates a situation which, if not avoided, could cause damage to the tool or an object in its vicinity.
	Note on important information and useful tips.

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1.6 Work environment

Only use the videoscope in a safe working environment and **never** expose it to extreme temperatures, direct sunlight, fire or extreme humidity and moisture!

- ✔ The workplace **must** be clean and tidy.
- ✔ The workplace **must** be sufficiently large and illuminated.
- ✔ The workplace **must** be on a solid and non-skidding floor.
- ✔ The workplace **must** be safeguarded against access of unauthorised persons.
- ✔ The workplace **must** be at room temperature between -10°C and +40°C.

1.7 Basic safety instructions and warnings

WARNING - Failure to observe this warning may result in an accident or death

When using the videoscope, **always** observe the following safety and warning instructions as well as measures to avoid **DEATH** or **SERIOUS INJURY** as well as property damage due to hazards, misuse, abuse and unsafe handling!

- ✔ Read and understand these operating instructions **before using** the videoscope and observe all safety and warning instructions for **safe use**!
- ✔ **Always** work with the videoscope in accordance with the basic regulations on work safety, accident prevention and environmental protection!
- ✔ **Never** use the videoscope for medical purposes or in another way than intended!
- ✔ **Always** use the videoscope as intended! **GEDORE Automotive GmbH** accepts no liability or warranty or guarantee claims for injuries and damage resulting from improper use or failure to observe the safety!
- ✔ **Before each use**, check the videoscope **carefully** for damage, loose parts, or unauthorised modifications. **Never** use it if you notice any such deficiencies!
- ✔ The videoscope may **only** be opened, checked and repaired by specially trained personnel at **GEDORE Automotive GmbH**!
- ✔ **Only** use original spare parts and accessories from **GEDORE Automotive GmbH** for the videoscope!
- ✔ **Always** observe the vehicle-specific manufacturer's specifications when working with the videoscope!

- ✔ It is **essential** to avoid dropping, hitting or knocking the videoscope! Place the videoscope securely against damage on a clean shelf or in the corresponding storage bag!
- ✔ **Never** use the videoscope when you are tired or under the influence of alcohol, drugs, or medication!
- ✔ **Before using** the videoscope, make sure that **no** unauthorised persons are in the immediate environment!
- ✔ **Always** keep the videoscope out of the reach of unauthorised, inexperienced and underage persons as well as children, or persons with limited physical, sensory and mental abilities!
- ✔ Electrical and electronic devices can cause a spark discharge. **Never** use the videoscope in areas where there is a risk of explosion and **never** immerse it in flammable liquids or gases, e.g. in a fuel tank!
- ✔ **Never** use the videoscope near uninsulated and live cables and parts!
- ✔ **Always** observe the vehicle-specific application sequences in the vehicle manufacturer's repair guide.
- ✔ Make **absolutely** sure that the correct mains voltage is applied before plugging in the power supply unit of the videoscope. You will find more information on the type plate on the power supply unit.
- ✔ **Do not** leave the power supply unit unattended during operation and **always** unplug it from the socket after use and during thunderstorms!
- ✔ The videoscope has a permanently installed lithium-polymer accumulator (rechargeable battery). For charging, use **only** the enclosed charging cable with power supply unit or an equivalent charger that meets the same specifications and limits!
- ✔ If you notice that the videoscope becomes extremely hot, e.g. during the charging process, disconnect the power supply **immediately** and do not continue to use it **under any circumstances**, as there is a risk of explosion and injury from escaping gases or liquids!
- ✔ **Avoid** direct sunlight on the videoscope for a longer period of time and keep it away from heat and fire!
- ✔ **Never** fill the videoscope with highly flammable cleaning solutions and other liquids!
- ✔ **Always** read the manufacturer's product information and warnings before using cleaning solutions and observe them during use!
- ✔ Always use **biocidal** cleaning solutions carefully and safely according to the manufacturer's instructions!
- ✔ **Never** look into the LED illumination on the videoscope for a longer period of time!
- ✔ After using the videoscope, replace the enclosed silicone protective cap to protect the camera!
- ✔ **Never** remove the SD card while taking photos and videos, this can lead to data loss!
- ✔ The camera lens on the videoscope is **IP67** dust/water protected and may be immersed in water for short periods. The remaining components are not waterproof, so avoid contact with water **at all costs** and **never** use this with wet hands!
- ✔ **Do not bend** the camera cable, data cable or charging cable on the videoscope as this could damage them!
- ✔ **Always** wear your personal protective equipment, e.g. safety goggles, protective gloves, safety shoes, if necessary!
- ✔ This electrical or electronic device contains a lithium-polymer accumulator (rechargeable battery). Please note that when returning the videoscope to a collection point, it must only be discharged and the battery terminals must be protected against short circuits!
- ✔ Interrupt your work **immediately** if you are unsure about using the videoscope and contact **GEDORE Automotive GmbH, if necessary!**
- ✔ Technical changes and errors reserved.

1.8 Care / storage

CAUTION

Improper care and storage can damage the videoscope.

- ✔ Therefore, **never** immerse the videoscope in water, solvents, or other cleaning liquids.
- ✔ After use, clean the videoscope with a dry and clean cleaning cloth.
- ✔ **Only** clean the lens on the videoscope with the microfibre cloth provided.
- ✔ Store the videoscope and the operating instructions at a dry and clean place.

1.9 Repair

⚠ WARNING

Improper repair of the videoscope can result in **DEATH** or **SEVERE INJURIES**.

- If damage, loose parts or unauthorised modifications have been found on the videoscope, it must no longer be used for safety reasons!
 - Repair may only be carried out by specially trained personnel from **GEDORE Automotive GmbH**!
 - **Only** use original spare parts and accessories from **GEDORE Automotive GmbH** for the videoscope!
- If necessary, contact us, the **GEDORE Automotive GmbH** for a professional inspection and repair of the videoscope.

1.10 Environmentally friendly disposal

Dispose of the videoscope and its packaging material in an environmentally compatible way in accordance with the legal requirements. If necessary, ask your local authorities about environmentally friendly disposal options.

1.11 Duty to provide information pursuant to the Electrical and Electronic Equipment Act (*ElektroG*)

Electrical and electronic equipment contains harmful substances and valuable resources. Therefore, do not dispose of defective appliances in household waste, but recycle them separately. This is indicated by the symbol of the crossed-out dustbin on the appliance. If your old device cannot be reused, you are welcome to send it to us at the following address:

GEDORE Automotive GmbH
Breslauer Straße 41
78166 Donaueschingen



We will then take over the complete take-back and professional disposal via our certified waste disposal companies. The device contains a lithium-polymer accumulator (rechargeable battery). This cannot be removed by the end user and will be disposed of separately by our disposal partner. Please also note that as a commercial end user you are obliged to completely delete all personal data before handing in the old device.

1.12 Duty to provide information pursuant to the Battery Act (*BattG*)

Please note that our electrical and electronic equipment contains batteries. Batteries must not be disposed of in household waste. This is indicated by the symbol of the crossed-out dustbin on the appliance. As the end user, you are legally obliged to return them. Batteries may contain harmful substances that can damage the environment or health if not stored or disposed of properly. Used batteries can be returned to established collection points, e.g. municipal collection points, retailers or to us at **GEDORE Automotive GmbH**. Used batteries may only be returned to collection points when discharged and with the battery terminals protected against short-circuits!

The symbols on the batteries have the following meaning:

Crossed-out dustbin = The battery must not be disposed of in household waste.

Pb = Battery contains more than 0.004% lead by mass.

Cd = Battery contains more than 0.002% cadmium by mass.

Hg = Battery contains more than 0.0005% mercury by mass.



2. PRODUCT DESCRIPTION

⚠ WARNING

Never use the videoscope for medical purposes or in another way than intended!

2.1 KL-0870-10 K Videoscope with cleaning function

Universally applicable on cars, vans, commercial vehicles, buses, construction machinery, agricultural machinery.

With the special videoscope, contamination, e.g. in the heating or blower box, can be quickly localised and unerringly removed via the powerful cleaning nozzle.

In the process, the laterally mounted camera unit with LED lighting and cleaning nozzle make it possible to reach even extremely hard-to-reach places, e.g. the evaporator of the air conditioning system.

By using special cleaning solutions, even stubborn deposits and odours caused by fungi, viruses and bacteria can be effectively removed and disinfected down to the last corner.

- Slim camera unit Ø 15x23mm with cleaning nozzle
- High-resolution CMOS image sensor with 720x625 pixels
- Camera unit IP67 dust and water protected
- 3-stage adjustable camera LED illumination
- High radius of movement due to semi-rigid flexible tube 800mm
- Convenient one-hand operation with trigger for cleaning nozzle
- Standard compressed air connection with max. 6 - 8 bar
- 250ml container for cleaning fluids
- Live viewing via 3.5" colour display
- Display with zoom, rotate and mirror function
- Professional photo and video documentation with date/time stamp
- High storage capacity with removable 8 GB microSD card
- Direct playback of photos and videos on the display
- Clear menu navigation in 12 different languages
- Fast data transfer via USB-C interface
- Automatic switch-off function to save energy
- Long runtime with 3.7V lithium-polymer battery with 1650mAh

2.2 Specifications

Camera unit with LED lighting and cleaning nozzle:

Dimensions:	Ø15x23mm
Alignment:	Lateral (90°)
Lighting:	2x SMD LED
Protection class:	IP67
Recording sensor:	Digital CMOS / 720x625 pixels
Photo format:	1920x1080 (.jpg)
Video format:	640x480 / 25 fps (.avi)
Angle of view:	80°
Focal length:	30 - 80mm
Length flexible tube:	800mm

Display unit with handle and container:

Display:	TFT 3.5" (89mm)
USB interface:	USB-C
Memory:	8 GB microSD card
Battery:	3.7 V lithium polymer battery (1650mAh)
Max. permissible charging voltage/current:	5V / 2A
Container capacity:	250ml
Operating pressure:	max. 6- 8 bar
Temperature range:	-10 up to +60°C



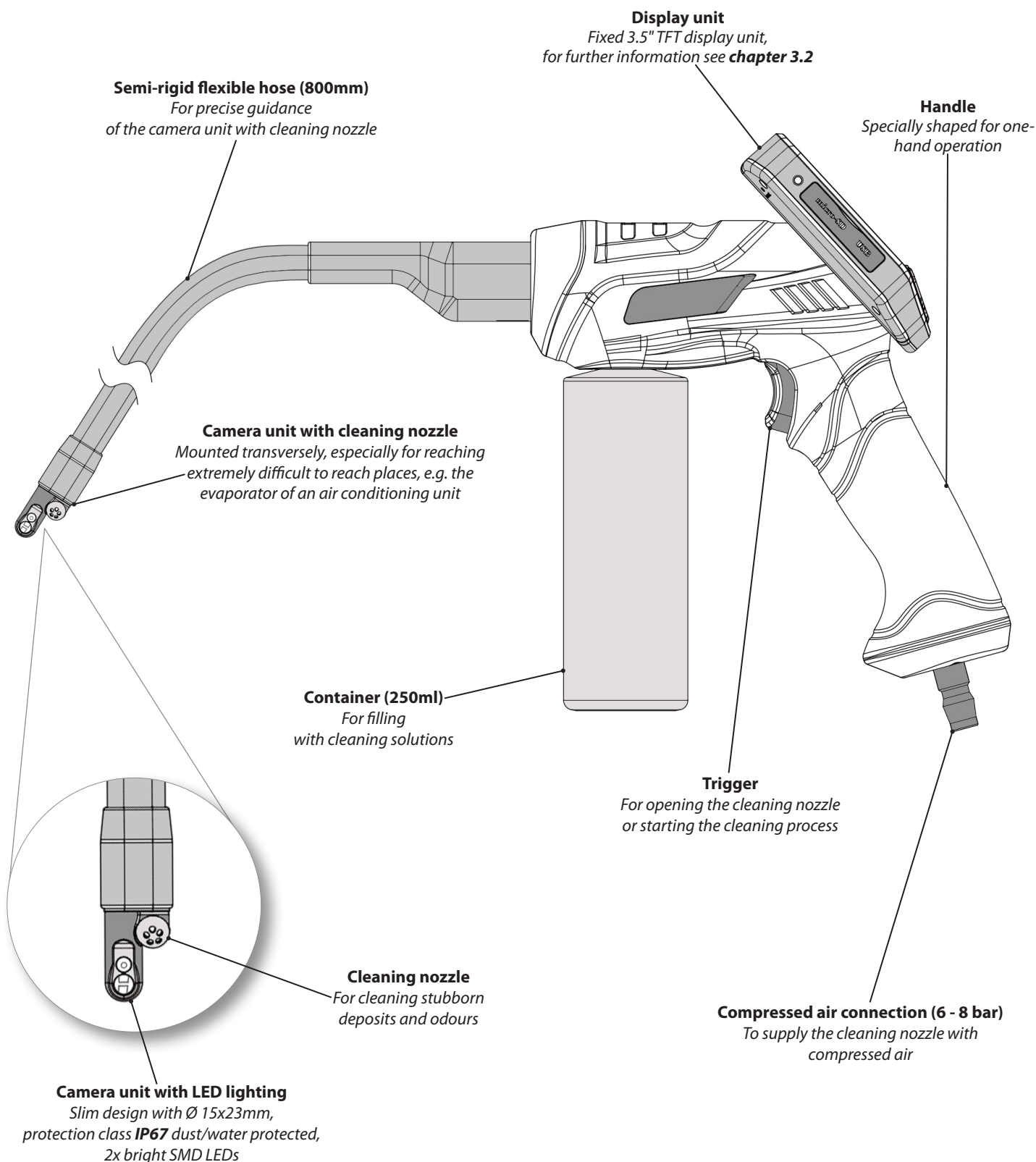
2.3 Scope of delivery

Item	Part no.	Description	Quantity
-	KL-0870-1001	Display unit with handle, container and 3.7 V lithium polymer battery (1650 mAh)	1
A	-	Display unit	1
B	-	Handle	1
C	-	250ml container for cleaning fluids	1
-	-	microSD card (8 GB)	1
D	KL-0870-1002	Camera unit with cleaning nozzle	1
E	-	Data and charging cable	1
F	-	Power supply unit	1
-	-	Microfibre cloth for camera lens	1
-	KL-0870-1090	Storage bag	1

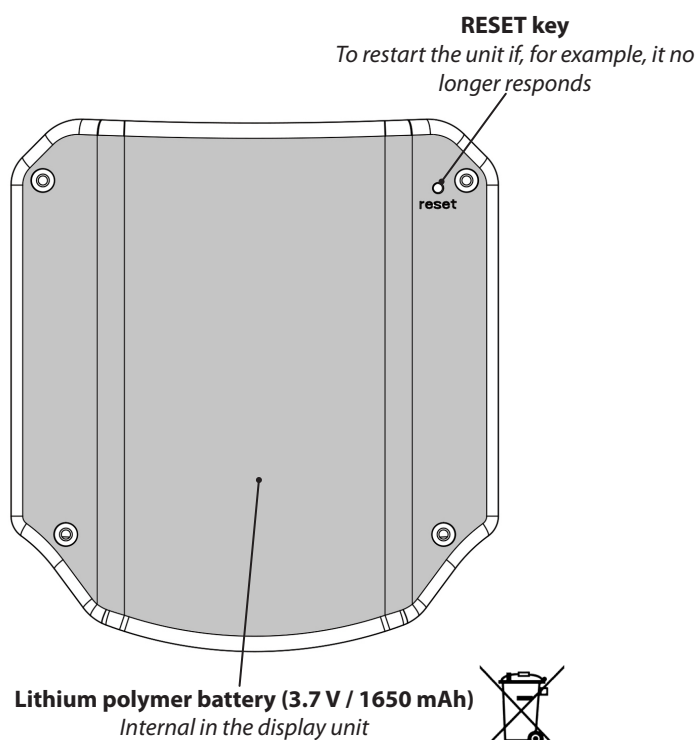
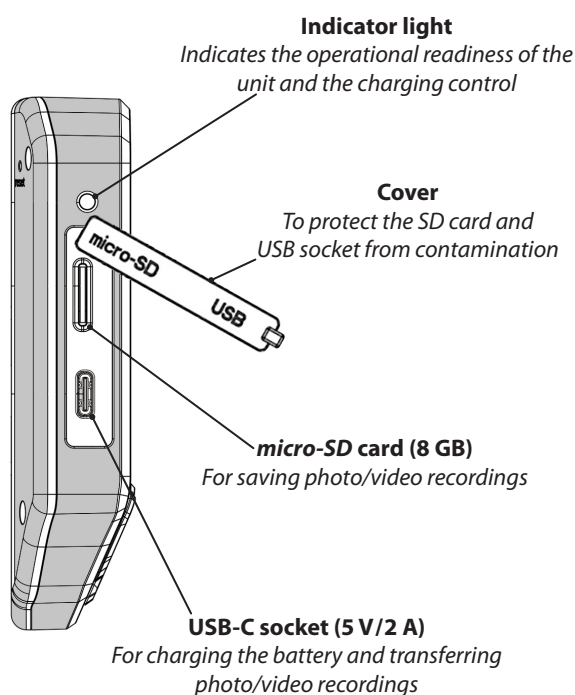
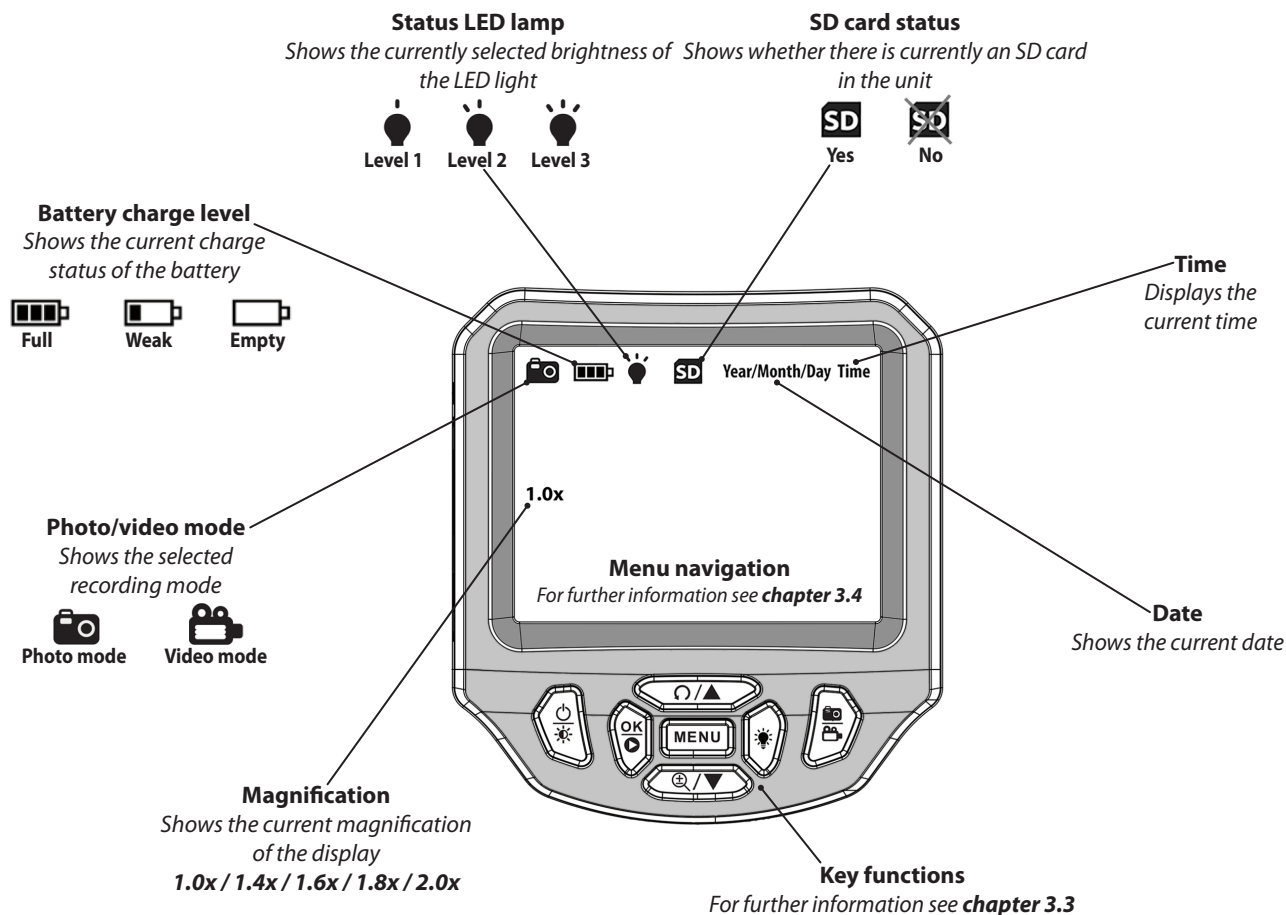
3. OPERATION AND FUNCTION OVERVIEW

This operation and function overview shows basic components, designations and information on using the videoscope with cleaning function.

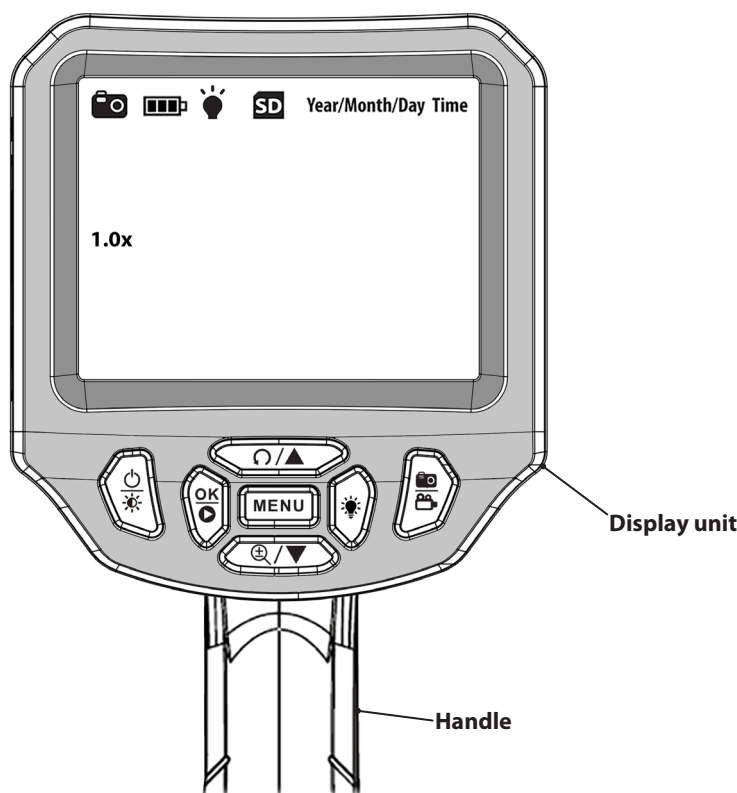
3.1 Overview of videoscope with cleaning function



3.2 Overview of display unit



3.3 Overview of key functions



- ⏻ **Switch on videoscope:** Press the key for **2 seconds**.
Switch off the videoscope: Press the key for **2 seconds**.
Adjust the brightness of the display: **Briefly** press the key.

- 💡 **Switch the camera LED on/off + adjust the brightness:** **Briefly** press the key.

- 🔍 **Enlarge the display:** **Briefly** press the key.

- ↺ **Rotate/mirror the display:** **Briefly** press the key.

- ▲ **Position up (in the device menu):** **Briefly** press the key.
Next picture (in the photo/video gallery): **Briefly** press the key.

- ▼ **Position down (in the device menu):** **Briefly** press the key.
Previous picture (in the photo/video gallery): **Briefly** press the key.

- 📷/📹 **Switching between photo and video mode:** Press the key for **2 seconds**.
Take a photo (in photo mode): **Briefly** press the key.
Start/stop video recording (in video mode): **Briefly** press the key.
Switching from the photo/video gallery back to photo/video mode: **Briefly** press the key.

- OK **Switch to the photo/video gallery:** **Briefly** press the key.
View video recordings (in the photo/video gallery): **Briefly** press the key.
Confirm selection (in the photo/video gallery + in the device menu): **Briefly** press the key.

- MENU** **Change to the device menu:** **Briefly** press the key.
Delete photo/video recordings (in the photo/video gallery): **Briefly** press the key.
Step back (in the photo/video gallery + in the device menu): **Briefly** press the key.

3.4 Overview of menu navigation

Photo mode: For taking photos during use.

Video mode: For recording videos during use.

Photo/video gallery: To view and edit the photos and videos you have taken.

- **Delete:** To delete individual or all photos and videos.

Device menu: Use to set basic device functions.

- **Card reading mode:** For transferring photo and video recordings to a laptop or similar device.
- **Language:** For setting the date and time.
- **Date/time:** For setting the date and time.
- **Date/time stamp:** Turns off/on the date/time stamp on photo and video recordings.
- **Memory card:** To format the memory card.
- **Factory setting:** To restore the factory settings.
- **Software version:** Displays the current software version.

3.5 Basic operation of the videoscope

Use of the charging and data cable:

- The charging/data cable [E] allows you to charge the battery on the videoscope and to transfer photos and video recordings to a laptop or similar device with a USB-A socket.

Charge the battery of the display unit:

- The videoscope has an internal lithium polymer battery. Charge it via the USB-C socket on the display unit [A], using the enclosed charging cable [E] and the power supply unit [F].

Switch on videoscope:

- To switch on the videoscope, press and hold the key  on the display unit [A] for 2 seconds. You are now automatically in **photo mode**.

Adjust the brightness of the display:

- The brightness of the display can be adjusted in 3 steps by briefly pressing the key .

Enlarge the display:

- The display can be enlarged in 4 steps by briefly pressing the key .

Rotate or mirror the display:

- The display can be rotated or mirrored in 2 steps by briefly pressing the key .

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Use photo mode:

- After switching on the display unit [A], you are automatically in photo mode, which shows the current live view of the camera.
- To take a photo, simply press the key  briefly and it will automatically be saved in the photo/video gallery.

Use video mode:

- To switch to video mode, press and hold the key  for 2 seconds in photo mode. Like photo mode, video mode shows the current live view of the camera.
- To start or stop a video recording, simply press the key  briefly and it will automatically be saved in the photo/video gallery:

Switching between photo and video mode:

- To switch between photo and video mode, press and hold the key for 2 seconds  at a time.

Open photo/video gallery:

- To switch to the photo/video gallery, briefly press the key **OK**  in photo/video mode. In the photo/video gallery you can view or delete the photos and videos.
- By pressing the keys  and , you can browse through the stored recordings.
- You can play back video recordings simply by briefly pressing the key **OK** .
- You can delete the saved recordings by pressing the **MENU** key and confirm with the **OK**  key.

Switch the camera LED on or off and select the brightness level:

- The LED on the camera can be switched on or off and the brightness can be adjusted in 3 steps by briefly pressing the key .

Transfer photo and video recordings to a laptop or a similar device:

- The stored photo and video data can be transferred to a laptop or similar device by removing the SD card or connecting the display unit [A] with the enclosed data cable [E] via the *USB-C* socket. In case of a USB connection, the card reading mode must be activated in the device menu beforehand, see **chapter 3.4**.

Make settings in the device menu:

- To switch to the device menu, briefly press the **MENU** key in photo/video mode. There you will find all settings for the basic functions of the device, see also **chapter 3.4**.
- Now select the corresponding setting with the keys ▲ and ▼ and open it by pressing the key **OK** ►.
- You can go back one step at any time by pressing the **MENU** key.
- To exit the device menu, simply press the key briefly / .

Restore to factory settings:

- To access the factory settings, you must go to the device menu by briefly pressing the **MENU** key.
- Now use the keys ▲ and ▼ to select "**Factory settings**" and open it by pressing the key **OK** ►.
- You can go back one step at any time by pressing the **MENU** key.
- To exit the device menu, simply press the key briefly / .

Switch off the videoscope:

- Press the key  for 2 seconds to switch off the videoscope.

What to do if the device stops responding:

- Charge the battery sufficiently before use.
- Remove any dirt from the camera lens before use.
- Let the camera cool down, it may switch off automatically if it overheats.
- If necessary, press the **RESET** key on the back of the display unit [A], e.g. With a paper clip.

3.6 Basic operation of the cleaning function

Use the cleaning function:

WARNING

Cleaning solutions can pose hazards and risks to people and the environment.

► **Never** use the unit with highly flammable and combustible cleaning solutions or other liquids!

► Before using cleaning solutions, **always** read the relevant product information, warnings or manufacturer's instructions and observe them during use!

► **Always** handle **biocidal** cleaning solutions carefully and safely!

► It is essential to avoid inhaling vapours during the cleaning process!

► Only use the videoscope outdoors or in well-ventilated rooms and open all windows or doors of the vehicle during the cleaning process!

1. Fill the container [C] with a suitable air conditioner cleaning solution.
2. Connect the videoscope with a compressed air hose, a pressure between 6-8 bar is required.
3. Locate the contamination and press the trigger on the handle [B] for the cleaning process.

4. EC DECLARATION OF CONFORMITY / UK DECLARATION OF CONFORMITY

EC DECLARATION OF CONFORMITY (Translation)

Name and address of the manufacturer

GEDORE Automotive GmbH
Breslauer Straße 41
78166 Donaueschingen, GERMANY



We hereby declare that the product described below

Bezeichnung: Videoscope

Serie / Typ: KL-0870-10 K

conforms to all relevant provisions of the **Electromagnetic Compatibility (EMC) Directive 2014/30/EU** on the harmonisation of the laws of the Member States relating to electromagnetic compatibility, the **Low Voltage (LVD) Directive 2014/35/EU** on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits and the **Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU and 2015/863/EU (RoHS III)** on the restriction of the use of certain hazardous substances in electrical and electronic equipment. The declaration loses its validity if the product is converted or modified without our consent.

Applied harmonised EN standards:

EN 55011:2016+A1:2019 - *Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement*

EN 55024:2010+A1:2015 - *Information technology equipment - Immunity characteristics - Limits and methods of measurement*

EN 55032:2015 - *Electromagnetic compatibility of multimedia equipment - Emission Requirements*

EN 55035:2017 - *Electromagnetic compatibility of multimedia equipment - Immunity requirements*

EN 60950-1:2006+A11:2009+A1:2010+A12:2011+AC:2011+A2:2013 - *Information technology equipment - Safety - Part 1: General requirements*

EN 61000-3-2:2014 - *Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*

EN 61000-3-2:2019 - *Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*

EN 61000-3-3:2013+A1:2019 - *Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection*

EN 61000-6-1:2019 - *Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments*

Other technical standards and specifications applied:

EN IEC/IEEE 82079-1:2020 - *Preparation of information for use (instructions for use) of products - Part 1: Principles and general requirements*

Authorised representative of GEDORE Automotive GmbH for the compilation of all technical documents:

Head of product development, Breslauer Straße 41, 78166 Donaueschingen, GERMANY

Donaueschingen, 30 March 2023

ppa. Michael Wehler, Head of Global Business Development, GEDORE Automotive GmbH

UK DECLARATION OF CONFORMITY (Original UK Declaration of conformity)**Name and address of manufacturer**

GEDORE Automotive GmbH
Breslauer Straße 41
78166 Donaueschingen, GERMANY



We hereby declare that the product described below

Designation: Videoscope

Series / Type: KL-0870-10 K

conforms to all relevant provisions of the **Electromagnetic Compatibility Regulations 2016** on the harmonisation of the laws of the Member States relating to electromagnetic compatibility, the **Electrical Equipment (Safety) Regulations 2016** on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits and the **Electrical and Electronic Equipment Regulations 2012 (as amended)** on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

The declaration loses its validity if the product is converted or modified without our consent.

Designated (UK) or harmonised (NI) standards applied:

BS EN 55011:2016+A1:2019 - *Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement*

BS EN 55024:2010+A1:2015 - *Information technology equipment - Immunity characteristics - Limits and methods of measurement*

BS EN 55032:2015 - *Electromagnetic compatibility of multimedia equipment - Emission Requirements*

BS EN 55035:2017+A11:2020 - *Electromagnetic compatibility of multimedia equipment - Immunity requirements*

BS EN 60950-1:2006+A2:2013 - *Information technology equipment - Safety - Part 1: General requirements*

BS EN 61000-3-2:2014 - *Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*

BS EN IEC 61000-3-2:2019 - *Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*

BS EN 61000-3-3:2013+A1:2019 - *Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection*

BS EN 61000-6-1:2019 - *Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments*

Other technical standards and specifications applied:

EN IEC/IEEE 82079-1:2020 - *Preparation of information for use (instructions for use) of products - Part 1: Principles and general requirements*

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