

KL-0880-11 K

Videoscope (Ø 3.9mm) with 4-way Joint



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i This table of contents contains **interactive elements** with which the desired **chapters** can be accessed quickly and conveniently on digital devices with just one **click**.

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1. READ AND UNDERSTAND FOR SAFETY



These Operating instructions are part of the **VIDEOSKOPS** and are intended to familiarise you with the operation of this special tool. Read and understand these Operating instructions before using the special tool and observe all instructions, regulations and notes for safe use! Always keep the Operating instructions in a safe place so that you or subsequent users can access them at any time. Be aware that misuse of the special tool can, in the worst case, lead to **DEATH** or **SERIOUS INJURY**! Stop work immediately if you are unsure about using the special tool and contact **GEDORE Automotive** if necessary.

1.1 Target group

These Operating instructions are intended **exclusively** for trained specialists in specialist vehicle workshops! The special tool **may only** be used in specialist vehicle workshops by trained specialists who are familiar with the basic regulations on occupational safety, accident prevention and environmental protection! The special tool **must never** be used by unauthorised, inexperienced and underage persons or children or persons with limited physical, sensory and mental abilities!

1.2 Obligations of the owner

According to the German Ordinance on Industrial Safety and *Health (BetrSichV)*, employers are obliged to provide their employees with safe work equipment! The special tools from GEDORE Automotive comply with the recognised rules of technology and relevant safety regulations at the time they are placed on the market.

The owner of the special tool **must ensure that only** trained specialists in specialist vehicle workshops use the special tool!

The owner of the special tool **must ensure** that the user has access to the Operating instructions and has read and understood them in full **before** using the special tool!

The owner of the special tool **must ensure** that the user is familiar with the basic regulations on occupational safety and accident prevention and that personal protective equipment is available!

1.3 Intended use

The VIDEOSCOPE...

... **may only** be used for industrial applications on motor vehicles such as cars, vans, commercial vehicles, buses, construction machinery and agricultural machinery!

... **may only** be used for the inspection and damage analysis of components such as engines, gearboxes, intake and cooling systems, exhaust systems, body parts, etc.!

... **may only** be used with GEDORE Automotive original spare parts and accessories!

... **may only** be used in the manner described in these Operating instructions!

⚠ Any other use may result in **DEATH** or **SERIOUS INJURIES** !

1.4 Reasonably foreseeable misuse

The VIDEOSCOPE...

... **must never** be used for medical use or in any other way than intended!

... **must never** be used in potentially explosive atmospheres 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 misused without authorisation!

⚠ **Always** use the special tool as intended. Any other use may result in **DEATH** or **SERIOUS INJURY** !

1.5 Personal protective equipment

When using the special tool, various hazards can lead to crushing, cutting or impact injuries. Therefore, for your own safety, always wear your personal protective equipment when using the special tool!



Wear **PROTECTIVE GLOVES** (e.g. DIN EN 388, OSHA 29 CFR 1910.138, ANSI 105) when using the special tool to protect against sharp edges and crushing between parts!

►When using the special tool, sharp edges and crushing between parts can cause **INJURY** to your **hands** !



Wear **SAFETY SHOES** (e.g. DIN EN ISO 20345, OSHA 29 CFR 1910.136, ANSI Z41) when using the special tool to protect against falling parts!

►When using the special tool, falling parts can cause **INJURY** to your **feet and toes** !

1.6 Labelling of the warnings

Warning notices warn of possible **dangers**. **Always** observe them to avoid **DEATH** or **INJURY**! Warnings in these Operating instructions are categorised as follows for better differentiation:

Warning signs	Meaning
WARNING	Indicates a hazardous situation which, if not avoided, could result in DEATH or SERIOUS INJURIES .
CAUTION	Indicates a hazardous situation which, if not avoided, may result in MEDIUM or LOW INJURY .
ATTENTION	Indicates a situation which, if not avoided, may result in damage to the tool or an object in its vicinity.
i	Reference to important information and useful tips.

1.7 Working environment

Only use the special tool in a safe working environment and **do not** expose it to extreme temperatures, direct sunlight, extreme humidity or moisture!

- The workplace **must** be clean and tidy.
- The workplace **must** be sufficiently large and well lit.
- The workplace **must** have a stable and non-slip surface.
- The workplace **must** be secured against access by unauthorised persons.
- The workplace **must** have a room temperature between -10 °C and +40 °C.

1.8 Emissions

Light emissions can pose a risk to the eyes when using the special tool. The intense light from the integrated LED light can cause glare and strain the eyes.

- Never point the LED light directly at your eyes or the eyes of other people.
- Avoid direct eye contact with the light source to prevent eye strain or injury.

1.9 Care / Storage

ATTENTION

Improper care and storage can lead to damage to the special tool.

- Never** immerse the special tool in water, solvents or other cleaning fluids.
- Only** clean the special tool with a dry and clean cleaning cloth, **but only** clean the camera lens with the enclosed microfibre cloth.
- Store the special tool **together** with the Operating instructions in a dry and clean place.

1.10 Basic safety instructions and warnings

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

When using the special tool, always observe the following safety instructions and warnings and take the necessary measures to prevent fatal injuries, serious damage and damage to property due to hazards, misuse, abuse and improper handling!

- ▶ Read and understand these Operating instructions before using the special tool and observe all instructions, regulations and notes listed therein for safe use.
- ▶ When using the special tool, always comply with the basic regulations on occupational safety, accident prevention and environmental protection.
- ▶ Always follow the vehicle manufacturer's instructions and regulations for vehicle-specific application procedures.
- ▶ Always use the special tool as intended. GEDORE Automotive accepts no liability, warranty or guarantee claims for injuries or damage resulting from misuse or failure to observe the safety instructions.
- ▶ Never use the special tool for medical use or in any other way than intended.
- ▶ Please note that this special tool may only be used in specialist vehicle workshops by trained specialists.
- ▶ Never allow unauthorised, inexperienced or underage persons or children or persons with limited physical, sensory or mental abilities to use the special tool.
- ▶ Only use the special tool in a safe working environment and ensure that no unauthorised persons are in the immediate vicinity.
- ▶ Never leave the special tool unattended on the vehicle.
- ▶ Wear your personal protective equipment such as protective gloves and safety shoes when working.
- ▶ Never use the special tool if you are tired or under the influence of medication, alcohol or drugs.
- ▶ Carefully check the special tool for damage, loose parts and unauthorised modifications before each use and never use it if any such damage is found.
- ▶ Before each use, check moving parts on the special tool for dirt and clean and lubricate them with a suitable lubricant if necessary.
- ▶ Only use original spare parts and accessories from GEDORE Automotive for the special tool.
- ▶ When using other accessories for the special tool, always observe the corresponding instructions.
- ▶ For your own safety, please note that the special tool may only be repaired by specially trained GEDORE Automotive personnel.
- ▶ Avoid dropping, knocks and impacts against the special tool.
- ▶ When not in use, place the special tool securely on a clean shelf, workbench or in the accompanying plastic case to prevent it from falling.
- ▶ Never use the special tool in potentially explosive areas and avoid contact with flammable liquids or gases, e.g. in a fuel tank, as electrical and electronic devices can trigger spark discharges.
- ▶ Never use the special tool in the vicinity of uninsulated, live cables or electrical components.
- ▶ Make absolutely sure that the correct mains voltage is applied before plugging in the power supply unit of the special tool. Further information can be found on the rating plate on the power supply unit.
- ▶ Do not leave the power supply unit of the special tool unattended during operation and disconnect it from the socket after use and during thunderstorms.
- ▶ The special tool has a permanently installed lithium-polymer accumulator (rechargeable battery). Only use the enclosed charging cable with mains adapter or an equivalent charger that fulfils the same specifications and limit values for charging.
- ▶ If you notice that the special tool becomes extremely hot, e.g. during charging, disconnect the power supply immediately and stop using it. There is a risk of explosion and injury from escaping gases or liquids.
- ▶ Avoid exposing the special tool to direct sunlight for long periods of time and keep it away from heat and fire.
- ▶ Never look into the LED lighting of the special tool for long periods of time.
- ▶ Never remove the SD card while taking photos or videos, as this can lead to data loss.
- ▶ The camera lens of the special tool is protected against dust and water in accordance with IP67 and may be immersed in water for short periods. The remaining components are not waterproof. It is therefore essential to avoid contact with water and never use the device with wet hands.

- ▶ Never bend the camera, data or charging cable of the special tool, as these could be damaged.
- ▶ Depending on the temperature and angle of the camera cable, the swivelling range of the 4-way joint may be reduced.
- ▶ Always set the camera lens to the centre position before pulling it out of a cavity.
- ▶ This electrical and electronic device contains a lithium polymer battery. Please note that it may only be returned to a collection point in a discharged state and with battery contacts protected against short circuits.
- ▶ Stop work immediately if you feel unsafe when using the special tool and contact GEDORE Automotive GmbH if necessary.
- ▶ Technical changes, errors and mistakes excepted, as errors or omissions cannot be ruled out despite careful preparation of these instructions.

1.11 Maintenance

⚠ WARNING

Improper repair of the special tool can lead to **DEATH** or **SERIOUS INJURY**.

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

1.12 Environmentally friendly disposal

Dispose of the special tool and packaging material in an environmentally friendly manner in accordance with the legal requirements. If necessary, ask your local authority about environmentally friendly disposal options.

1.13 Information obligation in accordance with the German Electrical and Electronic Equipment Act (*ElektroG*)

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

GEDORE Automotive GmbH
Breslauer Street 41
78166 Donaueschingen



We will then take it back in full and dispose of it properly via our certified specialist disposal companies. The device contains a rechargeable battery (a lithium-polymer accumulator). This cannot be removed by the end user and will be disposed of separately and professionally 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.

1.14 Information obligation in accordance with the Battery Act (*BattG*)

Please note that our electrical and electronic devices contain batteries. Batteries must not be disposed of with household waste. This is indicated by the crossed-out wheeled bin symbol on the device. As the end user, you are legally obliged to return batteries. Batteries may contain harmful substances that can damage the environment or your health if they are not stored or disposed of properly. Used batteries can be returned to designated collection points, e.g. municipal collection centres, retailers or to us at **GEDORE Automotive GmbH**. Old batteries may only be returned to collection centres in a discharged state and with the battery terminals secured against short circuits!

The symbols shown on the batteries have the following meaning:

Crossed-out waste bin = The battery must not be disposed of with household waste.

Pb = battery contains more than 0.004 per cent lead by mass.

Cd = battery contains more than 0.002 per cent cadmium by mass.

Hg = battery contains more than 0.0005 per cent mercury by mass.



2. PRODUCT DESCRIPTION

WARNING

Misuse of the videoscope can lead to **DEATH** or **SERIOUS INJURY**.

► **Never use the videoscope for medical use or in any other way than intended on!**

2.1 KL-0880-11 K - Videoscope (Ø 3.9mm) with 4-way joint

Can be used universally on cars, vans, commercial vehicles, buses, construction machinery and agricultural machinery.

The slim videoscope enables quick and easy inspection of components in motor vehicles that are extremely difficult to access. For example, for professional damage analysis on engines, gearboxes, intake and cooling systems, exhaust systems, body parts and much more.

- Portable one-hand endoscope for quick and easy inspection of components that are extremely difficult to access
- Professional damage analysis on engines, gearboxes, body parts and much more
- Extremely slim Ø 3.9 mm micro camera lens with adjustable LED light
- 360° all-round visibility in all directions thanks to 4-way joint
- Convenient one-handed operation of the 4-way joint via control knob
- Live viewing via 5" HD colour display with zoom, rotate and mirror function
- Photo and video documentation with date and time stamp
- Direct playback of photos and videos after recording
- Connection to smartphone, tablet and laptop possible
- Camera lens protected against dust and water in accordance with IP67
- incl. 8 GB *microSD card* and powerful 3.7V lithium polymer battery (5000mAh)

2.2 Technical data

Micro camera lens:	Ø 3.9mm
Swivelling range:	4-way joint up to 360°
Photo recording format:	1920x1080 pixels / 300 dpi (.jpg)
Video recording format:	1920x1080 pixels / 30 fps (.mp4)
Recording sensor:	1/9" Digital CMOS
Focal length:	20 - 50mm
Picture angle:	80°
Camera cable length:	1200mm
Camera protection class:	IP67
Camera lighting:	6x SMD LED
Display resolution:	TFT 5" (127 mm) / 1280x720 pixels
Memory:	32GB <i>microSD card</i>
Battery:	3.7 V lithium polymer battery (LiPo / 3000mAh)
Battery life:	approx. 3 hours
Device interfaces:	<i>microSD</i> / USB-C / mini-HDMI
Maximum permissible charging voltage/current:	5 Volt / 2 Ampere
Temperature range:	-10° to +60° Celsius



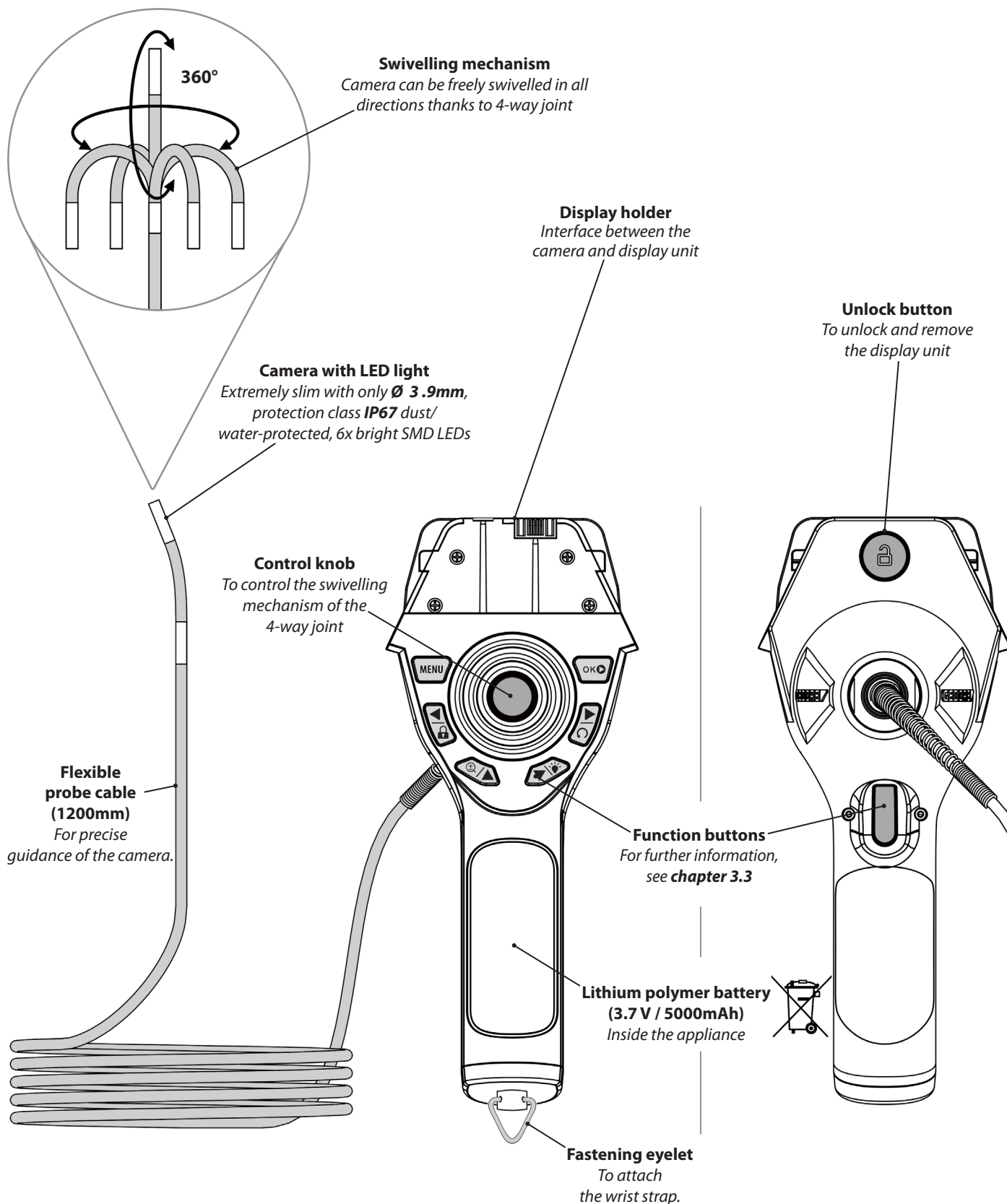
2.3 Scope of delivery

Pos.	Part no.	Description	Quantity
A	KL-0880-1101	Handle with camera probe and 3.7V lithium-polymer battery (3000mAh)	1
B	KL-0880-1102	Display unit 5" TFT	1
C	KL-0880-1103	Wrist strap	1
D	-	Charging cable from USB-C to USB-C (<i>not suitable for fast chargers!</i>)	1
E	-	Charging and data cable from USB-A to USB-C	1
-	-	microSD card (32GB)	1
-	-	Microfibre cloth for camera lens	1
-	KL-0880-1190	Softcase storage bag	1

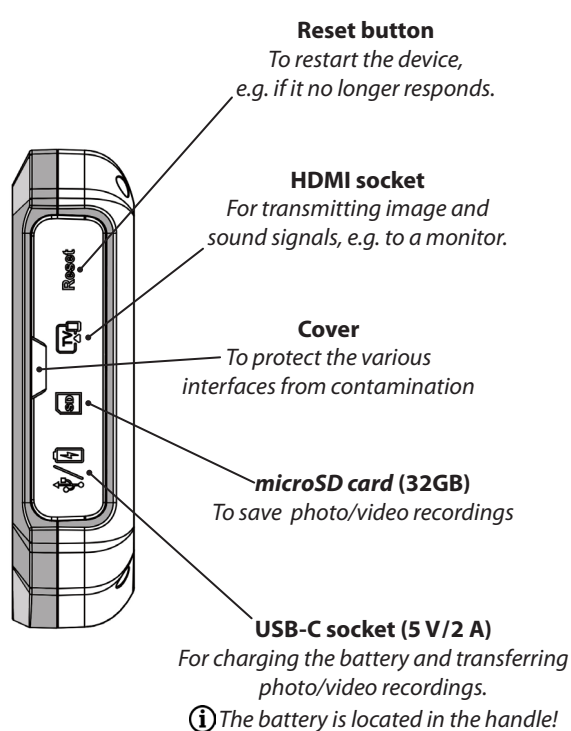
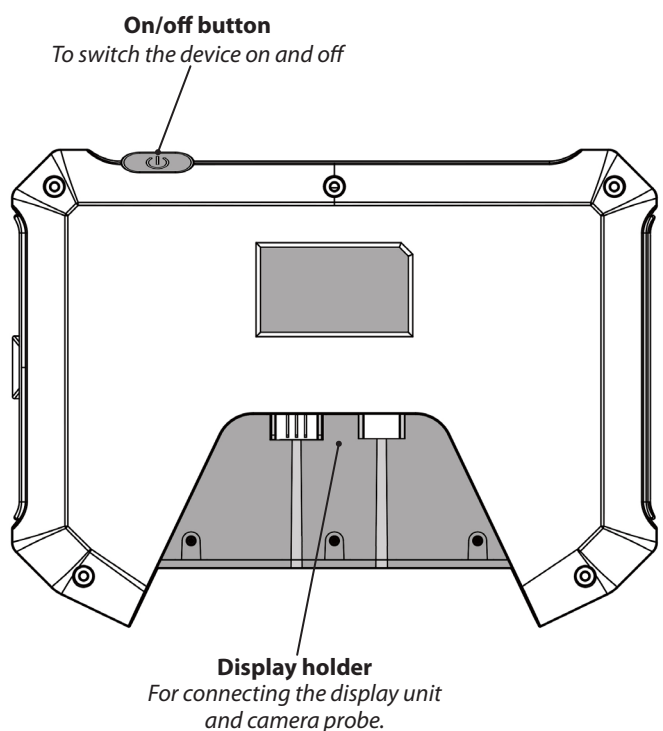
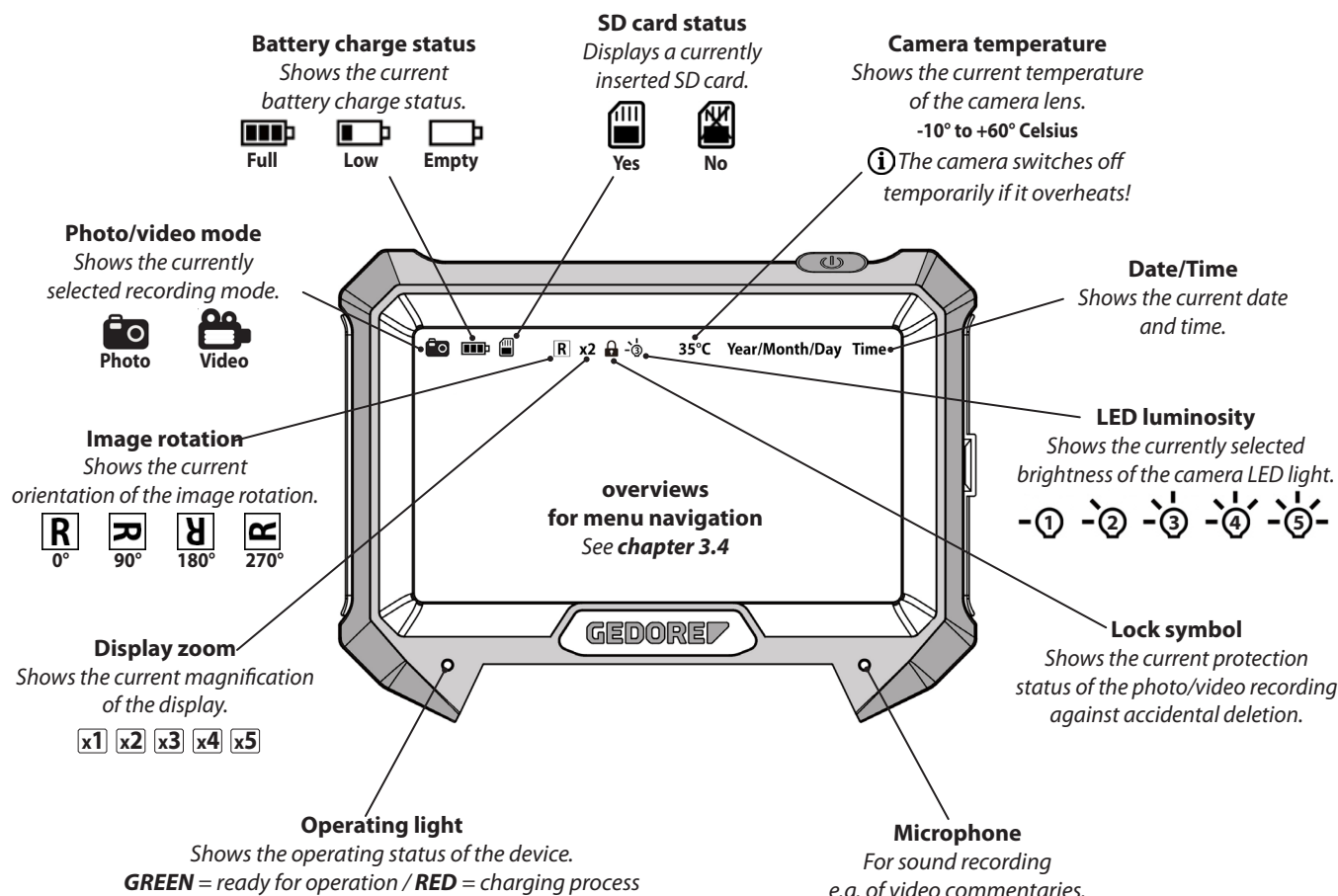
3. GENERAL FUNCTIONAL OVERVIEW

These overviews show basic components, designations and much more information on using the videoscope.

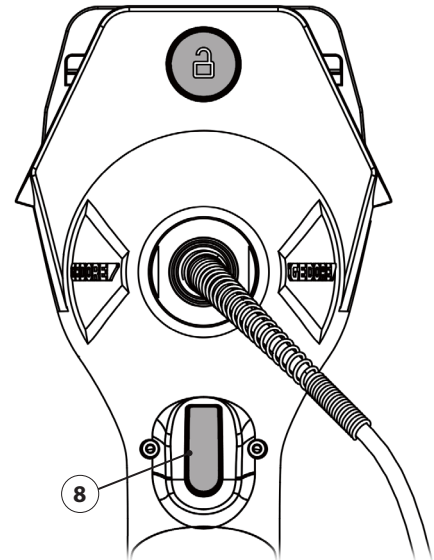
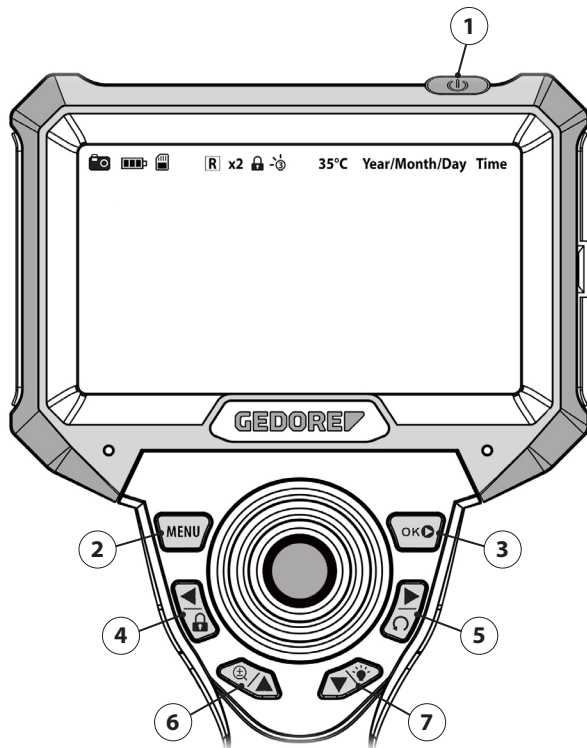
3.1 Overview of handle with camera probe



3.2 Overview display unit



3.3 Overview of function buttons



- 1 **Switch on the videoscope:** Press the button **briefly**.
Switch off the videoscope: Press the button **for 3 seconds**.
- 2 **Open the device menu:** Press the button **briefly**.
Exit the device menu: Press the button **for 2 seconds**.
Under Device menu - One step back: Press the button **briefly**.
Under Photo/video gallery - One step back: Press the button **briefly**.
- 3 **Open photo/video gallery:** Press the button **briefly**.
Exit the photo/video gallery: Press the button **for 2 seconds**.
Under Device menu - Confirm selection: Press the button **briefly**.
Under Photo/video gallery - Confirm selection: Press the button **briefly**.
- 4 **Activate the still image function:** Press the button **briefly**.
Under Device menu - Navigate to the left: Press the button **briefly**.
Under Device menu - Customise selection: Press the button **briefly**.
Under Photo/video gallery - Protect selection: Press the button **briefly**.
Under Photo/video gallery - Customise selection: Press the button **briefly**.
- 5 **Turn the display:** Press the button **briefly**.
Under Device menu - Navigate to the right: Press the button **briefly**.
Under Device menu - Customise selection: Press the button **briefly**.
Under Photo/video gallery - Delete selection: Press the button **briefly**.
Under Photo/video gallery - Customise selection: Press the button **briefly**.
- 6 **To enlarge the display:** Press the button **briefly**.
Under Device menu - Navigate upwards: Press the button **briefly**.
Under Photo/video gallery - Navigate upwards: Press the button **briefly**.
Under Photo/video gallery - Switch to previous recording: Press the button **briefly**.
- 7 **Adjust the camera LED light:** Press the button **briefly**.
Under Device menu - Navigate down: Press the button **briefly**.
Under Photo/video gallery - Navigate downwards: Press the button **briefly**.
Under Photo/video gallery - Switch to the next shot: Press the button **briefly**.
- 8 **Switch between photo and video mode:** Press the button **for 2 seconds**.
Take a photo or start/stop video recording: Press the button **briefly**.

3.4 Overview of menu navigation

Device menu

① All basic settings for the videoscope can be found in the **device menu**.



Display & recording settings

- **Brightness** = Customise the display backlighting.
- **Photo** = Set the resolution of photo recordings (720p or 1080p).
- **Video** = Set the resolution of video recordings (720p or 1080p).



Camera settings

- **Brightness** = Adjust the brightness for better visibility.
- **Contrast** = Adjust the contrast for clear differences in detail.
- **Saturation** = Adjust the colour saturation for richer colours.
- **Sharpness** = Adjust the image sharpness for more detailed images.
- **Gamma** = Adjust the gamma value for optimised brightness and contrast effects.
- **Colour** = Adjust the colour temperature (STANDARD, NEGATIVE, WARM, COLD).
- **Default** = Restore the default settings.



General settings

- **Date** = Setting the date and time
- **Language** = Selection of the corresponding national language (German, English, Chinese, Finnish, Italian, Dutch, Romanian, Polish, French, Danish, Spanish, Norwegian).
- **Stamp** = Fade out or fade in date/time stamp on photo and video recordings.
- **Error** = Retrieve the videoscope error logs.



Device settings

- **Auto Off** = Set the automatic appliance switch-off to save energy.
- **Standby** = Set the automatic display switch-off to save energy.
- **Formatting** = Complete formatting of the SD memory card.
- **Factory settings** = Restore the default factory settings.
- **SD card** = Show or hide the available storage space of the microSD card on the display
- **Software version** = Displays the current videoscope software version.

Photo/video gallery

① The photo/video gallery contains all photo and video recordings as well as the following settings.

◀ **File protection** Protect single or multiple photos and videos against accidental deletion.

Delete ▶ Delete single or multiple photos and videos.

4. GENERAL PREPARATIONS

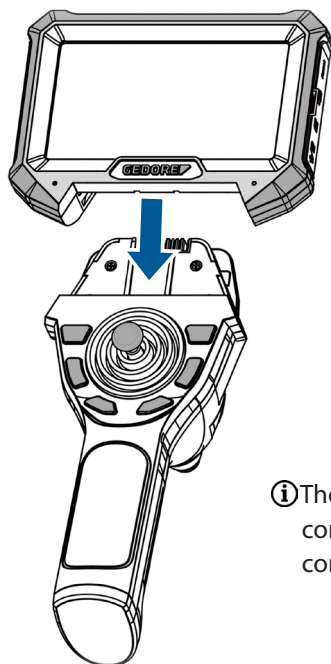
4.1 Installing/removing of the display unit

📷 1: Installing and removing of the display unit [B]...

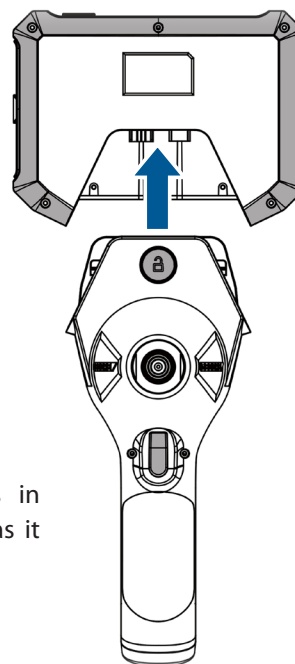
ATTENTION

The display unit [A] can fall down and be damaged when using the videoscope.

► It is therefore essential to ensure that the display unit [A] engages fully in the handle [B]!



❶ The display unit [A] only works in conjunction with the handle [B] as it contains the battery.



1. For MOUNTING, carefully place the display unit [A] in the correct position on the handle [B] as shown until it clicks into place completely.

2. To DISASSEMBLY, press the "release button" on the handle [B] and carefully remove the display unit [A].

4.2 Put on wrist strap

📷 2: Putting on the wrist strap [C]...



ATTENTION

The videoscope can accidentally slip out of your hand during use, fall down and be damaged.

► It is therefore imperative that the wrist strap [C] is folded over to prevent the videoscope from falling down!

1. Firstly, attach the enclosed wrist strap [C] to the fastening eyelet on the videoscope. Now pass your hand through the wrist strap [C] as shown before using the videoscope.

5. BASIC OPERATION

WARNING

Misuse of the videoscope can lead to **DEATH** or **SERIOUS INJURY**.

- ▶ Never use the videoscope for medical use or in any other way than intended on !

ATTENTION

The camera on the videoscope can be damaged when it is pulled out of a cavity.

- ▶ Always move the camera to the centre position before pulling it out of a cavity!

The swivelling mechanism on the videoscope can be damaged.



- ▶ Never use force to operate the steering knob!

5.1 Basic information and commissioning









How to charge the videoscope battery...

- ① The videoscope is equipped with an internal (LiPo) lithium polymer battery in the handle **[B]**, which can only be charged via the USB-C socket when the display unit **[A]** is mounted.
 - To charge the battery, use one of the enclosed charging cables **[D]** or **[E]** and a suitable charger with a maximum output power of 5 Volts and 2 Amps. The red operating light on the videoscope indicates the correct charging process and goes out when the battery is fully charged.

To switch the videoscope on or off...

- ① The display unit **[A]** only works when mounted, as the battery is located in the handle **[B]**.
 - To switch on, briefly press the  button on the display unit **[A]**, the device will now start directly in photo mode.
 - To switch off, press and hold the  button for 2 seconds.

This is how you access the device menu to make various settings...

- ① In the device menu, you can make all the basic settings for the videoscope, including adjusting the display and camera settings, configuring the date and language, managing device functions such as auto-off and standby, formatting the SD card, resetting to factory settings and much more.
 - To open the device menu, briefly press the **MENU** button .
 - Use the buttons  or  to select the corresponding tab     and the buttons  or  to select the corresponding setting.
 - To exit the device menu, simply press the **MENU** button for 2 seconds .


How to use the charging and data cables...

- ① A special **USB On-The-Go** cable can be used to transfer photo and video recordings to a smartphone, tablet or similar device. These so-called **USB OTG** cables are easily available on the market.
 - The charging cable **[D]** enables the battery to be charged using a charger with a **USB-C socket**.
 - The charging/data cable **[E]** enables the battery to be charged using a charger with a **USB-A socket**, and photo and video recordings to be transferred to a laptop or similar device with a **USB-A socket**.

5.2 Display settings and functions

How to adjust the illumination on the display...

① The illumination of the display can be adjusted in 10 levels.

- To customise, briefly press the **MENU** button and select the "**Brightness**" entry under the  tab using the ▲ or ▼ buttons. You can then use the buttons ◀ or ▶ to select the desired lighting level.


To enlarge the view on the display...

① The magnification of the display can be adjusted in 5 levels.

- To zoom in, press the  button in quick succession to select the desired zoom level.


To rotate the view on the display...

① The rotation of the display can be adjusted by 90°.

- To rotate, press the  button in quick succession to select the desired view.

To activate or deactivate the still image function...

① The still image function allows you to quickly analyse the current camera view without blurring.

- To activate, briefly press the button  and the current camera view is paused until you press it again.

5.3 Camera and recording functions



How to pan the camera using the 4-way joint...

① The maximum swivelling range of up to 180° can vary slightly due to factors such as temperature, the angle of the probe cable and the operating speed of the control knob.

- To pan the camera, move the control knob gently and without force in the desired direction.



How to adjust the brightness of the camera LED light...

① The brightness of the camera LED light can be adjusted in 5 levels or switched off.

- To adjust or switch off the LED light, briefly press the  button. The  symbol on the display shows the selected light intensity.

How to use either photo or video mode...

① The videoscope always starts in photo mode first and shows the live view of the camera.

- To change, press and hold the button on the back of the handle **[B]** for 2 seconds. The  or  symbol on the display shows the selected mode.

How to take a photo...

① If necessary, you must first switch to **photo mode**.

- To take a photo, briefly press the button on the back of the handle **[B]**. The photo is then automatically saved in the photo/video gallery.








How to record a video...

① If necessary, you must first switch to **video mode**.

- To start and stop a video recording, briefly press the button on the back of the handle **[B]**. After stopping, the video is then automatically saved in the photo/video gallery.

5.4 Data management and transfer

How to access the photo/video gallery...

- ① In the photo/video gallery, you have the option of viewing your photos and videos, deleting them or protecting them against accidental deletion.
- To open the photo/video gallery, briefly press the **OK**  button.
 - You can use the buttons  or  to search through the saved recordings and open them using the **OK**  button.
 - You can use the  button to delete the recording or the  button to protect it against accidental deletion.
 - You can play and pause video recordings by briefly pressing the **OK**  button.
 - To exit the photo/video gallery, simply press the **MENU** button for 2 seconds.

How to transfer photo and video recordings to a laptop or similar device...

- ① The photo and video recordings can be transferred either directly via the data cable [E] or by removing the microSD card.
- **Transmission via data cable [E]:** Connect the data cable [E] to the display unit [A] and e.g. a laptop. Switch on the videoscope and follow the instructions on the laptop to transfer the photo and video recordings.
 - **Transfer via microSD card:** Remove the *microSD card* from the display unit [A] and insert it into an SD card reader, e.g. on a laptop. Follow the instructions on the laptop to transfer the photo and video recordings.

5.5 Troubleshooting and resetting






What to do if the display remains dark?

- Battery empty? The battery life is about 3 hours, charge it sufficiently before use.
- Camera lens dirty? Dirt can clog the camera lens. Clean it with a microfibre cloth.
- Camera lens overheated? When inspecting hot engine parts, the camera may switch itself off temporarily if it overheats. Allow the camera to cool down sufficiently until it switches on again automatically.

What should I do if the videoscope switches off again shortly after switching on?

- Battery empty? The battery life is about 3 hours. Charge it sufficiently before use.
- Software error? The videoscope software may hang up. Disconnect the display unit [A] from the handle [B] for about 10 seconds and restart the videoscope.

To reset the videoscope to factory settings...

- ① This may be necessary to rectify incorrect settings on the videoscope and reset them to the default values.
- To reset, briefly press the **MENU** button and select the **"Factory settings"** entry under the  tab using the  or  buttons. Now press the button  and confirm the restoration of the factory settings with the button **OK** .

5. EU DECLARATION OF CONFORMITY

EU DECLARATION OF CONFORMITY

Manufacturer's Name and Address

GEDORE Automotive GmbH
Breslauer Straße 41
78166 Donaueschingen, GERMANY



Product Description

Article Number: KL-0880-11 K
Article Name: Videoscope

We hereby declare that,

the above-mentioned product complies with the relevant provisions of the following EU Directives:

- **EMC – Electromagnetic Compatibility 2014/30/EU**
Electromagnetic Compatibility of Electrical and Electronic Equipment
- **LVD – Low Voltage Directive 2014/35/EU**
Safety of Electrical Equipment for Use Within Certain Voltage Limits
- **RoHS – Restriction of Hazardous Substances 2011/65/EU (RoHS II) + 2015/863/EU (RoHS III) + 2017/2102/EU**
Restriction of Hazardous Substances in Electrical and Electronic Equipment

This declaration becomes invalid if the product is altered or modified without our consent.

Applicable Harmonized EN Standards

EMC Directive 2014/30/EU

EN IEC 61326-1:2021 – EMC Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use
EN 55011:2016/A2:2021 – Industrial, Scientific, and Medical High-Frequency Devices – Radio Frequency Disturbance Characteristics
EN IEC 61000-6-2:2019 – Immunity for Industrial Environments
EN IEC 61000-3-2:2019/A2:2024 – Harmonic Currents (Limits for Disturbances to the Power Supply)
EN IEC 61000-3-3:2013/A2:2021/AC:2022-01 – Voltage Fluctuations and Flicker
EN 55032:2015+A1:2020+A11:2020 – Electromagnetic Compatibility of Multimedia Equipment – Emission Requirements
EN 55035:2017+A11:2020 – Electromagnetic Compatibility of Multimedia Equipment – Immunity Requirements

LVD Directive 2014/35/EU

EN 61010-1:2010+A1:2019 – Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use
EN IEC 62368-1:2024/A11:2024 – Safety of Audio/Video, Information, and Communication Technology Equipment

RoHS Directive 2011/65/EU

IEC 62321-1:2013 bis IEC 62321-8:2017 – Test Methods and Requirements for Compliance with the RoHS Directive

Other Applicable National Standards and Specifications

DIN EN IEC/IEEE 82079-1:2021-09 – Preparation of Instructions for Use of Products – Part 1: Principles and Requirements

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Donaueschingen, 26 March 2025

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