

User manual





Read carefully and keep safe for future reference

5 in 1 camera





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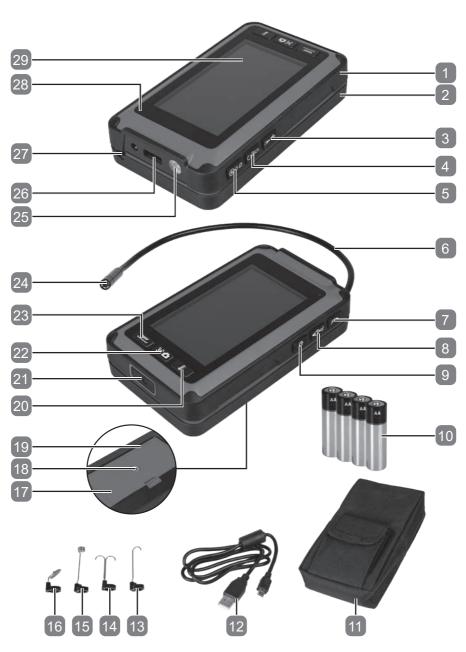


Scope of delivery / parts list

- 1. Front housing part
- 2. Rear housing part
- "LED light / laser pointer" function switch
- "Delete / alignment" function switch
- "Play / display brightness" function switch
- 6. Flexible shaft
- 7. "Zoom / UP" function switch
- "LED brightness / DOWN" function switch
- 9. "On / Off" function switch
- 10. 1.5 V batteries, type LR6 / AA
- 11. Carry bag
- 12. USB cable
- 13. Inspection attachment
- 14. Double hook attachment

- 15. Magnetic attachment
- 16. Mirror attachment
- 17. Battery compartment cover
- 18. Tripod
- 19. Battery compartment
- "Temperature measurement" selection switch
- 21. USB Port
- 22. "Camera recording" selection switch
- "Distance measurement" selection switch
- 24. LED camera light
- 25. LED work light
- 26. Laser pointer
- 27. Flexible shaft outlet
- 28. Red indicator light
- 29. Display







General

Read and keep the user manual carefully

This operating manual is an integral part of this 5-in-1 multi-function camera (hereafter referred to only as "inspection camera"). It contains important information on safety, usage and maintenance. Please read the operating manual carefully before using the inspection camera. Pay particular attention to the safety instructions and warnings. Failure to follow the instructions given in this manual may result in serious injury or damage to the inspection camera. Always include the manual when you give the inspection camera to others. Keep this manual in a safe place for future reference.

Symbols used in this manual

The following symbols and key words will be used in this manual, on the inspection camera or the packaging.

A WARNING!	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
∆CAUTION!	Signals a hazard that can cause injuries when ignored.
NOTICE!	Warns against possible damages.
i	This symbol refers to useful information on assembly or usage.
CE	Products marked with this symbol comply with all applicable regulations of the European economic area.
	Read the operating manual.
	DC Voltage.



The model name is a combination of letters and numbers:

Micro Visioval® Ref. 294200

Explanations of symbols

Q :	Indicates the brightness of the LED camera light 24 in 7 levels (the dots next to the symbols indicate the respective level).
-	Indicates the brightness of the display 29 in 7 levels (the number next to the symbol indicates the respective level).
F	Indicates the orientation of the display at 0°.
4	Indicates the orientation of the display at 180°.
Ł	Indicates the orientation of the display at 180° (mirrored).
7	Indicates the orientation of the display at 0° (mirrored).
029/100	Indicates the (consecutive) number of the displayed image in relation to the number of stored images.
Q ^{2X}	Indicates the magnification factor ("Zoom") in 4 levels (the number next to the symbol indicates the respective level).
	Indicates the available battery power in 5 levels (the number of bars shown in the battery symbol indicates the respective level).
Ō	Indicates insufficient battery power and prompts for immediate replacement of the batteries.



Safety

Proper use

The inspection camera is intended for private and DIY use only for the following purposes:

- for visual examination, inspection and troubleshooting on disconnected systems and equipment.
- for measuring the distance to fixed objects easily;
- for contactless measurement of surface temperature.

Any other use is expressly prohibited and is considered as misuse. The manufacturer cannot be held responsible for damage or injury caused by misuse of the product. Examples of misuse are given in the following non-exhaustive list:

- Using unsuitable accessories
- Using non-original spare parts.
- Incorrect operation or misuse.
- Non-observance of the operating manual.
- Repairs performed by unauthorised third party workshops.
- Power cuts or faults caused by non-observance of electrical regulations.
- Use and maintenance of the inspection camera by someone who is not familiar with the inspection camera and/or who lacks suitable experience.
- Commercial, non-industrial or industrial use of the inspection camera.

Use the accessories according to these instructions. Failure to follow the instructions given in this user manual may result in serious injuries and loss of warranty. Comply with applicable local or national regulations concerning the use of this inspection camera. Do not make any modifications to the inspection camera. Any modification to the inspection camera may be dangerous and is prohibited.

Residual risk

Residual risks cannot be completely ruled out even in case of proper use. Due to the nature of the inspection camera, the following risks may arise:

- Health hazards as a result of working with toxic or harmful materials (e.g. asbestos).

General safety instructions

AWARNING!

Read the warnings and safety instructions carefully. Failure to follow the warnings and safety instructions may result in electric shock, fire and/or serious injuries.

- a) Never use the camera on people or animals. The camera is not a medical device.
- b) Take appropriate protective measures for the area to be inspected. Drains and waste pipes may contain matter or chemicals which may be poisonous, infectious or corrosive.
- Wear appropriate personal protective equipment such as safety gloves, safety goggles or safety mask, respirator or face shield.
- d) To reduce the risk of contamination or infection through germs and pathogens, never eat, drink or smoke when operating the camera.
- e) Wash your hands and other exposed body parts thoroughly with hot soapy water after using the camera to inspect areas exposed to waste, chemicals or bacteria.
- f) Rinse the device's shaft thoroughly after use.
- g) Improper or negligent use can cause serious injuries.
- h) Do not look directly into the LED light of the camera head, as this can cause glare or eye damages.



- i) Do not use the camera in areas with live parts. You may get an electric shock. Before starting the work, make sure that all the circuits in the work area are switched off and secured against accidental switching on.
- j) Do not use the camera in areas where it may come into contact with moving parts. If the flexible shaft gets caught in moving parts, it may result in damage or injury. Before starting the work, make sure that all the machines in the work area are switched off and secured against accidental starting.
- k) Do not use the camera in potentially explosive areas (e.g. fuel or gas tanks), as the static discharge can lead to an explosion.
- I) Keep children away from the camera and the attachments.

Safety warnings for batteries

∴CAUTION!

Batteries may contain flammable substances. If batteries are not handled properly, they may leak, become hot, catch fire or explode under certain circumstances. This may cause serious injuries.

- a) Do not expose the batteries and the camera to extreme conditions, like radiators or direct sunlight.
- b) Never attempt to charge non-rechargeable batteries.
- c) Batteries should not be reactivated using other means, taken apart, thrown into a fire or shorted.
- Keep the batteries out of reach of children. If children or pets swallow the battery, seek medical attention immediately.
- e) Avoid battery fluid from coming into contact with the skin, eyes and mucous membranes. If they come into contact with battery fluid, rinse the affected area with clean water and seek medical attention immediately.

- f) Do not remove the battery fluid with bare hands, use household dish-washing gloves.
- g) Check the condition of the contacts in the battery compartment and clean them if necessary.
- h) If you do not intend to use the camera for more than a month, remove the battery from the camera.
- Remove used batteries immediately. Risk of release of chemicals.
- j) Replace all batteries at the same time. Use only batteries of the same type and do not use different types or new and used batteries together.
- k) Do not use the camera if the battery compartment cannot be closed properly and keep it away from children.

Proper use of the camera

NOTICE!

Improper use may damage the camera.

- a) Do not expose the camera to heavy mechanical loads and vibrations.
- b) Do not bend the shaft excessively adhere to the minimum bending radius of 30 mm.
- c) Keep the camera away from hot surfaces and objects.
- d) Keep only the camera head and the flexible shaft in tensionfree liquids. Do not immerse the camera and flexible shaft in more than 100 cm of liquid.
- e) Protect the handle and display from moisture.
- f) Avoid extreme temperature fluctuations. Condensation may take place in the camera and damage it.
- g) Do not use the camera if the plastic or metal parts of the camera are cracked or deformed.



Before Use

AWARNING!

Do not use the inspection camera in a potentially explosive atmosphere. Use the inspection camera only in ambient temperatures between 10 - 40°C.

Check the inspection camera and scope of delivery

- Take the inspection camera and accessories out of the packaging.
- Check that the delivery is complete (see section "Scope of delivery / Description of parts").
- Check the inspection camera and accessories for damages.
- Do not use the inspection camera if it is damaged or parts are missing. Contact the service centre listed on the warranty card.



Inserting / replacing the batteries

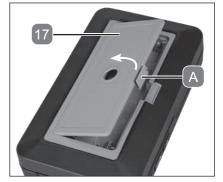
You need four LR6 / AA 1.5 V batteries to operate the inspection camera 10 (included in the supply).

You need to insert or replace the batteries in the following situations:

- when using it for the first time;
- if the status line of the display 29 shows the battery symbol ;
- when the inspection camera cannot be switched on.

The battery compartment 19 is at the back of the inspection camera. Proceed as follows to insert or replace the batteries:

- Press the locking tab A and lift the battery cover 17.
- If necessary, remove the used batteries and dispose of them properly.
- Insert four new batteries of the type LR6 / AA according to the polarity markings () inside the battery compartment.
- Replace the battery compartment cover and press it down until the locking tab clicks into place.
- Press the flap of battery compartment cover conciously back so that it snaps into place.





Remove the batteries if the inspection camera will not be used for a long time.



Mounting / removing the tripod

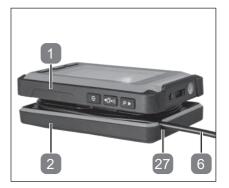
For stability, the inspection camera is provided with a 1/4"-20 UNC tripod thread 18 on the back (centre of the battery compartment 6).

- Turn the fine thread screw holder of the tripod (not included in the supply) clockwise into the tripod thread of the inspection camera.
- · To remove proceed in the reverse order.

Coiling / uncoiling the flexible shaft

The inspection camera has an integrated protective housing for the flexible shaft 6 which can be opened by accordion-like mechanism.

- Separate the rear part of the housing 2 and the front housing part 11.
- Uncoil the flexible shaft from the housing to the desired length.
- Guide the flexible shaft through the outlet 27.
- Close the housing again by pushing the rear and front parts of the housing together.



 For packing the flexible shaft proceed in same order and coil the flexible shaft.



Usage - General applications

Switching the inspection camera on / off

Switching on:

- Press and hold the "On / Off switch"
 g for 2 about seconds.
 - The red indicator light 28 at the top, right corner of the display 29 begins to glow continuously.
 - The display shows a home screen with VIRAX logo for about 3 seconds and then switches to standby mode (indicated by the 3 modes on the display).





Switching off:

- Press and hold the "On / Off switch" 9 for two seconds.
- · The red indicator light continues to glow.

Standby screen:

- Press the "On / Off switch" 9.
- · Press any button to activate the screen again.
- · The red indicator light goes out.



Switching the LED work light on / off

Switching on:

- Turn on the inspection camera (see chapter "Switching the inspection camera on / off").
- Press the "LED work light / laser pointer" function switch
 to switch on the LED work light 25.



Switching off:

 Press the "LED work light / laser pointer" function switch again to switch off the LED work light.



The LED work light can be switched on and off in any mode (except during playback and / or when deleting images).



Switching the laser pointer ON / OFF

Switching on:

- Turn on the inspection camera (see chapter "Switching the inspection camera on / off").
- Keep the "LED work light / laser pointer" function switch 3
 pressed for at least two seconds to switch on the laser pointer 26.



Switching off:

 Press and hold the "LED work light / laser pointer" function switch for another two seconds to switch the laser pointer off.



The laser pointer can be switched on and off in any mode (except during playback and / or when deleting images).

Selecting the mode

- Turn on the inspection camera (see chapter "Switching the inspection camera on / off").
- Depending on the required application, press the following selection switch "Distance measurement" 23, "Camera recording" 22 or "Temperature measurement" 20.



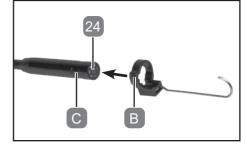


Mounting / removing the inspection attachments

- Coiling the flexible shaft 6 (see chapter "Coiling / uncoiling the flexible shaft")
- Select the appropriate inspection attachment 13, 14, 15, 16.

Magnetic attachment 15	is useful for locating and retrieving metallic items from places that are difficult to reach
Hook and double hook attachment 13, 14	is useful for locating and retrieving items from places that are difficult to reach
Mirror attachment 16	is useful for locating lost items and for determining the quality of the item being examined in areas / positions that are difficult to reach.

- Slide the opening of the Binspection attachment clip over the LED camera unit 24.
- Insert the clip into the groove of the camera unit ...



 To remove, lift the clip of the inspection attachment carefully and pull out the inspection attachment.





Usage - Camera recording

- Turn on the inspection camera (see chapter "Switching the inspection camera on / off").
- Optional: Mounting a tripod (see Chapter "Mounting / Removing the tripod")
- Coiling the flexible shaft 6 (see chapter "Coiling / uncoiling the flexible shaft")
- Switch to "Camera recording" mode (see chapter "Selecting the mode").
- Press the "Camera recording" selection button 6 to take a photo.

Switching the LED camera light on / off

The symbol $\frac{1}{2}$ at the upper left corner of the display indicates the brightness of the LED camera light 6 in 7 levels.

By default, the LED camera light is configured to level 3 each time the inspection camera is switched on.

The levels are displayed using the dots next to the symbol.

- Press the "LED brightness / DOWN" function switch 8 to increase the brightness of the LED camera light 24 by one level in the "Camera recording" mode.
 - At maximum brightness, the LED camera light switches off if it is pressed again and can be switched on from level 1 by pressing it again.







Zooming

The symbol $\mathbf{Q}^{2\mathbf{X}}$ at the upper right corner of the display, indicates the magnification / zoom factor in four levels.

The levels are displayed by the number next to the symbol.

 Press the "Zoom / UP" function switch 7 to increase / reduce the zoom in the "Camera recording" mode.



- By repeatedly pressing the "Zoom / UP" function switch, the magnification / zoom factor can be increased up to 4 times and then reverts back to the default setting.



Setting the display alignment

The symbol **F** at the upper left corner of the display indicates the alignment of the display / camera image in 4 levels (see chapter "Explanation of symbols").

- Press the "Delete / alignment" function switch 4 to rotate the screen alignment in the "Camera recording" mode.
 - Repeatedly pressing the "Delete / alignment" function switch changes the alignment of the camera perspective between 0° - 180° - 0° (mirrored) - 180° (mirrored).

F	Indicates the orientation of the display at 0°.
4	Indicates the orientation of the display at 180°.
Ł	Indicates the orientation of the display at 180° (mirrored).
7	Indicates the orientation of the display at 0° (mirrored).

Adjusting background brightness

The symbol 4 at the upper left corner of the display indicates the background brightness of the display / camera image in 7 levels (see chapter "Explanation of symbols").

- Press and hold the "Playback / display brightness" function switch 5 to increase the background brightness in the "Camera recording" mode.
 - By repeatedly pressing the "Playback/ display brightness" function switch, the brightness can be increased up to 7 times and then reverts back to the default setting.

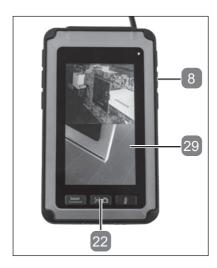


Colour change

 Press and hold the "Delete / alignment" function switch 4 to switch between colour and black / white view in the "Camera recording" mode.

Freezing images

- Press and hold the "LED brightness / DOWN" function switch 8 for at least 2 seconds.
 - The upper half of the display freezes and the display 29 divided into two sections.
 - The lower half of the display continues to show the "Camera recording" mode.
- Press the "Camera recording" selection button 22 to take a photo.
 - The photo is then displayed in the frozen section of the display.





The frozen image is not saved.

• Press and hold the "LED brightness / DOWN" function switch for at least 2 seconds to change back to the full-screen mode.



Seeing images

- Press the "Playback / display brightness" function switch in the "Camera recording" mode
- Select the desired image using the following function switch.
 - Function switch "Zoom / UP" 7
 - Function switch "LED brightness / DOWN" 8 .

Deleting images

- Press the "Playback / display brightness" function switch in the "Camera recording" mode 5.
- Select the desired image using the following function switch.
 - Function switch "Zoom / UP" 7.
 - Function switch "LED brightness / DOWN" 8 .
- Press the Delete / alignment function switch 4 to
 - delete the displayed image either by pressing the Delete / alignment function switch again;
 - to delete all the saved images using the "Camera recording" selection button 22;
 - or to exit the submenu using the Playback / display brightness function switch
- Press the Playback / display brightness function switch to exit the memory.

Transferring images

- · Open the USB cover.
- Plug the mini USB connector of the USB cable 12 into the USB socket
- · Connect the USB cable to the computer.
 - The display 29 shows an USB symbol •—.
 - The inspection camera is detected by your computer as a separate drive.
- · Copy the images to your computer.





Please note that deleted images can not be restored.

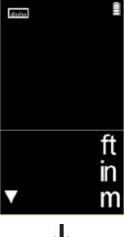
Usage - Distance measurement



The measurable distance range is between 0.05 and 20 m (+/- 3mm). Use the "Zoom / UP" function switch and the "LED brightness / DOWN" function switch 8 to define the measurement starting point. The default measurement starting point is the base of the camera housing.

Changing the starting point deletes the history. 4 memory spaces are available for distances, the reading is pushed up by one place after each measurement.

- Turn on the inspection camera (see chapter "Switching the inspection camera on / off").
- · Optional: Mounting a tripod (see Chapter "Mounting / Removing the tripod")
- Change to the "Distance measurement" mode (see chapter "Selecting the mode").
 - The "Distance measurement" mode is shown in feet (ft), inches (in) and meters (m) on the display 29.





- Press and hold the "Distance measurement" selection switch 23.
 - The measuring point is marked by the laser pointer 26 with a red dot.
 - The reading continuously changes with the measurement point.
- 63.6ft 763in ▼ 19.40m
- Release the "Distance measurement" selection switch.
- The last reading continues to be shown on the display (upto 3 results).
- To start a new measurement, press and hold the "Distance measurement" selection switch again.





Usage - Temperature measurement



The measurable temperature range is between -20 °C and + 350 °C. 5 memory spaces are available for temperature measurement, the reading is pushed up by one place after each measurement. The maximum recommended measuring distance is 1 m and has a ratio of 8: 1 (D:S)

- Turn on the inspection camera (see chapter "Switching the inspection camera on / off").
- Optional: Mounting a tripod (see Chapter "Mounting / Removing the tripod")
- Change to the "Temperature measurement" mode (see Chapter "Selecting the mode").
 - The "Temperature measurement" mode is shown in Fahrenheit (° F) and Celsius (° C) on the display 29.





- Press and hold the "Temperature measurement" selection switch 20.
 - The measuring point is marked by the laser pointer 26 with a red dot.
 - The reading continuously changes with the measurement point.
- Release the "Temperature measurement" selection switch.
 - The last reading continues to be shown on the display (upto 4 results).



 To start a new measurement, press and hold the "Temperature measurement" selection switch again.



Ambient temperature (Tamb)	Object temperature (Tobj)	Measurement tolerance
≥ 200° C	≥ 200° C	(Tobj* ±2%)° C
Between 0 and 85° C	Between 0 and 200 ° C	±2° C
Between 0 and -20° C	Between 0 and 200° C	±3° C
Between -20 and 85° C	< 0° C	±3° C



Maintenance, cleaning, storage and transport



Remove the batteries of the inspection camera before carrying out any adjustments, maintenance or repair.

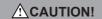
Maintenance

The inspection camera requires very little maintenance.

Only use spare parts / accessories from the manufacturer or authorised and qualified workshops.

Repairs should only be carried out by qualified technicians or by an authorised service centre. Qualified technicians must have relevant training and experience, be familiar with the design and construction requirements of the product and understand and follow the safety regulations.

Cleaning



Make sure that liquids do not get inside the inspection camera.

 Clean the inspection camera using a moist cloth. Never use strong and / or abrasive cleaning agents or solvents. Allow all the parts to dry completely.



Storage

- Remove the inspection attachments before storing them (see chapter "Inserting / removing the inspection attachments").
- Remove the battery before storing it (see chapter "Inserting / replacing the battery").
- · Clean the inspection camera before storage.
- If the inspection camera is not being used, keep it in a safe, cool, dry and well-ventilated place, out of the reach of children.
- Store the inspection camera and the batteries at an ambient temperature of 0 - 45°C and always in the carry case
- Store the inspection camera and the USB cable and the inspection attachments always in the carry case.

Transport

- Remove the inspection attachments before transport (see chapter "Inserting / removing the inspection attachments").
- Remove the batteries before transport (see chapter "Inserting / replacing the battery").
- Transport the inspection camera, the USB cable and the inspection attachments in the carry case and protect them from shocks and vibrations



Troubleshooting

Problem	Possible cause	Rectification
The camera is	The batteries are	Remove the batteries and
not working.	inserted incorrectly.	insert them properly. Pay
		attention to the correct
		polarity (see chapter
		"Inserting / replacing the
	The batteries are dead.	batteries").
	The patteries are dead.	Replace all four
		batteries with new ones (see
		chapter "Inserting / replacing batteries") .
The camera	The batteries are dead	Replace all four batteries with
does not display	or very weak.	new ones.
any image or the		
image is very	The lighting in the	Increase the light (see
poor.	camera head is not	chapter "Switching the LED
	adequate.	camera light on / off").
		Increase the brightness
		(see chapter "Adjusting the
	The brightness of the	background brightness").
	display is not adjusted	
	correctly.	
The image	The camera head	Pull the flexible shaft out
suddenly	came into contact with	and switch off the camera
disappears or	electrical parts.	for a moment. If necessary,
there is a lot of disturbance.		switch off the mains fuse for that area. Then start the
disturbance.		
		inspection again.



Technical data

Reference	294200
Display	10.92 cm/ 4.3" screen size
Resolution of camera head	640 x 480 pixels
Resolution of display	480 x 272 pixels
Camera light	6 LEDs, white (0603x6), free group (risk group 0) according to EN 62471
Power source	6 V === (4 x 1.5 V LR6 (AA) batteries)
Length of flexible shaft	approx. 105 cm
Insulation category - flexible shaft	IP 67
Bending radius	30 mm (min.)
Diameter of camera head	Ø 8 mm
Laser class:	Class 2
Protection class of housing	IP44



Recycling

Disposal of packaging



Dispose of packaging separately. Dispose of card and paper in waste paper, plastic at collection points.

Disposal of inspection camera



This symbol indicates that this product may not be disposed of together with domestic waste in compliance with the (2012/19/ EC) directive pertaining to waste electrical and electronic devices (WEEE). This product should be handed over at an designated collection point. This can occur, for example, by returning it when a similar product is purchased or by handing it in at an authorised collecting point for the recycling of waste electrical and electronic equipment. Owing to potentially hazardous substances that are frequently contained in waste electronic equipment, incorrect handling of waste equipment may have a negative impact on the environment and on the health of human beings. By disposing of this product correctly, you are also contributing towards an efficient use of natural resources. Information on collection points for used equipment can be obtained from your local authority, the public waste disposal authority, an authorised institution for the disposal of used electrical and electronic equipment or the waste collection services. Dispose of device and packaging in an environmentally friendly manner.

The batteries have to be removed from the inspection camera before disposal.



Do not dispose of spent batteries with the household waste, instead hand the batteries in at a designated collection point (dealership or local authority recycling facility).

Declaration of conformity

The EU declaration of conformity can be downloaded from www.virax.com.

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- ES Encuentra el listado de distribuidores en www.virax.com
- PT Encontre a lista de nossos revendedores www.virax.com
- NL Vind de lijst van onze resellers www.virax.com
- EL Συμβουλευτείτε τη λίστα των διανομέων μας στο www.virax.com
- PL Liste naszych dystrybutorów znajdziecie na www.virax.com
- DE Eine aktuelle Liste unserer Handelspartner finden Sie unter www.virax.com
- CS Seznam našich prodejců najdete na www.virax.com
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