

Videoscope PCE-VE 1500-38209



Videoscope for inspecting vehicles, machines, etc.

with front and side camera / Diameter of camera cable 3.8 mm / Length of camera cable approx. 1.85 m /

Motorized 4-way camera head / IP67

High-quality endoscope with simultaneous image display for front and side cameras

This videoscope is the only device in the PCE-VE 1500 series that is equipped with two cameras. One of them faces the front and the other faces the side. Both are positioned very close together on the camera head. An LED is arranged next to each of the cameras, with which the field of view can be illuminated if required. Settings on the endoscope for the image representation on the display and for the lighting of the camera field of view are effective for both cameras and both light sources at the same time.

The user can choose at any time whether the videoscope shows the current image from the front camera, the side camera or both side by side on the large touchscreen display. The simultaneous display of both cameras makes orientation during the visual inspection much easier. In addition, it is advantageous to be able to use both the front and the side camera, especially when space is very limited.

However, pictures and videos cannot be taken simultaneously with both cameras. When recording in the viewing mode in which both cameras can be seen, only the images from the activated camera are saved by the endoscope. If the user has activated image captions, then these only appear on the image of the activated camera. By default, the boroscope offers under the menu item Watermark, for example, overlays such as the date and time or the camera designation as CAM1 or CAM2. When the camera is activated, the selected captions appear in small red font at the edge of the image. If the other camera is to be activated, this is very easy to do with this endoscope via the touchscreen. All you have to do is double-tap on their image in the view in which the images from both cameras are shown side by side.

The flexible endoscope cable, which is only 3.8 mm thick, is approx. 1.87 meters long from the front edge of the camera head to the rubber coating in the connection area. This means that internal surfaces and parts that are only accessible through very narrow openings can also be examined in detail with this boroscope. The camera head, which can be bent in all directions using a joystick, has a length of 42 millimeters and a bending radius of 35 mm at a bending angle of 90 degrees.

Special features of the PCE-VE 1500 series

Each videoscope in this series has the same basic device with extensive functions and useful accessories. The individual models differ only in the different cameras and the lengths and diameters of the camera cables. The operation of these endoscopes is very convenient thanks to the function keys, touchscreen and joystick on the basic device.

Subject to change

With the battery and camera unit, the videoscope weighs just over two kilograms. The device can easily be carried with one hand. Depending on the environment, the shoulder strap, a magnetic holder or a tripod can also be attached to the attachment points provided for longer periods of use. While the endoscope is held with one hand, the joystick and the function keys on the handle can also be operated with the same hand. These function keys include the picture trigger and the light intensity control key for the camera's field of view. The camera cable can be guided with the other hand.

Exchangeable endoscope cable with motor

One of the standard features of these videoscopes is the motorized movement of the camera head. That's why the camera, camera cable and motor are designed as a single unit. This complete camera unit can be easily replaced if necessary. The connection to the basic device of the endoscope can be fixed and released again very easily. To increase durability, the cable is covered with tungsten braid and the tip of the camera head is made of titanium alloy.

Control of the camera head via joystick

The camera head of the videoscope can be moved with the joystick in order to use the camera's angle of view to precisely capture the areas that are to be examined. The movable camera head can be bent in all directions, in places by more than 180 degrees. The joystick is designed and placed between the handle and the display so that it can be easily operated with just one finger.

Touchscreen functions

The videoscope not only shows the current and saved images individually on the seven-inch display. With the picture in picture function, it also allows the current picture to be compared with a saved one. As a touchscreen, the monitor also offers very easy and quick access to the menu functions. The diverse functions that the borescope offers for marking details and placing annotations on the images would hardly be usable without the touchscreen.

The current and saved images can be digitally enlarged several times on the display. All you have to do is double-tap the image or pull it apart with two fingers. If necessary, the enlarged section can be moved with your finger on the touchscreen. This allows the complete image to be checked directly on the endoscope. Important details on saved images can be immediately circled in colour, marked with arrows or labeled on the touchscreen. These tagged images can then be saved under the old name or as additional images.

With the icons for the additional functions, it is possible to operate the videoscope intuitively via the touchscreen. With the help of the picture-in-picture function, for example, the current live picture can be compared with a picture that has just been "frozen" or with a picture that has been saved earlier. By default, the live image appears as a section at the top right. Double tapping it will make it the big picture and the older picture will switch to the top right.

Interfaces

The videoscope has the following connections for data transmission: USB-A, USB-C, HDMI, audio, WiFi and a memory card slot for SD cards up to 128 GB. All interfaces are arranged in the basic device to the left of the touchscreen under a cover.

- ▶ Motorized 360° 4-way articulation with joystick
- ▶ Adjustable lighting of the camera field of view
- ▶ 7 inch touch screen
- ▶ 8x digital zoom
- ▶ Image can be rotated and mirrored on the display
- ▶ Picture in picture function to compare details
- ▶ Marking and labeling functions
- ▶ Interfaces: USB-A, USB-C, Mini-HDMI, Audio, WiFi, SD memory card slot
- ▶ Storage format for images JPG, for videos MP4
- ▶ Report function with images and texts as PDF
- ▶ With two rechargeable batteries that can be charged via the mains unit
- ▶ Stable trolley case with extensive accessories

Subject to change

Specifications

Diameter	3.8mm / 0.15"
Cable length	2 m / 6.5 ft
Camera direction	0° and 90°
Resolution	160,000 pixels
Focusing range	5 ... 50 mm / 0.19 ... 1.96"

Further specifications

Material camera head	titanium alloy
Material camera hose	braided tungsten
Material camera lens	glass
Field of view	120°
Illuminance	50,000 lux
Bending direction	360° (4-way camera head)
Bending angle	190°
Display	7" LCD touchscreen
Display resolution	1920 x 1200 pixels
Image format	JPG
Video format	MP4
Image resolution	1280 x 720 pixels
Video resolution	1280 x 720 pixels
Digital magnification	8 times
Memory (internal)	16 GB
Memory (external)	expandable up to 128 GB for ca. 285,000 pictures or 1500 minutes of video recording
Interface	Mini HDMI, USB-A, USB-C (only for data transfer) audio interface, WiFi
Power consumption (endoscope)	10 W
Operating time	>3 hours
Battery	7.4 V (4 x 18650), 6400 mAh, removable
Battery (charging)	12 VDC, 3 A
Mains adapter	primary: 100 ... 240 VAC 50/60 Hz, 1.5 A secondary: USB-C (PD) 65 W maximum 5 VDC, 3 A 9 VDC, 3 A 12 VDC, 3 A 15 VDC, 3 A 20 VDC, 3.25 A PPS1: 3.6 ... 11 VDC, 3 A PPS2: 3.6 ... 20 VDC, 3 A

More information

More product info



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Operating conditions (hand-held device)	5 ... 50 °C / 41 ... 122 °F, <92 % RH, non-condensing
Operating conditions (endoscope cable)	5 ... 80 °C / 41 ... 176 °F, <92 % RH, non-condensing
Storage conditions	5 ... 63 °C / 41 ... 145 °F, <92 % RH, non-condensing
Dimensions	366 x 194 x 137 mm / 14.4 x 7.6 x 5.3"
Weight	handset weight: 1017 g / 35.8 oz endoscope cable with electric motor: ca. 600 g / 21.1 oz battery 550 g / 19.4 oz

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