

# Videoscope PCE-VE 1500-60500



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**Videoscope for visual inspection of hard-to-reach cavities**  
**camera cable 5 m long / only 6 mm camera diameter / frontal camera arrangement**  
**motor-driven 4-way camera head, controllable via joystick / camera cable IP67**

The videoscope PCE-VE 1500-60500 with the high-resolution camera, the camera diameter of only 6 mm and the five-meter-long camera cable is particularly suitable for inspecting the inside of pipelines, large vessels or machine components. The practical functions for marking and annotating the captured images directly with the touch screen considerably reduce the effort for the subsequent documentation of the found condition.

If the inspection images need to be evaluated directly on site, this can be done quickly and easily with this videoscope. The robust design and the high degree of protection IP 67 of the camera cable allow it to be used even under difficult conditions. Camera and camera cable may even be immersed in water, salt water or oil for up to 30 minutes during the inspection.

All videoscopes of this series can be operated very comfortably by means of function keys, touch screen and joystick. The handle fits so securely and comfortably in the hand that the image trigger, joystick and almost all function keys can also be operated with the same hand. Depending on the space available and accessibility of the examination site, however, a tripod, a magnetic holder or the shoulder strap can also be used to keep the hands free and still have the display in view.

For inspections of safety or function-relevant components of buildings, technical plants, machines or vehicles, this videoscope offers extended possibilities for the documentation of visual examinations. Both for quality controls in the manufacturing plant and for regular or unscheduled inspections at the point of use, the extensive marking functions simplify the creation of comprehensible images for inspection reports.

### Camera features

The camera on this videoscope is front-facing and has a very wide 120 ° angle of view. The field of view can be illuminated by switching on LEDs. This illumination can be adjusted to the environment in six steps at the touch of a button so that details are clearly visible. The high resolution of the camera, the large angle of view and the focus range of 10 to 100 mm enable meaningful and detailed images.

### Camera cable

The camera cable has a diameter of 6 mm and is 5 m long. With these dimensions, the videoscope is well suited for the inspection of longer distances inside narrow pipelines, large turbines, large vessels or extensive cavities in which technical installations are located. The camera head is made of a very resistant titanium alloy, the sheathing of the videoscope cable is made of braided tungsten. The cable is connected to the motor unit and via this unit is connected to the evaluation and control unit. The connection to the handheld device can be quickly and securely fixed and released. The very flexible camera head, which can be moved by motor to change the viewing direction, is 60 mm long. For a 90-degree bend to change the viewing direction, the 60 mm long camera head requires a bending radius of 50 mm. To examine other areas of the object under examination, the videoscope cable with straight camera head is simply pushed further or pulled back.

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## **Touchscreen**

The videoscope is equipped with a 7-inch touchscreen offering an image resolution of 1920 x 1200 pixels. Menu functions can be easily started and ended via the touchscreen using the icons at the edges of the image. To enlarge the current image, it is sufficient to simply tap on it or pull it apart with two fingers.

## **Function menu**

Via the symbols on the operating keys and the icons on the touchscreen mean, the videoscope can be operated without instructions after only a short time, despite many special functions. For example, the current image can be easily rotated ninety degrees at a time by tapping the corresponding icon, making it easier to assign the details of the image content. The picture-in-picture function allows another, already stored image to be called up in addition to the current image. In this way, the currently examined location can be compared directly on the touchscreen with a similar situation elsewhere or with the condition during the previous inspection. To do this, it is possible to select by tapping whether the live image is displayed large as a background or as a section in the saved image.

One of the special functions of this videoscope is the report function. Images can be selected for the report and saved as a PDF together with explanatory texts. In addition, each saved image can be provided with predefined or self-created image stamps so that it can be more easily assigned to the correct project and the respective position. Coloured markers, which can be easily drawn on the image with the finger, allow the details to be highlighted quickly.

Images and videosThe videoscope not only shows live images on the display, it can also save images and videos. Images are stored as JPG and videos in MP4 format. The storage location can be selected between internal memory, USB stick or SD card. Via the markers and image stamps easily inserted into the image via touch screen after saving, the expressiveness of the images can be improved without much effort.

## **Power supply**

The scope of delivery of the videoscope includes two special rechargeable batteries, which can be exchanged very easily. This means that when the first battery is empty, work can be continued immediately with the second battery. If a charging facility is available on site, the battery can also be charged while the videoscope is in use. The capacity of a fully charged battery is 6,400 mAh and enables an operating time of more than 3 operating hours.

## **Accessories**

The PCE-VE 1500-60500 videoscope is supplied in a robust wheeled case, which can be tightly closed thanks to a quadruple locking and rubber coating. In addition to the videoscope, the case contains two device-specific batteries as standard, the matching power supply and a USB-C cable for charging, an HDMI cable for transferring data, a 64 GB SD memory card and an SD card reader with USB port, as well as a shoulder strap and, of course, the operating instructions.

## Technical specifications of the videoscope PCE-VE 1500-60500

- ▶ Length camera cable 5 m
- ▶ Camera diameter 6 mm
- ▶ Viewing direction of the camera frontal
- ▶ Angle of view of the camera 120 °
- ▶ Camera resolution 1 million pixels
- ▶ Focus 10 ... 100 mm
- ▶ Length of bendable camera head 60 mm
- ▶ Radius of the camera head at 90 ° bending 50 mm

### Features of the PCE-VE 1500 series

- ▶ motorized 360 degree 4-way articulation with joystick
- ▶ bending angle partially greater than 180 degrees
- ▶ adjustable illumination of the camera field of view
- ▶ 7-inch large touch screen
- ▶ digital zoom eightfold
- ▶ image on display rotatable and mirrorable
- ▶ picture-in-picture function for comparing details
- ▶ marking and labelling functions
- ▶ Interfaces: USB-A, USB-C, mini HDMI, audio, Wi-Fi, SD memory card slot
- ▶ Storage format for images JPG, for videos MP4
- ▶ Report function with images and captions as PDFs
- ▶ with two rechargeable batteries, which can be charged by power supply unit
- ▶ robust rolling case with extensive accessories

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# Specifications

Diameter	<b>Ø6 mm / 0.23"</b>
Cable length	<b>5 m / 16.4 ft</b>
Camera direction	0°
Resolution	1 MP
Focusing range	10 ... 100 mm / 0.39 ... 3.9"

## 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

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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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