



# testo 318 Endoscope

0563 3185

Instruction manual





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# 1 About this document

- The instruction manual is an integral part of the instrument.
- Please keep this documentation available for future reference.
- Always use the complete original instruction manual.
- Please read this instruction manual through carefully and familiarize yourself with the product before putting it to use.
- Hand this instruction manual on to any subsequent users of the product.
- Pay particular attention to the safety instructions and warning advice in order to prevent injury and damage to the product.

## 2 Safety and disposal

### 2.1 Security

#### General safety instructions

- Only operate the product properly, for its intended purpose, and within the parameters specified in the technical data.
- Do not apply any force.
- Do not operate the instrument if there are signs of damage to the housing or connected cables.
- Dangers may also arise from objects to be measured or the measuring environment. Always comply with the locally valid safety regulations when carrying out measurements.
- Do not store the product together with solvents.
- Do not use any desiccants.
- Only perform maintenance and repair work on this instrument that is described in this documentation. Follow the prescribed steps exactly when doing the work.
- Use only original spare parts from Testo.

### Batteries

- Improper use of batteries may cause the batteries to be destroyed, or lead to injury due to current surges, fire or escaping chemicals.
- Only use the batteries supplied in accordance with the instructions in the instruction manual.
- Do not short-circuit the batteries.
- Do not take the batteries apart and do not modify them.
- Do not expose the batteries to heavy impacts, water, fire or temperatures in excess of 60 °C.
- Do not store the batteries in the proximity of metal objects.
- In the event of contact with battery acid: rinse affected areas thoroughly with water, and if necessary consult a doctor.
- Do not use any leaky or damaged batteries.

### Warnings

Always pay attention to any information denoted by the following warnings. Implement the precautionary measures specified!

 **DANGER**

Risk of death!

 **WARNING**

Indicates possible serious injury.

 **CAUTION**

Indicates possible minor injury.

 **ATTENTION**


Indicates possible damage to equipment.

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## 2.2 Disposal

- Dispose spent batteries in accordance with the valid legal specifications.
- At the end of its useful life, deliver the product to the separate collection point for electric and electronic devices (observe local regulations) or return the product to Testo for disposal.



-  WEEE Reg. No. DE 75334352

## 3 Product-specific information

- Do not use in areas with live parts!
- Do not look into the LED lighting of the camera head, as this can cause glare or eye damage.
- Do not use in areas where the camera may come into contact with moving parts.
- Do not operate the device in environments above 85 %rh (condensing).
- Do not use the device outdoors when it is raining or in similar situations. The device is recommended to be used indoors.
- Observe the permissible storage and transport temperature as well as the permissible operating temperature (e.g. protect the measuring device from direct sunlight)!
- Protect the display during storage and transportation and do not bring it into contact with sharp-edged objects, as these could scratch the display.
- Improper handling or use of force will invalidate the warranty!

## 4 Intended use

The testo 318 endoscope is designed for the inspection of flues, chimneys, boilers, air conditioning and ventilation systems for the simple, precise and fast identification of sources of interference.

### ATTENTION

#### Restrictions on the field of use

- **Do not use the instrument in potentially explosive atmospheres!**
  - **Do not use the device on or near live parts!**
  - **The device is not a medical device and must not be used on humans or animals.**
-

# 5 Product description

## 5.1 Instrument overview



1	Flexible, waterproof gooseneck (1 m)	2	LCD display (480 x 234 px, 2,4")
3	Accessories: - Magnet - Barb - Mirror	4	Batteries 4 x AA 1,5 V Alkaline
5	Pivoting camera with 9 mm (0.35") diameter	6	Battery compartment

### Symbol explanation

	Observe the operating instructions
	<b>⚠ WARNING</b> <b>Risk of electric shock!</b> - Do not use in areas with live parts!
	<b>CAUTION</b> <b>Risk of damage to property!</b> - Do not use in areas where the camera may come into contact with moving parts!



## 6 First steps

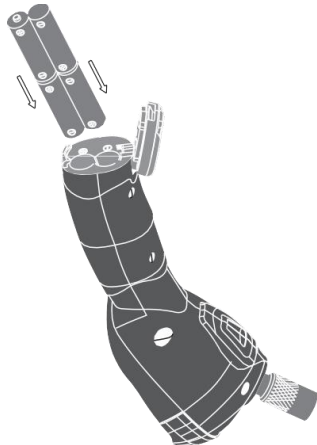
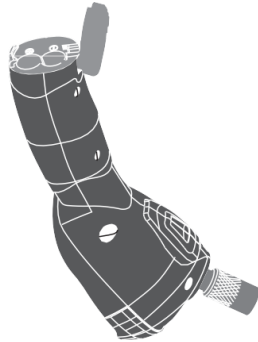
### 6.1 Inserting/changing batteries

**⚠ WARNING**

Serious risk of injury to the user and/or destruction of the appliance.  
 There is a risk of explosion if the batteries are replaced with the wrong type.

- Only use non-rechargeable alkaline batteries.

- ✓ The instrument is switched off.
- 1 Unlocking the battery compartment cover.
- 2 Opening the battery compartment.
- 3 Insert 4 x 1.5 V AA alkaline batteries (pay attention to the polarity!).
- 4 Close and lock the battery compartment.





When not in use for a long period: Take out the (rechargeable) batteries.

### Symbol explanation

	Do not allow children under 6 years of age to play with batteries.
	Do not throw batteries in the trash.
	Do not charge batteries.
	Do not place batteries near fire.
	Batteries are recyclable.

## 6.2 Installing/removing the gooseneck

The flexible gooseneck with integrated camera can be removed from the device for easier transportation.

### Fitting the gooseneck

- ✓ The device is switched off..
- 1 Plug the gooseneck onto the connection socket of the device and secure it with the union nut.  
To do this, turn it in the opposite direction of the engraved arrow and tighten it hand-tight.



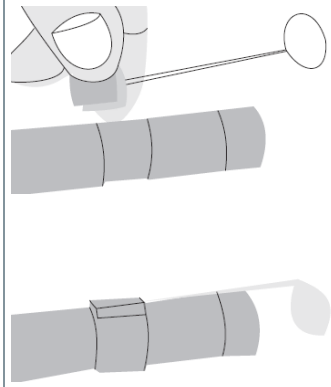
### Removing the gooseneck

- 1 To remove the flexible gooseneck, switch off the camera and proceed in reverse order.

## Attaching accessories

Identified sources of interference can be removed quickly and easily with the aid of barbs, mirrors or magnets.





- 1 Attach the required accessory (barb, mirror or magnet) to the recess at the end of the gooseneck.




## 6.4 Getting to know the product

### 6.4.1 Controls



1	LCD display (480 x 234 px, 2,4")
2	 On/Off key
3	 <b>Bright</b> key (adjust LED brightness)
4	 Zoom key
5	 key (rotate display by 180°)

## 6.4.2 Switching the instrument on and off

1 Press and hold down (1 sec) the  On/Off key.


▶ The LED indicator above the display lights up green if the batteries are still supplying sufficient power.


If the LED lights up red, the batteries need to be replaced soon..



## 6.4.3 Adjusting the LED brightness

The camera has LED lighting integrated in the camera head with 10-stage brightness adjustment. This is used to adapt to different lighting and viewing conditions and ensures clear and detailed images.

1 Press the  key briefly to increase the brightness once..

2 Press and hold the  key to increase the brightness continuously.

▶ A progress bar at the bottom of the display shows the current brightness setting.



## 6.4.4 Adjusting the zoom

Thanks to the 2x digital zoom, areas that are difficult to access can be inspected more precisely.

1



Press the key to enlarge the camera image.

- ▶ The currently selected zoom factor is shown in the top left corner of the display..



## 6.4.5 Rotate camera image

The device has a 180° image rotation function to make it easier to view upside-down situations.

1



Press the key to rotate the camera image by 180°.

- ▶ The camera image is displayed upside down.



2



Press the key again to undo the rotation.

# 7 Maintaining the product

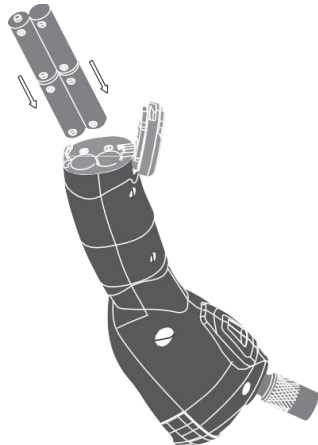
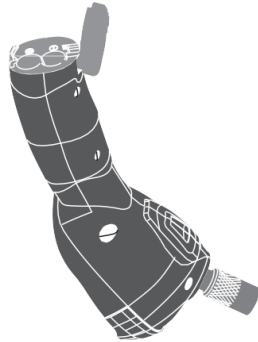
## 7.1 Inserting/changing batteries

### **⚠ WARNING**

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**- Only use non-rechargeable alkaline batteries.**

- ✓ The instrument is switched off.
- 1 Unlocking the battery compartment cover.
- 2 Opening the battery compartment.
- 3 Insert 4 x 1.5 V AA alkaline batteries (pay attention to the polarity!).
- 4 Close and lock the battery compartment.





When not in use for a long period: Take out the (rechargeable) batteries.

## 7.2 Cleaning instruments



Do not use any aggressive cleaning agents or solvents! Mild household cleaning agents and soap suds may be used.

> If the instrument housing is dirty, clean it with a damp cloth.

## 8 Technical data testo 318

Feature	Value
Camera resolution	640 x 480 Pixel
Display resolution	480 x 234 Pixel
Picture rate	>24 FPS
Field of view	70°
Display	2,4" LCD Display
Zoom	2x (1.0, 1.2, 1.4, 1.6, 1.8, 2.0)
Operating temperature	-10 ... +50 °C / +14 ... +122 °F
Operating humidity	5 to 85 %RH / For indoor use only
Storage temperature	-20 ... +60 °C / -4 ... +140 °F
Max. operating altitude	≤ 2000 m above sea level
Batteries	4x Alkaline AA 1,5 V, 2400 mAh (supplied)
Lifetime	8 hrs (40% Brightness-LED)
IP Class	IP40 (Device) IP 67 (Gooseneck with camera)
Dimensions	235 x 79 x 104 mm / 9.25 x 3.11 x 4.09 in Length gooseneck 1 m / 39.37 in Camera diameter: 9 mm / 0.35 in
Weight	Device (incl. batteries): 385 g / 13.58 oz Gooseneck with camera: 169 g / 5.96 oz
Directive	2014/30/EU



## 9 Tips and assistance

### 9.1 Questions and answers

Question	Possible cause	Possible solution
LED lights green	Battery voltage sufficient	-
LED lights red	Battery voltage too low	Replace batteries soon.
LED flashes red	Batteries are empty	Replace batteries.

### 9.2 Accessories and spare parts

Description	Order no.
Gooseneck	On request
Barb, mirror or magnet	On request

## 10 Support

You can find up-to-date information on products, downloads and links to contact addresses for support queries on the Testo website at: [www.testo.com](http://www.testo.com).

If you have any questions please contact your local dealer or the Testo Customer Service. You can find contact details on the back of this document or online at [www.testo.com/service-contact](http://www.testo.com/service-contact).



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