

ROSCOPE mini

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EN Instructions for use



A Overview



Please read and retain these directions for use. Do not throw them away! The warranty does not cover damage caused by incorrect use of the equipment! Subject to technical modifications!

EU-DECLARATION OF CONFORMITY

We declare on our sole accountability that this product conforms to the standards and guidelines stated.



2014/35/EU, 2014/30/EU, 2011/65/EU,
EN 62841-1, EN 55032, EN 55024+A1,
EN 50581

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1	Safety Notes.....	3
1.1	Intended use	3
1.2	Safety instructions	3
2	Technical Data	4
3	Function of the Unit.....	4
3.1	Overview (A)	4
3.2	Assembly	4
3.3	Operation	5
3.4	Commissioning.....	5
3.5	Working Advice	5
4	Care and Maintenance.....	6
5	Customer service	6
6	Disposal	6

Markings in this document:



Danger!

This sign warns against the danger of personal injuries.



Caution!

This sign warns against the danger of property damage and damage to the environment.



Call for action

1.1 Intended use

The digital inspection camera is suitable for inspecting hard to reach locations or dark areas. After mounting the provided accessories to the camera head, it is also suitable for moving and removing small and light objects (e.g., small screws).

The digital inspection camera may not be used for medicinal purposes. It is also not suitable for repairing pipe clogs or pulling in cables.

The light in the camera head is intended to illuminate the direct work area of the digital inspection camera and is not suitable for household room illumination.

1.2 Safety instructions



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

- **Have the inspection camera repaired only through a qualified repair person and only using identical replacement parts.** This will ensure that the safety of the inspection camera is maintained.
- **Do not operate the inspection camera in explosive atmospheres, such as in the presence of flammable liquids, gases or dusts.** Sparks can be created in the inspection camera which may ignite the dust or fumes.
- **Do not direct the light beam at persons or animals and do not stare into the light beam yourself (not even from a distance).**
- **Check the working range before using the inspection camera. No part of the inspection camera may come into contact with electrical lines, moving parts or chemical substances. Interrupt the power circuit of electrical lines in the working range.** These measures reduce the risk of explosion, electric shock and property damage.
- **Wear appropriate protective equipment such as safety glasses/goggles, protective gloves or respirator when materials that are hazardous to one's health are in the working range.** Sewer lines or similar areas can contain solid, liquid or gaseous substances, which may be toxic, infectious, caustic or otherwise hazardous to one's health.
- **Pay particular attention to cleanliness when working in areas with substances that are hazardous to one's health. Do not eat during work.** Avoid contact with substances that are hazardous to one's health. After finishing your work, wash hands and other affected body parts that may have come into contact, with warm soapy water.
- **Do not stand in water when using the inspection camera.** When standing in water while working, there is a risk of electric shock.

Magnet:

Keep the magnet away from cardiac pacemakers. The magnet generates a field that can impair the function of cardiac pacemakers.

- **Keep the magnet away from magnetic data medium and magnetically-sensitive equipment.** The effect of the magnetic can lead to irreversible data loss.

2 Technical Data

Part Number (basic unit).....	1500002878
Batterietyp.....	4 x 1,5V LR6 (AA)
Operating time, approx.	3,5 h
Rated voltage	6 V
Operating temperature	0°C - 50°C
Storage temperature.....	-20°C - 60°C
Relative humidity	95% RH non-condensing
Display resolution	320x240 RGB with LED backlight (2.5-inch Color)
Smallest bending radius of camera cable	25 mm
Diameter of camera head.	8,5 mm
Dimensions (L x W x H)	152 x 90 x 40 mm

3 Function of the Unit


3.1 Overview (A)

1	Hand unit	7	Magnet
2	Camera cable	8	Status bar
3	Camera head	9	Selected lighting/brightness
4	Battery lid	10	Storage capacity
5	Pull-out battery compartment	11	Selected magnification
6	Mirror	12	Battery indicator

3.2 Assembly

Inserting/Replacing the Batteries:

- To open the battery lid, press the latch and fold open the battery lid.
- Pull out the battery compartment and insert the batteries. When inserting, pay attention to the correct polarity according to the representation on the inside of the battery compartment.
- Slide the battery compartment all the way in and close the battery lid.

The symbol  will appear on the display if the charging condition of the batteries is low. When the battery symbol is empty, you have to replace the batteries because inspections are no longer possible.

Always replace all batteries at the same time. Only use batteries from one brand and with the identical capacity.

- ! Remove the batteries from the inspection camera when not using it for a prolonged period of time. The batteries can corrode and self-discharge during prolonged storage.

Mounting the Mirror, Magnet:

The mirror and the magnet can be mounted to the camera head as auxiliary aids.

- Slide one of the auxiliary aids to the stop onto the recess on the camera head as shown in the figure.

- ! The magnet is only suitable for moving and removing loose, small and light objects.

3.3 Operation



Keep the hand unit and the batteries dry and protect them from direct sunlight. The camera cable and camera head are waterproof when mounted correctly. However, the hand unit and the batteries are not protected against water. If they come into contact with water, there is a risk of electric shock or damage.



Do not subject the inspection camera to extreme temperatures or variations in temperature. As an example, do not leave it in vehicles for longer periods. In case of large variations in temperature, allow the inspection camera to adjust to the ambient temperature before putting it into operation.




Do not use the inspection camera when the lens on the camera head is misty or fogged-up. Do not switch the inspection camera on until after the moisture has evaporated. Otherwise, the inspection camera can become damaged.



The switched-on illumination light can become hot during operation. In order to prevent burns, do not touch the illumination light.

3.4 Commissioning

Switching On and Off:

→ To switch on the inspection camera, press the On/Off button . The start screen will be shown on the display for a short time.


→ To switch off the inspection camera, press the On/Off button  3s. again.

If no button is pressed on the inspection camera for approx. 20 mins, it will automatically switch off to save the batteries.

Regulating the Illumination Light in the Camera Head:


To brighten the camera image, you can switch on the illumination light in the camera head and adjust the brightness.

The brightness can be adjusted in 6 stages.


→ To switch on the camera illumination light and to increase the brightness, press button  repeatedly until the required brightness is reached.



Do not stare into the illumination light and do not direct it at other persons!
The brightness of the light can blind the eyes.

→ To reduce the brightness and to switch off the camera illumination light, press button  repeatedly until the required brightness is reached or the illumination light is switched off.

Magnifying the Image on the Display (Zoom):

Briefly pressing button , magnifies the image on the display (1.0x, 1.5x, 2.0x).

Status Bar:

The status bar is shown on the display for approx. 2 seconds after every button press. It shows:

- the selected magnification
- the selected brightness
- the charging condition of the batteries
- the storage capacity (max 30 pictures)

3.5 Working Advice

Check the area that you want to inspect and pay particular attention to obstructions or hazard areas. Bend the camera cable in such a manner that the camera head can be easily inserted into the area subject to the inspection.

Carefully guide the camera cable in.

Adjust the brightness of the illumination light so that the image can be seen well. For heavily reflecting objects, as an example, less light will provide a better image.

When objects to be inspected are represented unsharp, reduce or increase the distance between camera head and object.

4 Care and Maintenance

Do not immerse the hand unit into water or other fluids.

Keep the inspection camera clean at all times. Clean the inspection camera and all auxiliary aids particularly thorough after having worked in areas with substances that are hazardous to one's health.

Wipe off debris using a moist and soft cloth. Do not use any cleaning agents or solvents.

Especially clean the lens of the camera regularly and pay attention for any lint.

5 Customer service

The ROTHENBERGER service locations are available to help you (see listing in catalog or on-line) and replacement parts and service are also available through these same service locations.

Order your accessories and spare parts from your specialist retailer or using RoService+ online:

Phone: + 49 (0) 61 95 / 800 – 8200

Fax: + 49 (0) 61 95 / 800 – 7491

Email: service@rothenberger.com

www.rothenberger.com

6 Disposal

Components of the unit are recyclable material and should be put to recycling. For this purpose registered and certified recycling companies are available. For an environmental friendly disposal of the non-recyclable parts (e.g. electronic waste) please contact your local waste disposal authority.

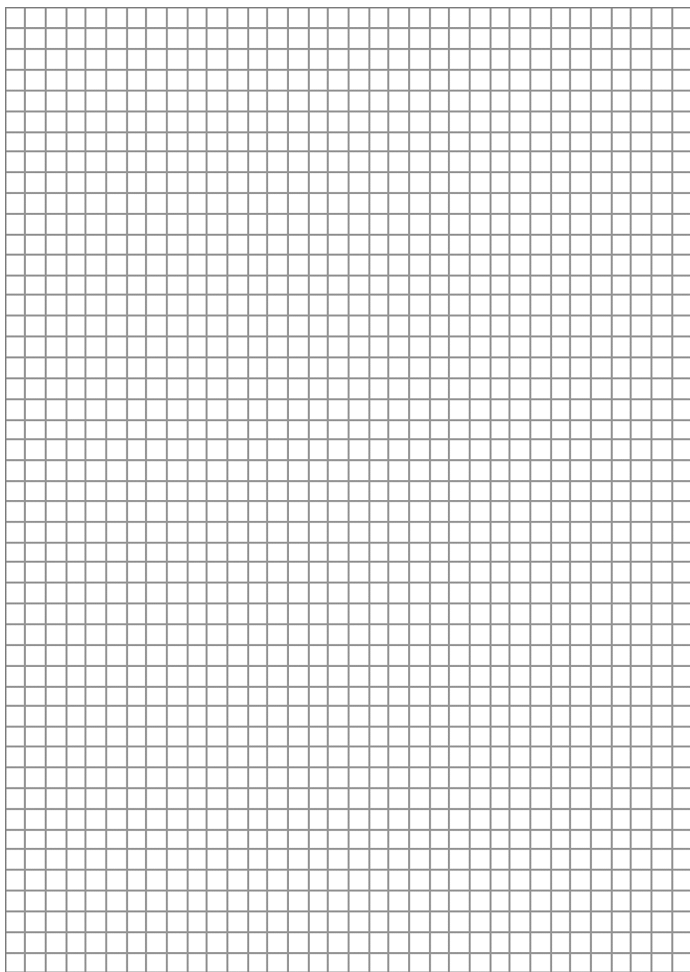
Old batteries can be taken to your specialist dealer who will dispose of them in conformity with environmental regulations.

For EU countries only:

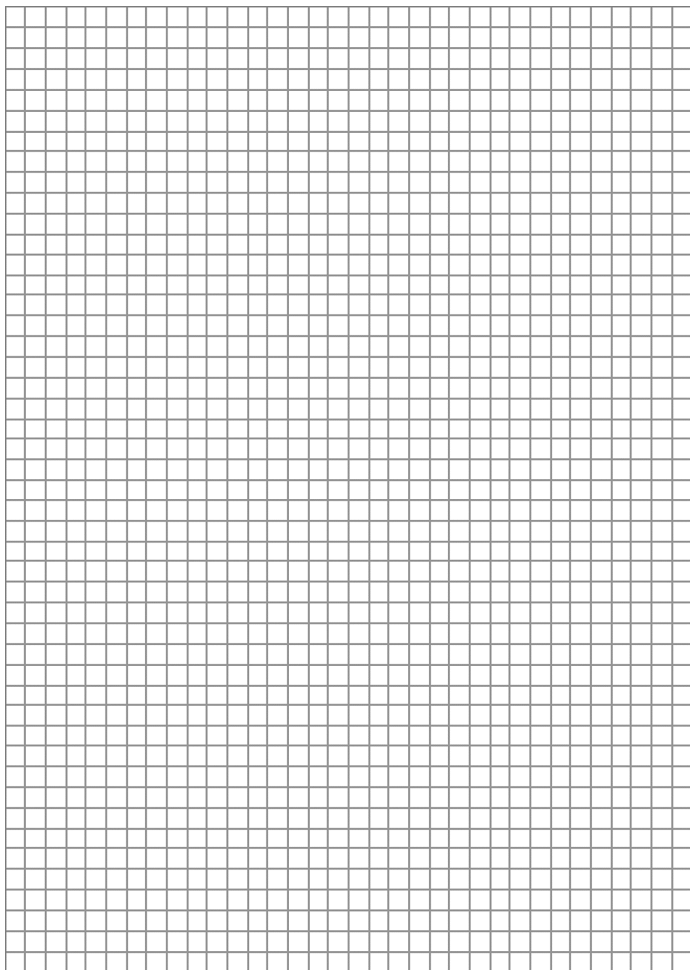


Do not dispose of electric tools with domestic waste. In accordance with European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation as national law, electric tools that are no longer serviceable must be collected separately and utilised for environmentally compatible recycling.

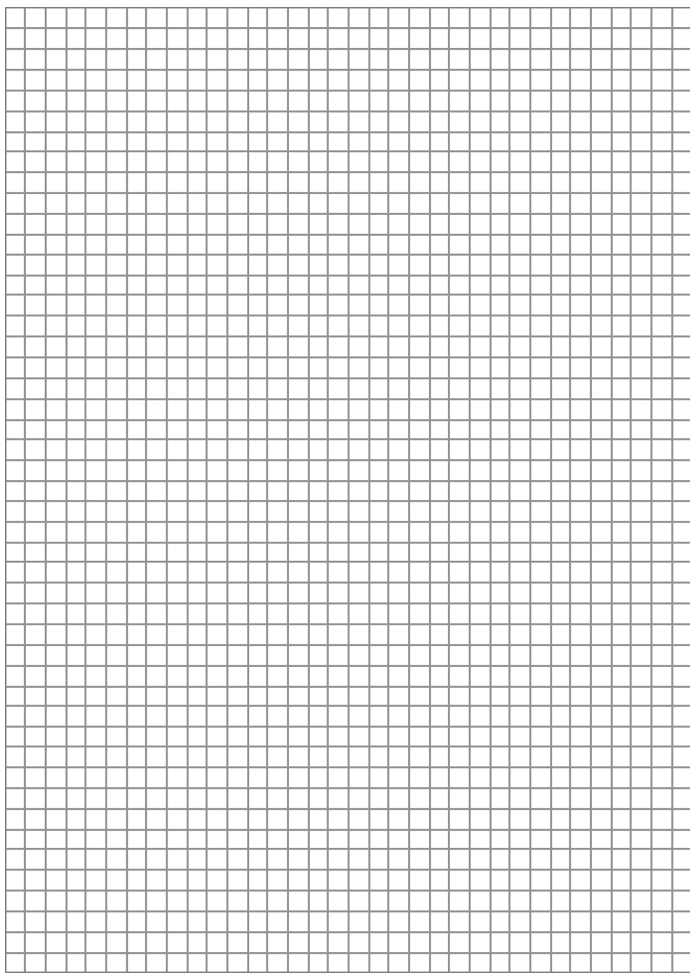
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