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Riester 2111-203

Riester e-Scope Otoscope User Manual

Model: 2111-203

1. INTRODUCTION

This user manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Riester e-Scope Otoscope. Please read this manual thoroughly before using the device and retain it for future reference.



Figure 1: Riester e-Scope Otoscope (Model 2111-203)

2. SAFETY INFORMATION

Always adhere to the following safety guidelines to ensure proper operation and prevent injury or damage to the device:

- Use the otoscope only for its intended purpose of ear examination.
- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.
- Ensure batteries are inserted correctly according to polarity markings.
- Keep the device out of reach of children.
- Avoid direct eye exposure to the LED light.
- Clean and disinfect reusable specula before and after each use as per medical guidelines.
- Store the device in its protective case when not in use to prevent damage.

3. PRODUCT COMPONENTS AND PACKAGE CONTENTS

3.1. Product Components



Figure 2: Key Components of the e-Scope Otoscope

1. **3.7V LED Light Source:** Provides bright, clear illumination for examination.
2. **Fiber Optics:** Ensures an unimpeded, free view of the examination area.
3. **3x Magnifying Pivoting Lens:** Offers triple magnification for detailed viewing and can be pivoted for access.
4. **Ear Speculum Receptacle:** For attaching reusable or disposable ear specula.
5. **Pneumatic Test Connection:** Allows for pneumatic testing (connector and insufflator not included).
6. **On/Off Switch:** Activates and deactivates the LED light.
7. **Battery Compartment and Casing:** Houses the AA batteries and provides a durable ABS synthetic material casing.

3.2. Package Contents

Your Riester e-Scope Otoscope package should contain the following items:

- Riester e-Scope Otoscope (Model 2111-203)
- AA Battery Handle (batteries not included)
- 10 Reusable Ear Specula (5 x 2.5 mm, 5 x 4.0 mm)
- Protective Case
- User Manual

4. SETUP

4.1. Battery Installation

The Riester e-Scope Otoscope requires two (2) AA batteries (not included) for operation.

1. Unscrew the bottom cap of the battery handle (Component 7 in Figure 2).
2. Insert two AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
3. Screw the bottom cap back on securely.



Figure 3: Battery Installation

4.2. Attaching Ear Specula

Select the appropriate size of ear speculum (2.5 mm for children, 4.0 mm for adults) for the examination.

1. Gently push the desired ear speculum onto the speculum receptacle (Component 4 in Figure 2) until it clicks into place.
2. To remove, gently pull the speculum straight off.

3X MAGNIFYING LENS

A Closer Look

The e-scope otoscope includes a pivoting lens to instantly increase magnification by a factor of 3.



XENON VS. LED

The LED Difference

XENON

3 hours batter life / 20 hour bulb life / conventional pocket instrument

LED

50 hours batter life / 20,000 hour bulb life / e-scope® LED illumination

E-SCOPE OPHTHALMOSCOPE

Renowned Optics

e-scope ophthalmoscopes use renowned optics and LED technology to produce a whiter light and efficient diagnosis while saving on maintenance costs. e-scope ophthalmoscopes are available with LED or Xenon illumination.



Figure 4: Attaching an Ear Speculum

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

To turn the otoscope on, slide the On/Off switch (Component 6 in Figure 2) upwards. To turn it off, slide the switch downwards.

5.2. Performing an Examination

1. Ensure a clean speculum is attached.
2. Turn on the otoscope light.
3. Gently insert the speculum into the ear canal.
4. Look through the viewing lens (Component 3 in Figure 2) to observe the ear canal and tympanic membrane.
5. The 3x magnifying lens can be pivoted to either side for an optimal view and to facilitate instrument insertion if needed.
6. After examination, turn off the otoscope and remove the speculum.



Figure 5: Proper Use of the Otoscope

5.3. Pneumatic Testing (Optional)

The e-Scope Otoscope is suitable for performance of pneumatic tests. This requires a separate connector and insufflator, which are not supplied with this product. Connect the insufflator to the pneumatic test connection (Component 5 in Figure 2) as per the insufflator's instructions.

6. MAINTENANCE AND CARE

6.1. Cleaning and Disinfection

- **Reusable Specula:** Clean and disinfect reusable ear specula thoroughly before and after each use according to standard medical sterilization procedures.
- **Otoscope Head and Handle:** Wipe the exterior of the otoscope head and handle with a soft cloth dampened with a mild disinfectant solution. Do not immerse the device in liquid.
- **Lens:** Gently clean the magnifying lens with a lens cleaning cloth or cotton swab moistened with lens cleaner. Avoid

abrasive materials.

6.2. Battery Replacement

Replace batteries when the light intensity diminishes. Follow the steps in Section 4.1 for battery installation.

6.3. Storage

Store the otoscope in its provided protective case in a cool, dry place, away from direct sunlight and extreme temperatures, when not in use.

7. TROUBLESHOOTING

If you encounter issues with your Riester e-Scope Otoscope, refer to the table below:

Problem	Possible Cause	Solution
No light or dim light	Dead or low batteries Incorrect battery polarity Loose connection	Replace batteries Check battery orientation Ensure handle is securely screwed to the head
Blurry or unclear view	Dirty lens or speculum Improper focus (if applicable)	Clean the lens and speculum Adjust viewing angle
Speculum does not attach securely	Incorrect speculum size Damaged speculum or receptacle	Ensure correct speculum size is used Inspect speculum and receptacle for damage; replace if necessary

If the problem persists after attempting these solutions, please contact Riester customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	2111-203
Light Source	3.7V LED (Fiber Optic)
Magnification	3x (pivoting lens)
Power Supply	2 x AA Batteries (not included)
Dimensions (Package)	9.57 x 3.58 x 2.2 inches
Weight (Package)	11.75 ounces
Country of Origin	Germany

CARRYING CLIP

On The Go

Easily carry your e-scope otoscope and ophthalmoscope in your shirt and jacket pocket or attach to a clipboard.



USES STANDARD AA BATTERIES

Power Control

Both the e-scope® otoscope and ophthalmoscope use standard alkaline AA Batteries that can be inserted at the top of the handle.



IMPACT-RESISTANT CASE

Keep It Safe

The e-scope otoscopes and ophthalmoscopes are available in an impact-resistant case and includes accessories (ear specula).



Figure 6: LED Illumination Benefits

9. WARRANTY AND SUPPORT

Riester products are known for their German engineering and commitment to quality. For information regarding warranty coverage, service, or technical support, please refer to the warranty card included with your product or visit the official Riester website. You may also contact Riester customer service directly for assistance.

Riester Customer Service: Please refer to the contact information provided on the product packaging or the official Riester website for the most up-to-date support details.

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Related Documents - 2111-203

ri-scope®
ri-scope® L
ri-derma®



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[Riester ri-scope®, ri-scope® L, and ri-derma® Diagnostic Instruments Operating Instructions](#)

Comprehensive operating instructions for Riester's ri-scope®, ri-scope® L, and ri-derma® diagnostic instruments, covering usage, maintenance, and technical specifications for various ophthalmoscopes, otoscopes, dermascopes, and other diagnostic tools.

ri-scope®
ri-scope® L
ri-derma



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[Riester ri-scope® L Serie: Diagnostische Instrumente - Gebrauchsanweisung](#)

Gebrauchsanweisung für die diagnostischen Instrumente der Riester ri-scope® L Serie, einschließlich Otoskope, Ophthalmoskope und Dermatoskope. Detaillierte Informationen zu Anwendung, Wartung und technischen Spezifikationen für medizinisches Fachpersonal.



e-scope®
Kompakt

Das neue, kompakte Otoskop mit
einfachem, wirtschaftlichen Design
und Optimalausstattung mit praktischer
Taschenlampe. Mit dem e-scope® kann
man Sie an den ganzen Tag in Ihrer
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[Riester e-scope®: Kompakte Otoskope und Ophthalmoskope für die professionelle Diagnostik](#)

Entdecken Sie die Riester e-scope® Serie – leichte, wirtschaftliche und technologisch fortschrittliche Tascheninstrumente für Otoskopie und Ophthalmoskopie. Mit innovativer LED-Technologie, langer Lebensdauer und umweltfreundlichem Design.

	<p>Riester e-scope® e-xam Gebrauchsanweisung: Diagnoseinstrumente</p> <p>Umfassende Gebrauchsanweisung für die Riester e-scope® und e-xam Diagnoseinstrumente. Enthält Anleitungen zur Inbetriebnahme, Wartung, Pflege und Sicherheitshinweise für Otoskope und Ophthalmoskope.</p>
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