

e-scope® **green** efficiency



03	Impressions
04	Product characteristics
06	Technology
07	Functional description
	Products
08	e-scope ® Otoscopes
09	e-scope® Ophthalmoscopes
10	Sets
11	Spares & accessories









POCKET INSTRUMENTS 2.0

WHITE LIGHT, GREEN TECHNOLOGY

3.7V LED illumination and conventional alkaline batteries – an almost impossible combination up to now. Not just pie in the sky, but state of the art. The new **e-scope**® is the perfect blend of leading-edge LED technology, more efficient diagnosis and an environment-friendly energy source. Because the **e-scope**® breaks new ground with its world innovation, the IPC (Integrated Power Converter): younger, smarter and greener.

The innovative potential of the e-scope®

• LED technology for otoscopes and ophthalmoscopes with low-reflection, bright and white light. The pure white light (approx. 5,500 K) ensures colour-neutral illumination in addition to improved colour differentiation, thereby aiding more efficient diagnosis in comparison with halogen or xenon bulbs.





CENTREPIECES OF THE e-scope®

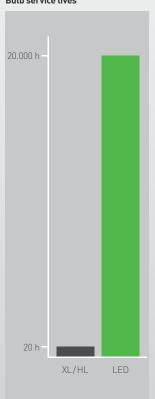
PIONEERING ADVANTAGES



LED illumination

For uniform illumination of the examination field with pure white light (5500 K). The LED illumination shows colours as they really are. Helpful for efficient diagnostics plus an almost unlimited service life.

Bulb service lives

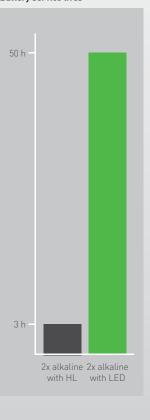


green efficiency

- Low maintenance costs thanks to long LED and battery service lives. Whilst the service life of a xenon light source is only approx. 20 hours, LED burns for at least 20,000 hours, i.e. over 2 years at a go with **e**-scope®, even with two conventional AA batteries.
- Particularly high environment-friendliness, for the newly developed IPC in the e-scope® always converts the voltage of simple alkaline batteries into the optimum voltage required for LED operation, resulting in battery lives of around 50 operating hours.

Its optimum values in all these fields make the **e-scope**® a pioneering pocket instrument for flexible diagnosis.

Battery service lives





THE WORLD FIRST IN THE e-scope®

2 CM² OF SHEER INNOVATION

AA batteries deliver a maximum 3V. However, a 3.7V voltage means that considerably more efficient LEDs can be used. Incompatible technical prerequisites? Not anymore. With the IPC, Riester has succeeded in producing a development that revolutionises illumination of pocket instruments. Because the tiny IPC inside the **e-scope**® always converts the voltage of conventional AA-size batteries into the optimum voltage supply for LEDs, thereby allowing efficient operation of LED illumination with alkaline batteries. As a result, the IPC not only allows optimum light quality, but also provides economic and ecological benefits. The service life of a light-emitting diode is therefore up to 1,000 times longer than that of xenon illumination and the batteries used in the **e-scope**® are discharged considerably more thoroughly thanks to the IPC; consequently, they do not need to be disposed of and replaced as often.















e-scope® SIMPLY MORE INTELLIGENT

Continuous improvement has always been Riester's claim. With the new **e-scope®**, a further step has been successfully taken towards optimum illumination, environment-friendliness and profitability.





e-scope®

PRODUCT RANGE



e-scope ophthalmoscopes are available with vacuum, xenon or LED illumination.

- With 2.7V vacuum or 2,5 V xenon illumination and with innovative 3.7V LED illumination for higher-contrast and more efficient diagnosis
- Dioptre disc with 18 corrective lenses [+/- 1, 2, 3, 4, 6, 8, 10, 15, 20 dioptres]
- Easy-to-use aperture wheel with six different apertures (fixation star, large circle, small circle, red free filter, blue filter, semi circle)
- High performance optics with aspherical condenser lens
- Spectacle protection
- Parallel optical path
- Dust-protected



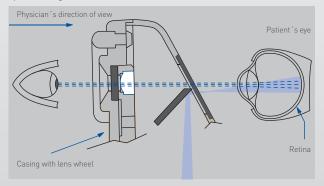
Healthy fundus

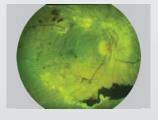


Pathological fundus

Optical path

Corneal and iris reflexes are avoided by separation of the parallel observation and illumination beams (Gullstrand's principle). The illuminated retinal area is fully visible – even with narrow pupils. Optimum conditions are achieved for ophthalmological examinations.





Fundus with red free filter

Dioptre discWith 18 corrective lenses

D+ 1 | 2 | 3 | 4 | 6 | 8 | 10 | 15 | 20 D- 1 | 2 | 3 | 4 | 6 | 8 | 10 | 15 | 20

Apertures

With easy-to-use aperture wheel





ALWAYS ON HAND: POCKET-SIZE SETS

SMALL SETS FOR A HIGH LEVEL OF SAFETY

e-scope® otoscopes and ophthalmoscopes are available in an impact-resistant case or in a space-saving bag. They include special inserts in which the instruments can be perfectly stowed and offer adequate space for the battery handle and ear speculums.



e-scope® otoscope with direct illumination

- Vacuum 2.7 V, in bag
- □ white■ black
- Art. No.: 2100-200 Art. No.: 2101-200

- XL 2.5 V, in bag
- ☐ white Art. No.: 2100-201
- black
- Art. No.: 2101-201



e-scope® F.O. otoscope

- XL 2.5 V, in case
- □ white
- Art. No.: 2110-202

- black Art. No.: 2111-202
 □ white Art. No.: 2110-203
- LED 3.7 V, in case
- black Art. No.: 2111-203



e-scope® ophthalmoscope

- Vacuum 2.7 V, in bag
 - _...,...__
- □ white Art. No.: 2120-200■ black Art. No.: 2121-200
- XL 2.5 V, in case
- □ white Art. No.: 2122-201
 black Art. No.: 2123-201
- 7.2 2.0 1, ... 0000
- black Art. No.: 2123-201

 □ white Art. No.: 2122-203
- LED 3.7V, in case
- black Art. No.: 2123-203



e-scope® otoscope with direct illumination/ophthalmoscope

- Vacuum 2.7V, in bag
- □ white
- Art. No.: 2130-200
- black
- Art. No.: 2131-200



e-scope® F.O. otoscope/ophthalmoscope

- XL 2.5 V, in case
- □ white■ black
- Art. No.: 2130-202 Art. No.: 2131-202

- LED 3.7V, in case
- □ white
- Art. No.: 2130-203
- black
- Art. No.: 2131-203



10

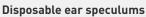
SIMPLE HANDLING

SPARES AND ACCESSORIES FOR e-scope®



Reusable ear speculums

• 2mm	10 items	Art. No.: 10775
• 2.5 mm	10 items	Art. No.: 10779
• 3 mm	10 items	Art. No.: 10783
• 4mm	10 items	Art. No.: 10789
• 5 mm	10 items	Art. No.: 10795





 2 mm 100 items 500 items 1000 items 2.5 mm 100 items 2.5 mm 100 items 3 mm 100 items 3 mm 100 items 4 nt. No.: 14061-531 3 mm 100 items 3 nt. No.: 14063-531 3 nt. No.: 14061-533 500 items 4 nt. No.: 14062-533 1000 items 4 nt. No.: 14063-533 4 nt. No.: 14063-534 1000 items 5 nt. No.: 14063-534 5 nt. No.: 14063-535 5 nt. No.: 14062-535 1000 items 5 nt. No.: 14062-535 1000 items 5 nt. No.: 14063-535 1000 items 5 nt. No.: 14063-535 				
1000 items	•	2 mm	100 items	Art. No.: 14061-532
 2.5 mm 100 items 500 items 1000 items 3 mm 100 items 1000 items 3 mm 100 items 1000 items Art. No.: 14061-533 500 items Art. No.: 14062-533 1000 items Art. No.: 14063-533 4 mm 100 items Art. No.: 14061-534 500 items Art. No.: 14062-534 1000 items Art. No.: 14063-534 5 mm 5 mm 100 items Art. No.: 14061-535 500 items Art. No.: 14062-535 			500 items	Art. No.: 14062-532
500 items Art. No.: 14062-531 1000 items Art. No.: 14063-531 • 3 mm 100 items Art. No.: 14061-533 500 items Art. No.: 14062-533 1000 items Art. No.: 14063-533 • 4 mm 100 items Art. No.: 14061-534 500 items Art. No.: 14062-534 1000 items Art. No.: 14063-534 • 5 mm 100 items Art. No.: 14061-535 500 items Art. No.: 14062-535			1000 items	Art. No.: 14063-532
1000 items	•	2.5 mm	100 items	Art. No.: 14061-531
 3 mm 100 items 500 items 4 mm 100 items 4 mm 100 items 500 items 4 mm 100 items 500 items 1000 items Art. No.: 14061-534 1000 items Art. No.: 14062-534 5 mm 100 items Art. No.: 14061-535 500 items Art. No.: 14062-535 			500 items	Art. No.: 14062-531
500 items Art. No.: 14062-533 1000 items Art. No.: 14063-533 • 4 mm 100 items Art. No.: 14061-534 500 items Art. No.: 14062-534 1000 items Art. No.: 14063-534 • 5 mm 100 items Art. No.: 14061-535 500 items Art. No.: 14062-535			1000 items	Art. No.: 14063-531
1000 items Art. No.: 14063-533 • 4mm 100 items Art. No.: 14061-534 500 items Art. No.: 14062-534 1000 items Art. No.: 14063-534 • 5mm 100 items Art. No.: 14061-535 500 items Art. No.: 14062-535	•	3 mm	100 items	Art. No.: 14061-533
 4 mm 100 items 500 items 1000 items Art. No.: 14061-534 Art. No.: 14062-534 1000 items Art. No.: 14063-534 5 mm 100 items Art. No.: 14061-535 500 items Art. No.: 14062-535 			500 items	Art. No.: 14062-533
500 items Art. No.: 14062-534 1000 items Art. No.: 14063-534 • 5 mm 100 items Art. No.: 14061-535 500 items Art. No.: 14062-535			1000 items	Art. No.: 14063-533
1000 items Art. No.: 14063-534 • 5 mm 100 items Art. No.: 14061-535 500 items Art. No.: 14062-535	•	4 mm	100 items	Art. No.: 14061-534
• 5 mm 100 items Art. No.: 14061-535 500 items Art. No.: 14062-535			500 items	Art. No.: 14062-534
500 items Art. No.: 14062-535			1000 items	Art. No.: 14063-534
7.11.14014002.000	•	5mm	100 items	Art. No.: 14061-535
1000 items Art. No.: 14063-535			500 items	Art. No.: 14062-535
			1000 items	Art. No.: 14063-535

Pneumatic test accessories



Insufflator
 Metal connector for the pneumatic test
 Art. No.: 10960
 Art. No.: 10961

Replacement bulbs



XL 2.5V, pack containing 6 items Art. No.: 10600 LED 3.7V Art. No.: 14041 for A-scope® phaseage with direct illumination

• for e-scope® otoscope with direct illumination
Vacuum 2.7V, pack containing 6 items Art. N

Vacuum 2.7 V, pack containing 6 items Art. No.: 10488 XL 2.5 V, pack containing 6 items Art. No.: 10489

 $\bullet \ \, \textbf{for} \, \, \textbf{e} \textbf{-} \textbf{SCOPe}^{\textbf{@}} \, \textbf{ophthalmoscope} \\$

Vacuum 2.7V, pack containing 6 items Art. No.: 14050 Art. No.: 10605 LED 3.7V Art. No.: 14051

