



# Riester Otoscopes, Ophthalmoscopes and Power Sources



## rheotronic®

- Patented technology for LEDs and bulbs
- Activation by briefly tapping the rotating button to +, immediate 100 % light output
- Diode signals whether handle is on or off
- Automatic safety shutdown after 120 seconds



## ri-scope® L

The ri-scope® L opens a new era of high-performance and user-friendly diagnostic instruments for E.N.T. and Ophthalmology. Li-ion/LED technology used in these new high-performance instruments significantly reduce costs while improving both effectiveness and reliability.

The lightweight lithium-ion battery used in the ri-scope® L has an unsurpassed lifetime – with higher loading capacity and sustained high-power performance, even after well over 1000 charge cycles.

A nearly unlimited lifetime with the highest luminosity are the benefits of the LED technology used with the ri-scope® L. The lamp inside never gets hot, provides true-colour, even illumination of the area under examination and is guaranteed never to fail.



## ri-scope® L1 Otoscope

### Reduced reflection

**Inexpensive basic model with reduced reflection and direct illumination.**

- Direct illumination with 2.5V halogen, or 3.5V xenon lamp
- Bi-directional swivelling optical glass with 3x magnification, option available with operation lens with 4x magnification
- Metal fitting for ri-mini®/pen-scope® specula
- Suitable for pneumatic tests (supplied without ball)

#### Part Numbers

- 3700** 2.5V HL L1 Otoscope  
**1518-P-1003** 3.5V XL L1 Otoscope



Use with ri-charger® L if you order 3.5V - see page 36



## ri-scope® L1 Ophthalmoscope

### High quality optics

**The inexpensive basic model with all the important basic functions.**

- Diopter wheel with 29 corrective lenses - Plus 1-10, 12, 15, 20, 40 Minus 1-10, 15, 20, 25, 30, 35
- Easy-to-operate aperture hand-wheel with semi-circle, small/medium/large circle fixation star, slit and red-free filter with contrast-enhancing effect
- Optimized high-performance optics with aspherical condenser lens
- Parallel beam path
- Dust-proof

#### Part Numbers

- 3722** 2.5V HL L1 Ophthalmoscope  
**1126-P-1007** 3.5V XL L1 Ophthalmoscope



#### Aperture wheel for L1



#### Filter wheel for L1



### Apertures, graticules and filters

**Large Circle** - Illuminates the largest area of fundus for the best possible general diagnosis through a dilated pupil.

**Medium Circle** - Permits easier access through an undilated pupil and in peripheral examination. Particularly useful in paediatric examination.

**Small Circle** - Designed specifically for examination of the macular region of the fundus where a larger beam would create excessive pupillary reaction or patient discomfort.

**Semi Circle** - Used to reduce reflection for small pupils.

**Slit** - Used primarily to determine retinal elevations and depressions but may also be used to assess anterior chamber depth.

**Grid** - Used for topographic determination of retina changes.

**Fixation Star** - Projects a graticule onto the retina for assessment of the degree and direction of eccentric fixation.

**Red Free** - The red free filter is used to examine blood vessels in fine detail. By filtering out the red light, blood vessels are silhouetted black against a dark green background.

**Blue** - Used in conjunction with fluorescein dye for the detection and examination of corneal scars and abrasions.

**Polarization Filter** - Used for precise assessment of tissue colours and to avoid retinal reflections.

## ri-scope® L1 Sets

### One handy package

#### Part Numbers

- L1 Otoscope and Ophthalmoscope Diagnostic Sets**  
**3743** 2.5V XL/HL Set  
**1729-P-1035** 3.5V XL/XL Set



# ri-scope® L2 Otoscope

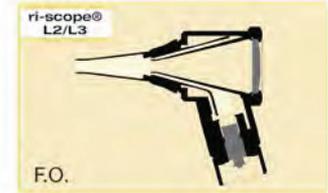
LED inside

**Inexpensive Fibre Optic model with 2.5V halogen or 3.5V LED lights (without specula ejection device).**

- Fibre optics for optimal light transmission
- Bi-directional swivelling, sealing optical glass with 3x magnification
- Optional operation lens with 4x magnification available
- Metal fitting for ri-mini®/pen-scope® specula
- Suitable for pneumatic tests (supplied without ball)

### Part Numbers

- 3716** 2.5V HL L2 Otoscope  
**1518-P-1004** 3.5V LED L2 Otoscope



Fibre optics with 2.5V HL halogen or 3.5V LED illumination ensure an unhindered, glare-free view.



# ri-scope® L2 Ophthalmoscope

High performance optics

**The L2 ophthalmoscope has separate red-free, blue and polarization filters for each aperture.**

- Diopter wheel with 29 corrective lenses - Plus 1-10, 12, 15, 20, 40  
Minus 1-10, 15, 20, 25, 30, 35
- Easy-to-operate aperture hand-wheel with semi-circle, small medium/large circle, fixation star, and slit
- Includes filter wheel for all apertures with symbol display, red-free filter, blue filter and polarization filter
- Optimised high-performance optics with aspherical condenser lens
- Parallel beam path
- Dust-proof

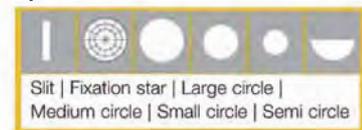
### Part Numbers

- 3723** 2.5V HL L2 Ophthalmoscope  
**1126-P-1008** 3.5V XL L2 Ophthalmoscope

Use with ri-charger® L if you order 3.5V - see page 36



### Aperture wheel for L2



### Filter wheel for L2



### Corrective lenses L1/L2

D+	1	2	3	4	5	6	7	8	9	10	12	15	20	40	
D-	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35

Corrective lenses from +40 through -35 diopters guarantee a sharp picture, even in cases of especially severe refraction anomalies.

# ri-scope® L2 Sets

One handy package

### Part Numbers

- L2 Otoscope and Ophthalmoscope Diagnostic Sets**  
**3751** 2.5V HL Set  
**1729-P-1036** 3.5V LED Set



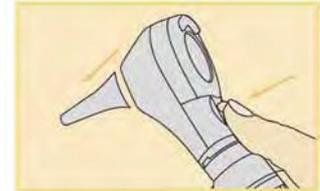


## ri-scope® L3 Otoscope

LED inside

The unparalleled F.O. version with 2.5V halogen or 3.5V LED illumination, specula ejection device and operation magnifying lens.

- **Fibre optics** for optimal beam and light transmission
- Bi-directional swivelling **optical glass** with 3x magnification
- Operation lens with 4x magnification and glass mini optic ease the insertion of instruments
- Easy-to-operate SpecEjec specula ejection device
- Fitting for ri-scope® specula and enlarged conduit for instruments
- Suitable for pneumatic tests (supplied without ball)



The SpecEjec® device enables touchless ejection of used ear specula for hygienic and simplified handling.

### Part Numbers

- 3701** 2.5V HL L3 Otoscope  
**1518-P-1005** 3.5V LED L3 Otoscope



## ri-scope® L3 Ophthalmoscope

Excellent optical properties

The L3 ophthalmoscope has additional focussing device and 89 single-step diopter values.

- Corrective lenses for 89 diopter values - Plus 1-45 in single steps  
Minus 1-44 in single steps
- Easy-to-operate aperture hand-wheel with semi-circle, small/medium/large circle, fixation star, slit and grid
- Includes filter wheel engageable for all apertures with symbol display, red-free filter, blue filter and polarization filter
- **Focusing device** with zero retention force for the quick correction of ametropias
- Dust-proof

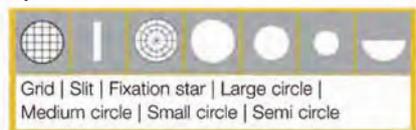
Use with ri-charger® L if you order 3.5V - see page 36



### Part Numbers

- 3726.002** 2.5V HL L3 Ophthalmoscope  
**1126-P-1009** 3.5V XL L3 Ophthalmoscope

### Aperture wheel for L3



### Filter wheel for L3



## ri-scope® L3 Sets

One handy package

### Part Numbers

**L3 Otoscope and Ophthalmoscope Diagnostic Sets**

- 3745.002** 2.5V HL Set  
**1729-P-1037** 3.5V LED/XL Set



ri-mini®

Light and handy design



**Halogen/F.O. illuminated Oto-/Ophthalmoscopes**

- 2.5V F.O. Halogen illumination
- Comes in protective hard case
- Selection of otoscopes, ophthalmoscopes or oto-/ophthalmoscopes in hard case with safety catches
- Metal clip on the handle for attaching to the physician's coat
- Otoscope with fibre-optics system for an optimum light beam and thus the best possible lighting results
- Magnifying lens with 2.5x magnification, removable, ideal for introducing external instruments
- Ophthalmoscope with four different apertures and correction lenses from 0 to +20 and 0 to -20 diopters, easy to operate focusing wheel and integrated eyeglass protector

**Part Numbers**

**ri-mini® otoscope HL 2.5V in case**

<b>3010</b>	Black	<b>3004</b>	Saffron
<b>3000</b>	Slate Grey	<b>3005</b>	Green
<b>3003</b>	Blue		

**ri-mini® ophthalmoscope HL 2.5V in case**

<b>3011</b>	Black	<b>3007</b>	Saffron
<b>3001</b>	Slate Grey	<b>3008</b>	Green
<b>3006</b>	Blue		



**Part Numbers**

**ri-mini® oto-ophthalmoscope set in case**

<b>3012</b>	Black	<b>3013</b>	Saffron
<b>3002</b>	Slate Grey	<b>3014</b>	Green
<b>3009</b>	Blue		

ri-mini® is available in a selection of colours as shown





## pen-scope®

Ideal for rounds and house calls



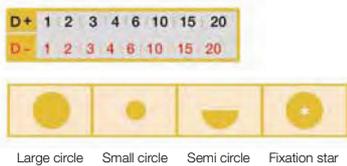
### pen-scope® Otolaryngoscope

- 2.7V vacuum lamp
- Direct illumination, with an upgraded, reflection-minimized illumination
- Removable magnifying lens with 2.5x magnification
- Possibility to insert external instruments when magnifying lens is removed
- Screw fitting for secure attachment to the handle
- Sturdy adjustment ring to turn the instrument head to the ideal position to the handle
- Sealed system for performing pneumatic otoscopy
- Extremely impact resistant casing made of glass-fibre reinforced plastic
- Simple bulb replacement at the base of the instrument head
- Including ear specula 4mm and 2.5mm

### Part Numbers

#### pen-scope® otoscope standard 2.7V in pouch

2056-200	Black	2066-200	Saffron
2058-200	Slate Grey	2068-200	Green
2060-200	Blue		



### Standard Pocket Oto-/Ophthalmoscopes

- Choice of otoscopes, ophthalmoscopes or oto-/ophthalmoscopes in attractive nylon case
- Highly cost-effective
- Practical metal clip on the handle for attaching to the doctor's coat
- Otolaryngoscope with direct illumination, alternatively Standard or Halogen lamps, 2.5x magnifying glass, removal for inserting external instruments
- Ophthalmoscope with four different apertures and correction lenses from 0 to +20 and 0 to -20 diopters, easy to operate focusing wheel and integrated eyeglass protector



### Part Numbers

#### pen-scope® ophthalmoscope 2.7V in pouch

2076	Black	2086	Saffron
2078	Slate Grey	2088	Green
2070	Blue		



pen-scope® is available in a selection of colours



### Part Numbers

#### pen-scope® oto-ophthalmoscope set in pouch

2090-200	Black	2094-200	Saffron
2092-200	Slate Grey	2096-200	Green
2080-200	Blue		