



# uni<sup>®</sup>/econom<sup>®</sup>

The **reliable classic** for **everyday use**.

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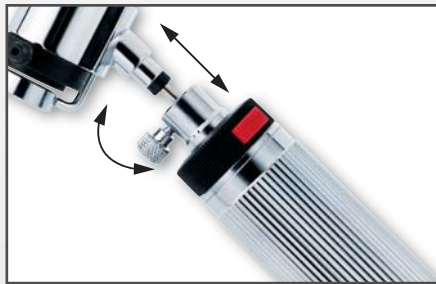
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## uni®/econom®

**Riester uni®/econom®** – the reliable product line for ENT and ophthalmology. Durable, user-friendly, variable and in customary Riester quality.

- Illumination of the examination area with 2.7 V vacuum, xenon illumination XL 2.5 V or xenon illumination XL 3.5 V, similar to daylight.
- Power supply is possible via various handles or charging base **ri-charger®**
- Choice of sets with exceptional cost-effectiveness
- Developed and manufactured in Germany.



Simple attachment of the instrument head with plug-in connector.



### **XL** illumination technology

Now also with XL xenon illumination.

XL from **Riester** sheds light on your diagnosis!

The convincing result of intensive research and development work: clearly noticeable increase in illumination intensity by using xenon XL illumination technology. The service life of the lamps is absolutely comparable to HL halogen illumination.

# uni®/econom®

INTRODUCTION

## INSTRUMENTS FOR ENT

Instruments from **Riester** for ears, nose and throat offer numerous diagnostic possibilities with a high degree of comfort in use.

### OTOSCOPE



**No. 10420** vacuum 2.7 V  
**No. 10419** XL 2.5 V  
**No. 10418** XL 3.5 V

- Removable magnifying lens with 4-fold magnification can be swivelled to both sides.
- Removable cover glass for insertion of external instruments.
- Suitable for nasal examinations when using the 9 mm speculum.
- Plug-in connector for quick and secure attachment to handle.
- Sealed system for performing pneumatic otoscopy.
- Ageing-resistant chrome-plated metal head.
- Simple exchange of lamp at the front of the instrument head.
- Including ear specula with stainless steel fitting, 2, 3, and 4 mm.
- Available with 2.7 V vacuum, XL 2.5 V xenon or XL 3.5 V xenon lamp, similar to daylight.



**No. 11504**



**No. 10448**

### ACCESSORIES

#### Cover glass for otoscope

- with sturdy plastic frame and adapter for the pneumatic test.
- simple to attach to the otoscope head by inserting and turning.

#### Swivel lens for otoscope

- 4-fold magnification.
- Ageing-resistant metal frame with plug-in connector.

#### Specula for otoscope

- Reusable ear specula with stainless steel fitting.
- Various sizes are available: 2 mm, 3 mm, 4 mm, 5 mm and 9 mm.
- The 9 mm speculum is suitable as a nasal speculum.
- Sterilisation possible at 134°C for 10 minutes in a steam sterilizer or disinfection by conventional means.
- Easy insertion into ear and nose, specula are optimally shaped.
- Supplied in a poly-bag.



**No. 10460** 2 mm



**No. 10461** 3 mm



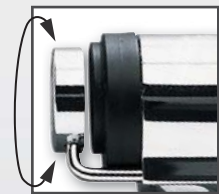
**No. 10462** 4 mm



**No. 10463** 5 mm



**No. 10464** 9 mm  
(nasal speculum)



Simple to attach and rotatable 360°.



No. 10960

### Ball for pneumatic test

- for all **Riester** otoscopes.



No. 10440

### NASAL SPECULUM

- non-ageing chrome-plated metal speculum.
- slow and controlled expansion of the speculum by turning on the screw adjuster.
- for fitting to the otoscope head.



No. 10443 vacuum 2.7 V  
No. 10442 XL 2.5 V  
No. 10441 XL 3.5 V

### BENT ARM ILLUMINATOR

- with 2.7 V vacuum lamp, 2.5 V XL xenon or 3.5 V XL xenon lamp.
- chrome-plated metal, durable and sturdy.
- plug-in connector for fast and secure attachment to the handle.
- simple exchange of the lamp at the front of the bent arm illuminator.



No. 10447 1 pair

### ACCESSORIES

#### Laryngeal mirror

For all **Riester** bent arm illuminators

- two laryngeal mirrors No. 3 (diameter 20 mm) and No. 4 (diameter 22 mm) for illuminating and mirror examination of the laryngeal area.
- simple to attach to the bent arm illuminator.

## TONGUE BLADE HOLDER

- made of stainless steel, durable and sturdy.
- simple attachment to the bent arm illuminator.



No. 10445



Simple and secure attachment to the bent arm illuminator with the clip holder.



No. 10423 XL 2.5 V  
No. 10416 XL 3.5 V

## OPHTHALMOLOGICAL INSTRUMENTS

**Riester** instruments for ENT and ophthalmology unite good diagnostic characteristics with reliable quality and the most modern illumination technologies in all models.

### May ophthalmoscope

- with 2.5 V xenon - or 3.5 V xenon lamp.
- durable and sturdy ABS plastic head for long service life.
- plug-in connector for fast and secure attachment to handle.
- focussing wheel with corrective lenses from 0 to +20 or 0 to -20 diopters.
- aperture with large circle for examination for the fundus of the eye.
- simple exchange of the lamp at the base of the instrument head.



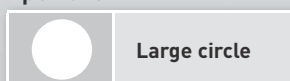
Effortless exchange of the lamp by means of simple push-fit mechanism at the base of the instrument head.

### Corrective lenses:

|    |     |   |     |   |   |   |   |   |   |    |    |    |    |
|----|-----|---|-----|---|---|---|---|---|---|----|----|----|----|
| D+ | 0.5 | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 15 | 20 |
| D- |     | 1 |     | 2 | 3 | 4 | 5 | 6 | 8 | 10 |    | 15 | 20 |

The corrective lenses from +20 to -20 dioptres guarantee a focussed image even in the case of strong refractive anomalies.

### Aperture



uni<sup>®</sup>/econom<sup>®</sup>

INSTRUMENTS FOR ENT / OPHTHALMOLOGICAL INSTRUMENTS

## LAMPEN

**Riester** offers lamps in different light qualities: 2.7 V vacuum lamps, XL 2.5 V xenon lamps with considerably stronger and whiter light, as well as particularly light intensive XL 3.5 V xenon lamps for conditions similar to daylight.



No. 10421

### 2.7 V vacuum lamps

for otoscope and bent arm illuminator, pack of 6



No. 10590

### XL 2.5 V xenon lamps

for otoscope and bent arm illuminator, pack of 6



No. 10424

for May ophthalmoscope, pack of 6



No. 10592

### XL 3.5 V xenon lamps

for otoscope and bent arm illuminator, pack of 6



No. 10593

for May ophthalmoscope, pack of 6

\* All lamps are shown in original size.

## POWER SOURCES

The **Riester** product range includes various high-quality and durable power sources. The devices listed here as standard models for 230 V or 120 V. If other voltages or country-specific plugs are required, please enquire when you send your order.

## HANDLES

The easy-to-manage **Riester** handles with rheostat for regulation of light intensity are the basis of a reliable examination. The well thought-out ergonomics of the plug-in and battery handles ensure comfortable handling.

- Sturdy metal handle, chrome-plated.
- Fluted handle surface for hygienic use and secure grip in the hand.
- Practical plug-in connector for fast exchange of the instrument heads.
- Simple change of batteries at the base of the handles.
- For **uni**<sup>®</sup> and **econom**<sup>®</sup> instrument heads with 2.7 V vacuum, XL 2.5 V xenon or XL 3.5 V xenon illumination.

### Battery handle type C with rheostat

without batteries, handle diameter: 28 mm.



**No. 10425** with cover,  
without bore

- for two batteries type C

**No. 10429** with cover,  
without bore

- for rechargeable **ri-accu**<sup>®</sup> NiMH battery.
- Simple recharging in the **ri-charger**<sup>®</sup> charging base.

**No. 10686**

Alkaline battery 1.5V, type C



**No. 10681** 2.5 V  
**No. 10682** 3.5 V

Rechargeable NiMH battery **ri-accu**<sup>®</sup>



**No. 10679** with cover,  
without bore

### Accessories

Battery handle cover



**uni**<sup>®</sup>/**econom**<sup>®</sup>  
POWER SOURCES





No. 10430 2.5 V / 230 V  
 No. 10431 2.5 V / 120 V

### Plug-in handle with rheostat

including rechargeable NiMH battery **ri-accu**®

No. 10683 2.5 V

Rechargeable NiMH battery **ri-accu**®



No. 10432 3.5 V / 230 V  
 No. 10433 3.5 V / 120 V

### Plug-in handle with rheostat

including rechargeable Li-Ion battery **ri-accu**® L

No. 10692 3.5 V

Rechargeable Li-Ion battery **ri-accu**® L



No. 10668 230 V  
 No. 10669 120 V

### Combi-handles with Rheostat

with rechargeable NiMH battery **ri-accu**® for plug-in handle casing.

- Plug-in handle casing for a rechargeable NiMH battery **ri-accu**® (No. 10683 2.5 V), alternative handle casing for a rechargeable NiMH battery **ri-accu**® (No. 10681 2.5 V) or for two batteries type C.
- By simply exchanging the plug-in casing with the alternative handle casing the plug-in handle is converted into a battery handle – fast and cost-effectively. There is no need to place an adapter in between!
- Handle diameter: 28 mm.
- Charge up in the charging base **ri-charger**® or in an electrical socket.
- The combi-handle cannot be combined with parts from the battery handle type C or plug-in handles.



No. 10683 2.5 V

Rechargeable NiMH battery **ri-accu**®



No. 10681 2.5 V

Rechargeable NiMH battery **ri-accu**®



No. 10686

Alkaline battery 1.5 V, type C



The combi-handle combines three functions in one! It is always ready for use – even when electricity is not always permanently available from the socket!

uni®/econom®  
 POWER SOURCES

### Charging base

**ri-charger®** is the perfect charging base for all rechargeable battery handles type C and the innovative combi-handle. After use, the instruments are being put into the charging base so that they remain operational at all times.

- Simultaneous charging of 2.5 V and 3.5 V handles possible (using NiMH rechargeable batteries).
- Can be used as desk or wall model.
- With practical storage compartment for two replacement lamps and ear specula.
- Status indicator of charging process on the device:
  - yellow control lamp: charging in progress
  - green control lamp: charging completed



**No. 10700** 230 V  
**No. 10701** 120 V

### ri-charger®

complete, with wall mounting, reduction insert and cover for ear specula compartment.

- for all rechargeable handles 2.5 V and 3.5 V with NiMH rechargeable batteries.

## SETS

**Riester uni®** and **econom®** sets and handy examination assistants for ENT and ophthalmology. Available in various models and combinations, as well as an optional choice of 3 different illuminations.

- 2.7 V instruments with vacuum lamps.
- 2.5 V instruments with XL xenon lamps.
- 3.5 V instruments with XL xenon lamps.
- We will be pleased to provide information on minimum ordering quantities for customer specific product combinations and packaging upon request.

## uni® I otoscope

- With reusable ear specula 2, 3, and 4 mm.
- In a silver-coloured plastic case with two snap fasteners.

### Battery handle type C with rheostat

- No. 2010** vacuum 2.7 V  
**No. 2010-201** XL 2.5 V

### Plug-in handle type C with rheostat, including ri-accu® / ri-accu®L

- No. 2011-200** vacuum 2.7 V / 230 V  
**No. 2012-200** vacuum 2.7 V / 120 V  
**No. 2011-201** XL 2.5 V / 230 V  
**No. 2012-201** XL 2.5 V / 120 V  
**No. 2011-202** XL 3.5 V / 230 V  
**No. 2012-202** XL 3.5 V / 120 V

### Battery handle type C with rheostat, including ri-accu® and ri-charger®

- No. 2013-200** vacuum 2.7 V / 230 V  
**No. 2014-200** vacuum 2.7 V / 120 V  
**No. 2013-201** XL 2.5 V / 230 V  
**No. 2014-201** XL 2.5 V / 120 V  
**No. 2013-202** XL 3.5 V / 230 V  
**No. 2014-202** XL 3.5 V / 120 V



**uni®/econom®**  
CHARGING BASE / SETS



## uni® II May ophthalmoscope

- In a silver-coloured plastic case with two snap fasteners.

### Battery handle type C with rheostat

**No. 2020** XL 2.5 V  
**No. 2020-201** XL 2.5 V

### Plug-in handle type C with rheostat, including ri-accu® / ri-accu®L

**No. 2021-200** XL 2.5 V / 230 V  
**No. 2022-200** XL 2.5 V / 120 V  
**No. 2021-202** XL 3.5 V / 230 V  
**No. 2022-202** XL 3.5 V / 120 V

### Battery handle type C with rheostat, including ri-accu® and ri-charger®

**No. 2023-200** XL 2.5 V / 230 V  
**No. 2024-200** XL 2.5 V / 120 V  
**No. 2023-202** XL 3.5 V / 230 V  
**No. 2024-202** XL 3.5 V / 120 V



## uni® III otoscopes, May ophthalmoscope

- With reusable ear specula 2, 3, and 4 mm.
- In a silver-coloured plastic case with two snap fasteners.

### Battery handle type C with rheostat

**No. 2030** vacuum 2.7 V / XL 2.5 V  
**No. 2030-201** XL 2.5 V

### Plug-in handle type C with rheostat, including ri-accu® / ri-accu®L

**No. 2031-200** vacuum 2.7 V / XL 2.5 V / 230 V  
**No. 2032-200** vacuum 2.7 V / XL 2.5 V / 120 V  
**No. 2031-201** XL 2.5 V / 230 V  
**No. 2032-201** XL 2.5 V / 120 V  
**No. 2031-202** XL 3.5 V / 230 V  
**No. 2032-202** XL 3.5 V / 120 V

### Battery handle type C with rheostat, including ri-accu® and ri-charger®

**No. 2033-200** vacuum 2.7 V / XL 2.5 V / 230 V  
**No. 2034-200** vacuum 2.7 V / XL 2.5 V / 120 V  
**No. 2033-201** XL 2.5 V / 230 V  
**No. 2034-201** XL 2.5 V / 120 V  
**No. 2033-202** XL 3.5 V / 230 V  
**No. 2034-202** XL 3.5 V / 120 V



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SETS

## No. 2050 econom<sup>®</sup>, nasal speculum expandable



uni<sup>®</sup> I otoscope head, uni<sup>®</sup> II May ophthalmoscope head, nasal speculum expandable, bent arm illuminator, 2 laryngeal mirrors No. 3 and 4, tongue blade holder, replacement lamp otoscope (also for bent arm illuminator).

- In hard protective deluxe case with sturdy sliding safety catches.

**Battery handle type C with rheostat**  
**No. 2050** vacuum 2.7 V / XL 2.5 V  
**No. 2050-201** XL 2.5 V



**Plug-in handle type C with rheostat, including ri-accu<sup>®</sup> / ri-accu<sup>®</sup>L**  
**No. 2051-200** vacuum 2.7 V / XL 2.5 V / 230 V  
**No. 2052-200** vacuum 2.7 V / XL 2.5 V / 120 V  
**No. 2051-201** XL 2.5 V / 230 V  
**No. 2052-201** XL 2.5 V / 120 V  
**No. 2051-202** XL 3.5 V / 230 V  
**No. 2052-202** XL 3.5 V / 120 V



**Battery handle type C with rheostat, including ri-accu<sup>®</sup> and ri-charger<sup>®</sup>**  
**No. 2053-200** vacuum 2.7 V / XL 2.5 V / 230 V  
**No. 2054-200** vacuum 2.7 V / XL 2.5 V / 120 V  
**No. 2053-201** XL 2.5 V / 230 V  
**No. 2054-201** XL 2.5 V / 120 V  
**No. 2053-202** XL 3.5 V / 230 V  
**No. 2054-202** XL 3.5 V / 120 V



## No. 2050-525 econom<sup>®</sup>, nasal speculum 9 mm



uni<sup>®</sup> I otoscopes head, uni<sup>®</sup> II ophthalmoscope head, nasal speculum 9 mm, bent arm illuminator, 2 laryngeal mirrors No. 3 and 4, tongue blade holder, replacement lamp otoscope (also for bent arm illuminator).

- In hard protective deluxe case with sturdy sliding safety catches.

**Battery handle type C with rheostat**  
**No. 2050-525** vacuum 2.7 V / XL 2.5 V  
**No. 2050-525-201** XL 2.5 V



**Plug-in handle type C with rheostat, including ri-accu<sup>®</sup>**  
**No. 2051-525-200** vacuum 2.7 V / XL 2.5 V / 230 V  
**No. 2052-525-200** vacuum 2.7 V / XL 2.5 V / 120 V  
**No. 2051-525-201** XL 2.5 V / 230 V  
**No. 2052-525-201** XL 2.5 V / 120 V  
**No. 2051-525-202** XL 3.5 V / 230 V  
**No. 2052-525-202** XL 3.5 V / 120 V



**Battery handle type C with rheostat, including ri-accu<sup>®</sup> and ri-charger<sup>®</sup>**  
**No. 2053-525-200** vacuum 2.7 V / XL 2.5 V / 230 V  
**No. 2054-525-200** vacuum 2.7 V / XL 2.5 V / 120 V  
**No. 2053-525-201** XL 2.5 V / 230 V  
**No. 2054-525-201** XL 2.5 V / 120 V  
**No. 2053-525-202** XL 3.5 V / 230 V  
**No. 2054-525-202** XL 3.5 V / 120 V

