Instruments for ENT
Ophthalmological instruments

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

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

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 the brightness values by using xenon XL illumination technology. The service life of the lamps is the same as for HL halogen illumination.

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

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

Otoscope

Otoscope
- Removable magnifying lens with 4-fold magnification can be swivelled to both sides.
- Removable cover glass to insert 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, HL 2.5 V halogen or XL 3.5 V xenon lamp, similar to daylight.

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.

Bulb for the pneumatic test
for all Riester otoscopes
Nasal speculum

- Ageing-resistant chrome-plated metal speculum.
- Slow and controlled expansion of the speculum by turning on the screw adjuster.
- For fitting to the otoscope head.

Adjustment to the desired expansion is infinitely variable by means of the knurled thumb screw.

Bent arm illuminator

- With 2.7 V vacuum lamp, 2.5 V halogen lamp or 3.5 V 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.

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.

Accessories

No. 10440
Nasal speculum

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

No. 10447  1 pair
Laryngeal mirror

1 p a i r
Batteriegriff Typ C

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

Aperture

The corrective lenses from +0.5 to -20 dioptres guarantee a focused image even in the case of strong refractive anomalies.

No. 10423 vacuum 2.7 V
No. 10417 HL 2.5 V
No. 10416 XL 3.5 V

Corrective lenses

<table>
<thead>
<tr>
<th>D</th>
<th>0.5</th>
<th>1</th>
<th>1.5</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>15</th>
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<tr>
<td>D</td>
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<td>1</td>
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<td>6</td>
<td>8</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The corrective lenses from +0.5 to -20 dioptres guarantee a focused image even in the case of strong refractive anomalies.

Aperture

Large circle

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

Tongue blade holder

No. 10445

- Made of stainless steel, durable and sturdy.
- Simple attachment to the bent arm illuminator.

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

Accessories

Wooden tongue depressors

No. 12530 Minimum order amount: 100 Packs (10,000 tongue depressors)

- 100 disposable wooden tongue depressors in a practical dispenser box.
- Smooth and splinter-free tongue depressors with rounded edges, made of high-grade, light birch wood.
- Size: 150 x 18 x 1.7 mm.
- Non-sterile, heated to 70 °C.
- Depressors wrapped individually in paper with advertising print available. Prices available upon request.

Ophthalmological instruments

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

May ophthalmoscope

No. 10423 vacuum 2.7 V
No. 10417 HL 2.5 V
No. 10416 XL 3.5 V

May ophthalmoscope

- With 2.7 V vacuum lamp, 2.5 V halogen lamp or 3.5 V xenon lamp.
- Durable and sturdy metal 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 dioptres.
- Aperture with large circle for examination of the fundus of the eye.
- Simple exchange of the lamp at the base of the instrument head.

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

Simple attachment to the bent arm illuminator.
Lamps

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

2.7 V vacuum lamps

2.7 V vacuum lamps
for otoscope and bent arm illuminator
Pack of 6
No. 10421

2.7 V vacuum lamp
for May ophthalmoscope
Pack of 6
No. 10424

HL 2.5 V halogen lamps

HL 2.5 V halogen lamps
for otoscope and bent arm illuminator
Pack of 6
No. 10590

HL 2.5 V halogen lamp
for May ophthalmoscope
Pack of 6
No. 10591

XL 3.5 V xenon lamps

XL 3.5 V xenon lamp
for otoscope and bent arm illuminator
Pack of 6
No. 10592

XL 3.5 V xenon lamp
for May ophthalmoscope
Pack of 6
No. 10593

* All lamps are shown in the original size.
The Riester product range includes various high-quality and durable power sources. The devices described here are 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 regulating 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® and econom® instrument heads with 2.7 V vacuum, HL 2.5 V halogen or XL 3.5 V xenon.

### Power sources

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

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- 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® and econom® instrument heads with 2.7 V vacuum, HL 2.5 V halogen or XL 3.5 V xenon.

### Battery handle type C with rheostat

- For two batteries type C or for a rechargeable ri-accu® NiMH battery.
- Handle diameter: 28 mm.
- Simple recharging in the ri-charger® charging base.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 10425</td>
<td>2.5 V</td>
<td>with cover, without bore</td>
</tr>
<tr>
<td>No. 10429</td>
<td>2.5 V</td>
<td>with cover, with bore</td>
</tr>
</tbody>
</table>

### Rechargeable NiMH battery ri-accu®

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 10681</td>
<td>2.5 V</td>
<td></td>
</tr>
<tr>
<td>No. 10682</td>
<td>3.5 V</td>
<td></td>
</tr>
</tbody>
</table>

### Alkaline battery 1.5 V, type C

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 10686</td>
<td></td>
</tr>
</tbody>
</table>

### Accessories

#### Battery handle cover

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 10679</td>
<td>without bore</td>
</tr>
<tr>
<td>No. 11682</td>
<td>with bore</td>
</tr>
</tbody>
</table>

#### Plug-in handle with rheostat

- For rechargeable NiMH battery ri-accu®.
- Handle diameter: 28 mm.
- Simple recharging in an electrical socket.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 10430</td>
<td>2.5 V/230 V</td>
<td></td>
</tr>
<tr>
<td>No. 10431</td>
<td>2.5 V/120 V</td>
<td></td>
</tr>
<tr>
<td>No. 10432</td>
<td>3.5 V/230 V</td>
<td></td>
</tr>
<tr>
<td>No. 10433</td>
<td>3.5 V/120 V</td>
<td></td>
</tr>
</tbody>
</table>

#### Rechargeable NiMH battery ri-accu®

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 10683</td>
<td>2.5 V</td>
<td></td>
</tr>
<tr>
<td>No. 10684</td>
<td>3.5 V</td>
<td></td>
</tr>
</tbody>
</table>

#### Combi-handles

- 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Description</th>
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<tbody>
<tr>
<td>No. 10668</td>
<td>230 V</td>
<td></td>
</tr>
<tr>
<td>No. 10669</td>
<td>120 V</td>
<td></td>
</tr>
</tbody>
</table>
Batteriegriff Typ C

Battery handle type D with rheostat without batteries

- For two batteries type D.
- Handle diameter: 36.5 mm.

Alkaline battery 1.5 V, type C

Charging bases

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

- Simultaneous charging of 2.5 V and 3.5 V handles possible.
- 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.

Charging bases

ri-charger® provides more energy – with the use of impulse charging technology. Charging is carried out in three phases – regeneration, charging and maintenance phase – and prolongs the battery service life to a maximum. The memory effect can be successfully prevented.

Ri-changer®

- Complete, with wall mounting

Accessories

Wall mounting with screws and plugs

Reduction insert for handles AA (ri-star®)

Cover for ear specula compartment

Rechargeable NiMH battery ri-accu®

No. 10683 2.5 V

Rechargeable NiMH battery ri-accu®

No. 10681 2.5 V

Alkaline battery 1.5 V, type D

No. 10687

No. 10700 230 V

No. 10701 120 V

No. 10710

No. 10711

No. 10712
Riester uni® and econom® sets are 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 HL halogen 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.

<table>
<thead>
<tr>
<th>Sets</th>
<th>uni® I otoscope</th>
<th>uni® II May ophthalmoscope</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>With reusable ear specula 2, 3 and 4 mm.</td>
<td>In a silver-coloured plastic case with two snap fasteners.</td>
</tr>
</tbody>
</table>

| No. 2010 | vacuum 2.7 V |
| No. 2010-201 | HL 2.5 V |
| No. 2020 | vacuum 2.7 V |
| No. 2020-201 | HL 2.5 V |

| No. 2011-200 | vacuum 2.7 V/230 V |
| No. 2011-201 | HL 2.5 V/230 V |
| No. 2012-200 | vacuum 2.7 V/120 V |
| No. 2012-201 | HL 2.5 V/120 V |
| No. 2013-200 | vacuum 2.7 V/230 V |
| No. 2013-201 | HL 2.5 V/230 V |
| No. 2013-202 | XL 3.5 V/230 V |
| No. 2014-200 | vacuum 2.7 V/120 V |
| No. 2014-201 | HL 2.5 V/120 V |
| No. 2014-202 | XL 3.5 V/120 V |

uni® I otoscope

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

uni® II May ophthalmoscope

- In a silver-coloured plastic case with two snap fasteners.
<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2030</td>
<td>uni® III otoscope, May ophthalmoscope</td>
<td>vacuum 2.7 V</td>
</tr>
<tr>
<td></td>
<td>• With reusable ear specula 2, 3 and 4 mm.</td>
<td>HL 2.5 V</td>
</tr>
<tr>
<td></td>
<td>• In a silver-coloured plastic case with two snap fasteners.</td>
<td></td>
</tr>
<tr>
<td>2050</td>
<td>No. 2050 econom®, nasal speculum expandable</td>
<td>vacuum 2.7 V</td>
</tr>
<tr>
<td></td>
<td>uni® I otoscope head, uni® II May ophthalmoscope head, nasal speculum expandable, bent arm illuminator, 2 laryngeal</td>
<td>HL 2.5 V</td>
</tr>
<tr>
<td></td>
<td>mirrors No. 3 and 4, tongue blade holder, replacement lamp otoscope (also for bent arm illuminator)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• In hard protective deluxe case with sturdy sliding safety catches.</td>
<td></td>
</tr>
<tr>
<td>2050-525</td>
<td>No. 2050-525 econom®, nasal specula 9 mm</td>
<td>vacuum 2.7 V</td>
</tr>
<tr>
<td></td>
<td>uni® I otoscope head, uni® II May ophthalmoscope head, nasal specula 9 mm, bent arm illuminator, 2 laryngeal</td>
<td>HL 2.5 V</td>
</tr>
<tr>
<td></td>
<td>mirrors No. 3 and 4, tongue blade holder, replacement lamp otoscope (also for bent arm illuminator)</td>
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<tr>
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<th>Description</th>
<th>Voltage</th>
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<tr>
<td>2031-200</td>
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<td>vacuum 2.7 V/230 V</td>
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<td>No. 2031-201, nasal speculum expandable</td>
<td>HL 2.5 V/230 V</td>
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<td>XL 3.5 V/230 V</td>
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<tr>
<td>2032-202</td>
<td>No. 2032-202, nasal speculum expandable</td>
<td>XL 3.5 V/120 V</td>
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<td>2051-200</td>
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<td>2052-200</td>
<td>No. 2052-200, nasal speculum expandable</td>
<td>vacuum 2.7 V/120 V</td>
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<tr>
<td>2051-201</td>
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</tr>
<tr>
<td>2052-201</td>
<td>No. 2052-201, nasal speculum expandable</td>
<td>HL 2.5 V/120 V</td>
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<tr>
<td>2051-202</td>
<td>No. 2051-202, nasal speculum expandable</td>
<td>XL 3.5 V/230 V</td>
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<td>2052-202</td>
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<td>XL 3.5 V/120 V</td>
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<td>vacuum 2.7 V/230 V</td>
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<td>No. 2052-525-200, nasal speculum expandable</td>
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<td>HL 2.5 V/120 V</td>
</tr>
<tr>
<td>2051-525-202</td>
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<td>XL 3.5 V/230 V</td>
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<tr>
<td>2052-525-202</td>
<td>No. 2052-525-202, nasal speculum expandable</td>
<td>XL 3.5 V/120 V</td>
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<tr>
<td>2033-200</td>
<td>No. 2033-200, nasal speculum expandable</td>
<td>vacuum 2.7 V/230 V</td>
</tr>
<tr>
<td>2034-200</td>
<td>No. 2034-200, nasal speculum expandable</td>
<td>vacuum 2.7 V/120 V</td>
</tr>
<tr>
<td>2033-201</td>
<td>No. 2033-201, nasal speculum expandable</td>
<td>HL 2.5 V/230 V</td>
</tr>
<tr>
<td>2034-201</td>
<td>No. 2034-201, nasal speculum expandable</td>
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<td>No. 2033-202, nasal speculum expandable</td>
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<td>XL 3.5 V/120 V</td>
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</tbody>
</table>
Riester offers a large selection of products for a variety of applications, including:

- Sphygmomanometers
- Instruments for E.N.T.
- Ophthalmological Instruments
- Dermatological Instruments
- E.N.T. endoscopes
- Thermometers
- Stethoscopes
- Headmirrors, Headlamps, Examination lamps
- Laryngoscopes
- Gynecological Instruments
- Percussion hammers
- Pulse oximeters
- Tuning forks
- Blood stasis products
- Pulmonary pressure measuring devices
- Dynamometers
- Pressure infusion instruments
- Veterinary instruments

You can find detailed descriptions of the products in our catalog (Order no. 51231-50). Or log on to our website: www.riester.de.