LED-lighting
green efficiency
ri-focus® LED
WIRELESS HIGH PERFORMANCE LED HEADLIGHT
POWERED BY LI-BATTERIES OR RECHARGEABLE BATTERIES

green efficiency

- One hand operation
- Wireless and balanced headband with built in battery compartment
- More efficient diagnosis due to white high performance LED (140 lumen)
- Service life of LED up to 50,000 hours
- Significantly less energy consumption and heat generation

• Headband version, with built-in battery compartment and integral charge jack, can be optionally fitted with 2 lithium batteries size CR 123 A, 4 batteries size AAA (alkaline) or 4 rechargeable batteries size AAA (NiMH).
• Headband cleaning made easy by inner, removable and washable padding.
• Particularly comfortable with balanced, infinitely adjustable headband.
• On/off switch on battery compartment.
• Charge jack for plug-in charger integrated in battery compartment.
• Focusable LED lamp at a distance of 40 cm /15.75 inch approx. Ø 40 mm /1.57 inch - Ø 200 mm / 7.87 inch, infinitely adjustable.
• White LED with 6,500 Kelvin.
• Battery operation: approx. 4 hrs. with lithium batteries, approx. 90 min. with alkaline batteries Type AAA.
• Rechargeable battery operation: approx. 90 min. with fully charged battery.
• Weight: 210 g / 0.46 lb without batteries, 242 g / 0.54 lb with CR 123 A lithium batteries, 259 g / 0.57 lb with rechargeable AAA batteries.

<table>
<thead>
<tr>
<th>Distance</th>
<th>400 mm / 15.75 inch</th>
<th>200 mm / 7.87 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lux max</td>
<td>10,000</td>
<td>23,000</td>
</tr>
<tr>
<td>Circle of light max. Ø</td>
<td>200 mm / 7.87 inch</td>
<td>120 mm / 4.73 inch</td>
</tr>
<tr>
<td>Circle of light min. Ø</td>
<td>40 mm / 1.57 inch</td>
<td>30 mm / 1.18 inch</td>
</tr>
</tbody>
</table>

Plug in chargers
230 V Art. No.: 11286
120 V Art. No.: 11286

Batteries
Lithium CR 123 A
2 pcs Art. No.: 11287
AAA NiMH rechargeable batteries
4 pcs Art. No.: 11288

Foam-rubber band
120 mm long Art. No.: 11289

Fabric points
Ø 35 mm Art. No.: 11293
Ø 47 mm Art. No.: 11294

Battery compartment cover
For lithium CR 123 A
Art. No.: 12680
For AAA NiMH rechargeable batteries
Art. No.: 12681

ri-focus® LED
**clar N**

**WIRELESS HIGH PERFORMANCE LED HEADMIRROR**
**POWERED BY LI-BATTERIES OR RECHARGEABLE BATTERIES**

- **green efficiency**
  - One hand operation
  - Wireless and balanced headband with built in battery compartment
  - More efficient diagnosis due to white high performance LED (140 lumen)
  - Service life of LED up to 50,000 hours
  - Significantly less energy consumption and heat generation

- Headband version, with built-in battery compartment and integral charge jack, can be optionally fitted with 2 lithium batteries size CR 123 A, 4 batteries size AAA (alkaline) or 4 rechargeable batteries size AAA (NiMH).
- Headband cleaning made easy by inner, removable and washable padding.
- Particularly comfortable with balanced, infinitely adjustable headband.
- Mirror Ø 55 mm infinitely adjustable and fixable.
- On/off switch on the battery compartment.
- White LED, 1 Watt with 4,000 Kelvin, CRI = 92, 6V, or with 6V vacuum lamp.
- Adjustable lamp holder on the mirror to focus the circle of light.
- Battery operation approx. 30 hrs. with lithium batteries, approx. 90 min. with alkaline batteries Type AAA, approx. 90 min. with rechargeable battery.
- Weight with mirror 55 mm: 209g / 0.46 lb without batteries, 242 g / 0.54 lb with CR 123 A lithium batteries, 258 g / 0.57 lb with rechargeable AAA batteries.

---

**Batteries**
- Lithium CR 123 A
  - 2 pcs Art. No.: 11287
- AAA NiMH rechargeable batteries
  - 4 pcs Art. No.: 11288

**Headband**
- Art. No.: 11295

**Headlights only**
- 6 V vacuum lamp Art. No.: 11280
- LED lamp Art. No.: 11281

**Foam-rubber band**
- 120 mm long Art. No.: 11289

**Fabric points**
- Ø 35 mm Art. No.: 11293
- Ø 47 mm Art. No.: 11294

**Battery compartment cover**
- For lithium CR 123 A
  - Art. No.: 12680
- For AAA NiMH rechargeable batteries
  - Art. No.: 12681

<table>
<thead>
<tr>
<th>Distance</th>
<th>400 mm / 15.75 inch</th>
<th>200 mm / 7.87 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 V vacuum</td>
<td>4,000 Lux</td>
<td>7,300 Lux</td>
</tr>
<tr>
<td>LED</td>
<td>11,600 Lux</td>
<td>30,000 Lux</td>
</tr>
</tbody>
</table>
ri-focus® CL
FOCUSABLE HIGH PERFORMANCE F.O. HEADLIGHT

- Precision optics with micro-focus and ball joint for a homogenous and precisely adjustable light circle according to size and direction.
- Glass fibre cable for cold-light supply with centred cable duct for undisturbed working.
- Ergonomic headband with head bow and removable leather padding for comfortable use even over several hours, infinite height and width adjustment with central wheels adjustable with one hand.
- Optimum light output via choice of 2 different projectors:
  - HL 150 (150 W halogen)
  - XL 24 (24 W xenon)
- Fast plug-in connector for connecting glass fibre cable and light source.
- Adapter light sources of other quality manufacturers.
- Light exit: focusable, double lens system, ball joint.
- Glass fibre cable: length 220 cm / 86.61 inch, diameter 3.5 mm / 0.14 inch.
- Total weight 0.3 kg / 0.66 lb.
- Light sources see page 6

<table>
<thead>
<tr>
<th>Distance</th>
<th>Lux max</th>
<th>Circle of light max. Ø</th>
<th>Circle of light min. Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>With HL 150 cold-light projector</td>
<td>With XL 24 cold-light projector</td>
<td></td>
</tr>
<tr>
<td></td>
<td>400 mm / 15.75 inch</td>
<td>200 mm / 7.87 inch</td>
<td>400 mm / 15.75 inch</td>
</tr>
<tr>
<td></td>
<td>9,500</td>
<td>23,000</td>
<td>9,600</td>
</tr>
<tr>
<td></td>
<td>135 mm / 4.93 inch</td>
<td>90 mm / 1.57 inch</td>
<td>135 mm / 4.93 inch</td>
</tr>
<tr>
<td></td>
<td>105 mm / 4.13 inch</td>
<td>70 mm / 2.76 inch</td>
<td>100 mm / 3.94 inch</td>
</tr>
</tbody>
</table>
ri-clar® CL
F.O. HIGH PERFORMANCE HEADLIGHT WITH PRECISION REFLECTOR

- Precision optics with micro-focus and ball joint for a homogenous and precisely adjustable light point according to size and direction.
- Glass fibre cable for cold-light supply with centred cable duct for undisturbed working.
- Ergonomic headband with head bow and removable leather padding for comfortable use even over several hours, infinite height and width adjustment with central wheels adjustable with one hand.
- Optimum light output via choice of 2 different projectors:
  - HL 150 (150 W halogen)
  - XL 24 (24 W xenon)
- Fast plug-in connector for connecting glass fibre cable and light source.
- Adapter for light sources of other quality manufacturers.
- Light exit: focusable, double lens system, ball joint.
- Glass fibre cable: length 220 cm / 86.61 inch, diameter 3.5 mm / 0.14 inch.
- Total weight 0.3 kg / 0.66 lb.
- Light sources see page 6

Precision reflector for high and homogeneous luminous power.

Rapid plug-in connector for simple and quick connection to the light sources.

<table>
<thead>
<tr>
<th>Distance</th>
<th>With HL 150 cold-light projector</th>
<th>With XL 24 cold-light projector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lux max</td>
<td>19.750</td>
<td>28.500</td>
</tr>
<tr>
<td>Circle of Light Ø</td>
<td>80 mm / 3.15 inch</td>
<td>85 mm / 3.35 inch</td>
</tr>
<tr>
<td></td>
<td>200 mm / 7.87 inch</td>
<td>50 mm / 1.97 inch</td>
</tr>
<tr>
<td>400 mm / 15.75 inch</td>
<td>60.000</td>
<td>78.000</td>
</tr>
</tbody>
</table>
COLD-LIGHT SOURCES HL 150 - XL 24
HALOGEN AND XENON LIGHT-SOURCES FOR F.O. HEADLIGHTS
AND ENDOSCOPY

HL150
- Dimensions: W 175 x H 82.5 x D 202 mm.
- Protective class BF.
- Weight 3.5 kg.
- Light conductor connection: Standard type Storz, interchangeable.
- Lamp: Halogen, 15 V, 150 W.
- Colour temperature: 3.600 K.
- Light control: Infinitely variable via dimmer at constant colour temperature and even fibre illumination.
- Power consumption: 170 W.
- Adapter for other brands on demand.

XL24
- Dimensions: W 175 x H 82.5 x D 202 mm.
- Protective class BF.
- Weight 2.5 kg.
- Light conductor connection: Standard type Storz, interchangeable.
- Lamp: 24 watt xenon short arc lamp with cold-light reflector (service life approx. 500 hours).
- Colour temperature: 5.500 K.
- Light control: Infinitely variable via dimmer at constant colour temperature and even fibre illumination.
- Power consumption: 50 W.
- Adapter for other brands on demand.

ziegler
HEAD MIRROR
- Available with mirror diameter 90 mm / 3.54 inch.
- Sturdy, easy to assemble ball-and-socket joint to turn the mirror in different directions.
- Simple adjustment to the size of the head using the metal buckle on the side of the headband.

Cold-light sources/ziegler
**ri-magic® LED / ri-magic® HPLED**

**HIGH PERFORMANCE LED EXAMINATION LIGHT FOR DIAGNOSIS AND PROCEDURES.**

**NEW: HIGH POWER VERSION (HPLED)**

**green efficiency**

- High performance LED, 6,500 Kelvin.
- Lifetime of the lamp up to 50,000 hours.
- Significantly less heating and energy loss.
- Focusing device at the front of the light head.
- Highly flexible, long special arm can be bent in all directions.
- Rheostat handle for infinitely variable regulation of light intensity.
- Wide-range power cord for 230V/120V.
- Available with a choice of plugs to suit the electrical outlets in your country upon request.
- Available as mobile, wall and examination table or desk design.

**ri-magic® LED**

- **Design for examination couch and desk incl. universal clamp**
  - 230 V/120 V Art. No.: 6230
- **Wall design**
  - 230 V/120 V Art. No.: 6240
- **Floor design**
  - 230 V/120 V Art. No.: 6250

**ri-magic® HPLED**

- **Floor design**
  - 230 V/120 V Art. No.: 6252

**Transformers**

- 230 V/120 V Art. No.: 11340

**Other accessories**

- Stand with adapter incl. base with 5 casters and tube Art. No.: 11343
- Adapter part between stand and lamp arm Art. No.: 11344
- Wall fixture Art. No.: 11345
- Universal clamp Art. No.: 11346

- Sturdy mobile base made of fibreglass and chrome plated pole.
- Diameter 54 cm.
- Easy to move due to low friction castors (antistatic, two castors can be locked).
- Power supply attached to the pole (ri-magic® HPLED only).

### Technical Data

#### **ri-magic® LED**

<table>
<thead>
<tr>
<th>Distance</th>
<th>Lux max</th>
<th>Circle of light max. Ø</th>
<th>Circle of light min. Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 mm / 39.37 inch</td>
<td>20,000</td>
<td>80 mm / 3.15 inch</td>
<td>60 mm / 2.36 inch</td>
</tr>
<tr>
<td>800 mm / 31.50 inch</td>
<td>30,000</td>
<td>100 mm / 3.94 inch</td>
<td>50 mm / 1.97 inch</td>
</tr>
<tr>
<td>600 mm / 23.62 inch</td>
<td>45,000</td>
<td>130 mm / 5.12 inch</td>
<td>35 mm / 1.38 inch</td>
</tr>
<tr>
<td>400 mm / 15.75 inch</td>
<td>55,000</td>
<td>200 mm / 7.87 inch</td>
<td>28 mm / 0.79 inch</td>
</tr>
</tbody>
</table>

#### **ri-magic® HPLED**

<table>
<thead>
<tr>
<th>Distance</th>
<th>Lux max</th>
<th>Circle of light max. Ø</th>
<th>Circle of light min. Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500 mm / 59.06 inch</td>
<td>20,000</td>
<td>80 mm / 3.15 inch</td>
<td>60 mm / 2.36 inch</td>
</tr>
<tr>
<td>1200 mm / 47.24 inch</td>
<td>32,000</td>
<td>100 mm / 3.94 inch</td>
<td>50 mm / 1.97 inch</td>
</tr>
<tr>
<td>1000 mm / 39.37 inch</td>
<td>55,000</td>
<td>130 mm / 5.12 inch</td>
<td>35 mm / 1.38 inch</td>
</tr>
<tr>
<td>800 mm / 31.50 inch</td>
<td>100,000</td>
<td>200 mm / 7.87 inch</td>
<td>28 mm / 0.79 inch</td>
</tr>
<tr>
<td>600 mm / 23.62 inch</td>
<td>170,000</td>
<td>250 mm / 9.84 inch</td>
<td>35 mm / 1.38 inch</td>
</tr>
<tr>
<td>400 mm / 15.75 inch</td>
<td>200,000</td>
<td>300 mm / 11.81 inch</td>
<td>40 mm / 1.57 inch</td>
</tr>
</tbody>
</table>
Distributed by

ECOMED

1800 67 5432
1800 67 5433
sales@ecomed.com.au
www.ecomed.com.au