



**LED-lighting**  
green efficiency

# ri-focus® LED

## WIRELESS HIGH PERFORMANCE LED HEADLIGHT POWERED BY LI-BATTERIES OR RECHARGEABLE BATTERIES

### green efficiency

#### ri-focus® LED

With 1 set of CR 123 A  
lithium batteries  
Art. No.: 6090

With 1 set of NiMH  
rechargeable AAA  
batteries and plug-in  
charger  
230 V Art. No.: 6091  
120 V Art. No.: 6092

Plug in chargers  
230 V Art. No.: 11284  
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

- 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 approx. Ø 40 mm - Ø 200 mm, 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 without batteries, 242 g with CR 123 A lithium batteries, 259 g with rechargeable AAA batteries.



Distance	400 mm	200 mm
Lux max	10.000	23.000
Circle of light max. Ø	200 mm	120 mm
Circle of light min. Ø	40 mm	30 mm

clar N

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

**green efficiency**

clar N

With 1 set of CR 123 A  
lithium batteries  
6 V Vacuum Art. No.: 6070  
LED Art. No.: 6072

With NiMH rechargeable  
AAA batteries and plug-in charger  
6 V Vacuum 230 V Art. No.: 6071  
6 V Vacuum 120 V Art. No.: 6074  
LED 230 V Art. No.: 6073  
LED 120 V Art. No.: 6075

Replacement lamps  
6 V vacuum 6 off Art. No.: 11301  
LED 1 item Art. No.: 11302

Plug in chargers  
230 V Art. No.: 11284  
120 V Art. No.: 11286

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

- 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 5500° Kelvin 6 V, or with 6 V 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: 209 g without batteries, 242 g with CR 123 A lithium batteries, 258 g with rechargeable AAA batteries.



Distance	400 mm	200 mm
6 V vacuum	4.000 lux	7.300 lux
LED	11.600 lux	30.000 lux

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# ri-focus® CL

## FOCUSABLE HIGH PERFORMANCE F.O. HEADLIGHT

ri-focus® CL  
Art. No.: 6303

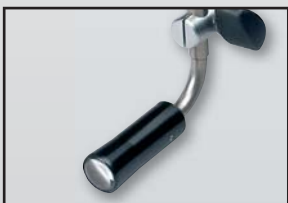
Replacement headband  
Art. No.: 12124

Replacement leather  
padding, black  
Art. No.: 12125

- 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, diameter 3.5 mm.
- Total weight 0.3 kg.
- Light sources see page 6



High fitting accuracy with adjustable wheel on the headband.



The light point can be precisely adjusted with microfocus and ball joint.



With HL 150 cold-light projector      With XL 24 cold-light projector

	400 mm	200 mm	400 mm	200 mm
Distance				
Lux max	9.500	23.000	9.600	36.500
Circle of light max. Ø	135 mm	90 mm	135 mm	75 mm
Circle of light min. Ø	105 mm	70 mm	100 mm	55 mm

ri-focus® CL

# ri-clar® CL

## F.O. HIGH PERFORMANCE HEADLIGHT WITH PRECISION REFLECTOR

**ri-clar® CL**  
Art. No.: 6304

Replacement headband  
Art. No.: 12124

Replacement leather  
padding, black  
Art. No.: 12125

- 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, diameter 3.5 mm.
- Total weight 0.3 kg.
- 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.



With HL 150 cold-light projector

With XL 24 cold-light projector

	400 mm	200 mm	400 mm	200 mm
Distance				
Lux max	19.750	60.000	28.500	78.000
Circle of light Ø	80 mm	45 mm	85 mm	50 mm

## COLD-LIGHT SOURCES HL 150 - XL 24

### HALOGEN AND XENON LIGHT-SOURCES FOR F.O. HEADLIGHTS AND ENDOSCOPY

#### HL150

HL 150  
230 V Art. No.: 6300  
120 V Art. No.: 6305

XL 24  
230 V Art. No.: 6301  
120 V Art. No.: 6306

Replacement lamps  
HL 150 Art. No.: 12132  
XL 24 Art. No.: 12133

- 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: 3600° 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: 5500° 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

ziegler in case  
Ø 90 mm Art. No.: 6005

Headbands  
Art. No.: 11305

Headlights only with joint  
Ø 90 mm Art. No.: 11312

- Available with mirror diameter 90 mm.
- 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

**HIGH PERFORMANCE MEDICAL LED LIGHT FOR DIAGNOSIS AND PROCEDURES. AVAILABLE AS MOBILE, WALL AND EXAMINATION COUCH OR DESK DESIGN**

### green efficiency

#### 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

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

- 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 plugs to suit the electrical outlets in your country upon request.



- Sturdy mobile base made of fibreglass and chrome plated pole.
- Diameter 54 cm.
- Easy to move due to low friction castors (anti-static, two castors can be locked)



Distance	1000 mm	800 mm	600 mm	400 mm	200 mm
Lux max	15.000	20.000	30.000	45.000	55.000
Circle of light max. Ø	340 mm	270 mm	215 mm	155 mm	90 mm
Circle of light min. Ø	40 mm	35 mm	30 mm	25 mm	20 mm

