

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

rechargeable batteries Art. No.: 12681

For AAA NiMH

- 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.



Distance	400 mm / 15.75 inch	200 mm / 7.87 inch
Lux max	10.000	23.000
Circle of light max. Ø	200 mm / 7.87 inch	120 mm / 4.73 inch
Circle of light min. Ø	40 mm / 1.57 inch	30 mm / 1.18 inch

ri-focus® LED

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 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.



Distance	400 mm / 15.75 inch	200 mm / 7.87 inch
6 V vacuum	4.000 Lux	7.300 Lux
LED	11.600 Lux	30.000 Lux

clar N

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 / 86.61 inch, diameter 3.5 mm / 0.14 inch.
- Total weight 0.3 kg / 0.66 lb.
- 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

Distance						
Lux max						
Circle of light max. Ø						
Circle of light min. Ø						

400 mm / 15.75 inch	200 mm / 7.87 inch	400 mm / 15.75 inch	200 mm / 7.87 inch	
9.500	23.000	9.600	36.500	
135 mm / 4.73 inch	90 mm / 1.57 inch	135 mm / 4.73 inch	75 mm / 2.95 inch	

With XL 24 cold-light projector

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 / 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.



With HL 150 cold-light projector

Distance	
Lux max	
Circle of light	Ø

400 mm / 15.75 inch	200 mm / 7.87 inch	400 mm / 15.75 inch	200 mm / 7.87 inch
19.750	60.000	28.500	78.000
80 mm / 3.15 inch	45 mm / 1.77 inch	85 mm / 3.35 inch	50 mm / 1.97 inch

With XL 24 cold-light projector

COLD-LIGHT SOURCES HL 150 - XL 24

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

150

XL 24

230 V Art. No.: 6300

120 V Art. No.: 6305

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.

HL150

- 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

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 / 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

ri-magic® LED

couch and desk incl. universal clamp

Wall design

Floor design

Transformers

and lamp arm

Wall fixture

Art. No.: 11344

Art. No.: 11345

Universal clamp

Art. No.: 11346

Other accessories

Design for examination

230 V/120 V Art. No.: 6230

230 V/120 V Art. No.: 6240

230 V/120 V Art. No.: 6250

230 V/120 V Art. No.: 6252

230 V/120 V Art. No.: 11340

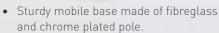
Stand with adapter incl. base with 5 casters and tube Art. No.: 11343

Adapter part between stand

ri-magic® HPLED Floor design

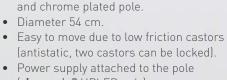
- High performance LED, 6.500 Kelvin.
 - Lifetime of the lamp up to 50.000 hours.
 - Significantly less heating and energy loss.
 - Focusing device at the front of the light head.
 - Highly flexible, long special arm can be bent in all directions.
 - Rheostat handle for infinitely variable regulation 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.





- (antistatic, two castors can be locked).
- (ri-magic® HPLED only).







ri-magic® LED

<u> </u>
Distance
Lux max
Circle of light max. Ø
Circle of light min. Ø

1.000 mm / 39.37 inch	800 mm / 31.50 inch	600 mm / 23.62 inch	400 mm / 15.75 inch	200 mm / 7.87 inch
15.000	20.000	30.000	45.000	55.000
340 mm / 13.39 inch	270 mm / 10.63 inch	215 mm / 8.47 inch	155 mm / 6.10 inch	90 mm / 1.57 inch

ri-magic® HPLED

Distance	1.000 mm / 39.37 inch	800 mm / 31.50 inch	600 mm / 23.62 inch	400 mm / 15.75 inch	200 mm / 7.87 inch
Lux max	20.000	32.000	55.000	100.000	170.000
Circle of light max. Ø	500 mm / 19.69 inch	400 mm / 15.75 inch	320 mm / 12.60 inch	230 mm / 9.05 inch	130 mm / 5.12 inch
Circle of light min. Ø	80 mm / 3.15 inch	60 mm / 2.36 inch	50 mm / 1.97 inch	35 mm / 1.38 inch	20 mm / 0.79 inch

ri-magic® LED



MERCOFRAMES OPTICAL CORP

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