



LED-lighting

green efficiency

ri-focus® LED

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

Order numbers

ri-focus® LED

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

With 1 set of NiMH rechargeable AAA batteries and plug-in charger

230 V **No. 6091**
120 V **No. 6092**

Plug in chargers

230 V **No. 11284**
120 V **No. 11286**

Batteries

Lithium CR 123 A
2 off **No. 11287**
AAA NiMH rechargeable batteries
4 off **No. 11288**

Foam-rubber band

120 mm long **No. 11289**

Fabric points

Ø 35 mm **No. 11293**
Ø 47 mm **No. 11294**

Battery compartment cover

For lithium CR 123 A
No. 12680
For AAA NiMH rechargeable batteries
No. 12681

green efficiency

- One hand operation
- Wireless and balanced headband with built in battery compartment
- More efficient diagnosis due to white and 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

Lux max

Circle of light max. Ø

Circle of light min. Ø

	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

Order numbers

clar N

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

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

Replacement lamps

6 V vacuum 6 off **No. 11301**
LED 1 item **No. 11302**

Plug in chargers

230 V **No. 11284**
120 V **No. 11286**

Batteries

Lithium CR 123 A
2 off **No. 11287**
AAA NiMH
rechargeable batteries
4 off **No. 11288**

Headband

No. 11295

Headlights only

6 V vacuum lamp **No.11280**
LED lamp **No.11281**

Foam-rubber band

120 mm long **No. 11289**

Fabric points

Ø 35 mm **No. 11293**
Ø 47 mm **No. 11294**

Battery compartment cover

For lithium CR 123 A
No. 12680
For AAA NiMH
rechargeable batteries
No. 12687

green efficiency

- One hand operation
 - Wireless and balanced headband with built in battery compartment
 - More efficient diagnosis due to white and 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.



	400 mm	200 mm
Distance		
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

Order numbers

ri-focus® CL
No. 6303

Replacement headband with head bow, black

2 x fast adjustment, black
leather padding with
pushbuttons ball plate,
cable holder
No. 12124

Replacement leather padding, black 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 3 different projectors:
 - HL 150 (150 W halogen)
 - XL 24 (24 W xenon)
- Fast push connector for connecting glass fibre cable and light source.
- Adapter for projectors 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.



2 different projectors

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

F.O. HIGH PERFORMANCE HEADLIGHT WITH PRECISION REFLECTOR

Order numbers

ri-clar® CL
No. 6304

Replacement headband with head bow, black

2 x fast adjustment, black leather padding with pushbuttons ball plate, cable holder
No. 12124

Replacement leather padding, black
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 3 different projectors:
 - HL 150 (150 W halogen)
 - XL 24 (24 W xenon)
- Fast push connector for connecting glass fibre cable and light source.
- Adapter for projectors 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.



2 different projectors

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.

Order numbers

HL 150
230 V **No. 6300**
120 V **No. 6305**

XL 24
230 V **No. 6301**
120 V **No. 6306**

Replacement lamps

HL 150 **No. 12132**
XL 24 **No. 12133**

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: 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

Order numbers

ziegler in case
Ø 90 mm **No. 6005**
Ø 100 mm **No. 6010**

Headbands
No. 11305

Headlights only with joint

Ø 90 mm **No. 11312**
Ø 100 mm **No. 11313**

- Optional models available with mirror diameter 90 mm or diameter 100 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.

Order numbers

ri-magic® LED
Design for examination
couch and desk
incl. universal clamp
230 V/120 V **No. 6230**

Wall design
230 V/120 V **No. 6240**

Floor design
230 V/120 V **No. 6250**

Transformers
230 V/120 V **No. 11340**

Other accessories
Stand with adapter incl. base
with 5 casters and tube
No. 11343

Adapter part between stand
and lamp arm
No. 11344

Wall fixture
No. 11345

Universal clamp
No. 11346

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



- Sturdy mobile base made of fibreglass and chrome plated pole.
- Diameter 53 cm.
- Easy to move due to low friction castors (anti-static, two castors can be locked)

Distance

Lux max


Circle of light max. Ø

Circle of light min. Ø

	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

ri-magic® LED



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