



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 /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

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

With XL 24 cold-light projector

	400 mm / 15.75 inch	200 mm / 7.87 inch	400 mm / 15.75 inch	200 mm / 7.87 inch
Distance				
Lux max	9.500	23.000	9.600	36.500
Circle of light max. Ø	135 mm / 4.73 inch	90 mm / 1.57 inch	135 mm / 4.73 inch	75 mm / 2.95 inch
Circle of light min. Ø	105 mm / 4.13 inch	70 mm / 2.76 inch	100 mm / 3.94 inch	55 mm / 2.17 inch

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

With XL 24 cold-light projector

	400 mm / 15.75 inch	200 mm / 7.87 inch	400 mm / 15.75 inch	200 mm / 7.87 inch
Distance				
Lux max	19.750	60.000	28.500	78.000
Circle of light Ø	80 mm / 3.15 inch	45 mm / 1.77 inch	85 mm / 3.35 inch	50 mm / 1.97 inch

COLD-LIGHT SOURCES HL 150 - XL 24

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

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

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

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

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

- 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.



- 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).

ri-magic® LED

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	15.000	20.000	30.000	45.000	55.000
Circle of light max. Ø	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
Circle of light min. Ø	40 mm / 1.58 inch	35 mm / 1.38 inch	30 mm / 1.18 inch	25 mm / 0.98 inch	20 mm / 0.79 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

