




EXTREME SPORTS LIGHT

Headlamps 2015

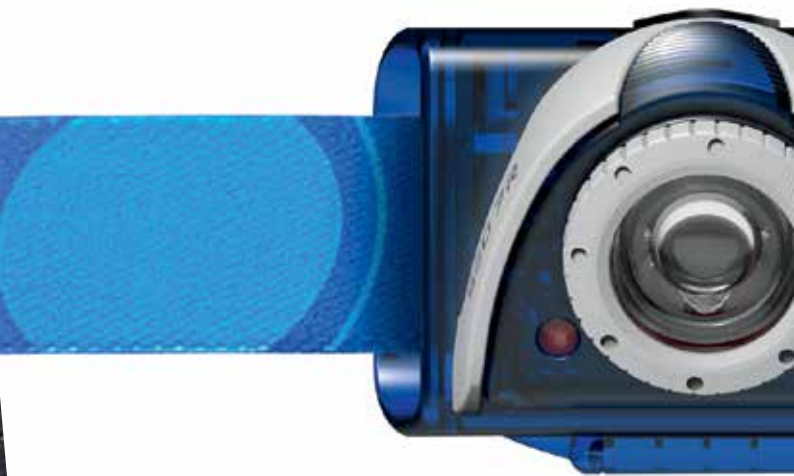


LED LENSER® 



**I AM
THE LIGHT
FOR YOUR
ACTION ADVENTURE**





LED LENSER®. The light. As of page 4

Quality, innovation and sustainability are important to us. Here, you will find out what else we represent.

Technologies. As of page 6

Our headlamps are full of passion and expertise. And we continue to develop them further. On pages 6 to 9, we will introduce you to some of the most important technologies incorporated in our headlamps.

Headlamps. As of page 10

Flexible, light and with a small head, the LED LENSER® headlamps of the XEO, H, SEO and NEO series are designed specifically for all runners, bikers and for action sports!

Glossary. As of page 30

Knowledge is power and we make high-end headlamps with a kick. Read more here.

THE EPIC LIGHT

When you're enjoying the moment so much that you forget the time, darkness can fall faster than you would want it to. Headlamps from LED LENSEER® help to extend the daylight. Pack some light into your rucksack and take a trip!

Our headlamps enable unique orientation up close and, above all, ensure your safety.
LED LENSER®. The light.



LED LENSER®. Quality. Engineered in Germany. Innovation. Sustainability.

For us the slogan "Engineered in Germany" is not just empty words, they represent the highest of demands in innovation, materials, technology, processing and sustainability.

Our environment is important to us. For this reason, we construct our headlamps using a modular system design. This means almost all parts can be replaced individually. In the event of a battery leak it is possible, for example, to simply replace the battery cartridge and not the entire headlamp. Easy on the environment and the budget.

All our headlamps are equipped with the most modern of technologies.

And we are constantly improving and further developing them. LED LENSER® are not just headlamps. Our claim is the appropriate light for your individual requirements, and we use the sun as our role model.

Customer satisfaction is key. Our Service department can be reached at **+49 (0) 212 5948-111** and will help you directly and simply – in the event something no longer functions the way it should.

You will also contact us on Facebook **www.facebook.com/LedLenser**, visit our website **www.ledlenser.com** or the forum **www.ledlenser.com/forum**.



**Engineered
in Germany**



**Great
customer
satisfaction**



**Simple
Service**



THE USEFUL LIGHT

Our patent. **The Advanced Focus System.**

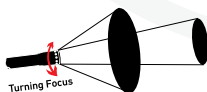
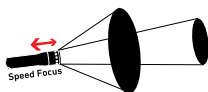
Does more than just focus. Even the specialists are astounded: Our patented focusing system, a combination of lense and reflector, enables light to be precisely tailored with unimaginable efficiency.



CONCENTRATED. *Focused* it ensures a directed and strong long-distance beam.



WIDE. *Defocused* it ensures a circular floodlight which illuminates a large area.



The helpful light. Speed Focus®.

FURTHER DEVELOPED.

Speed Focus®, the one-handed sliding mechanism, is flexible, fast and reliable. And practical too. The focus of the light can be changed in split seconds. And you only need one hand, leaving the other free to hold on to other important things.

The turning light. Turning Focus.

CAN BE ROTATED.

The LED headlamps have everything in view, thanks to the Turning Focus. The focus can be infinitely adjusted. Ideal, the handy rotating head makes it easy to convert close-up light into a sharply focused long-distance beam.

The dimming light. OPTISENSE® Technology.

AUTOMATIC.

Sometimes it's dusky, sometimes shadowy, sometimes murky and sometimes pitch black. It is good to know that you can always trust in the innovative dimmer function of your LED LENSER®. This function automatically regulates the illumination in accordance with the reflecting light and thus prevents dazzling.

THE AMAZING LIGHT

Intelligent. **Smart Light Technology.**

Taking a look far ahead of you and then immediately looking down at the map? In emergency situations, using the automatic SOS flash function or dazzling an attacker? Sending individual morse messages? Dimming the light in the tent or using the stroboscope to enhance the ambiance of a party?

Microcontrollers make all this possible, quite simply. They save light programs with a variety of functions in order to make them easier to use.

The push button and switch combinations are used to select the desired function, ensuring you always have the ideal light function at your disposal.

The **Smart Light Technology** also monitors the charge state of the batteries and informs you, in good time, when the batteries need changing, thus ensuring you are never suddenly left out in the dark.





Energy Modes. Functions.

The Energy Modes are microcontroller controlled "Basic settings" for your LED LENSER®:

ECONOMIC. You know that you will be out for a long time and you don't need the full performance? Switch to the **Energy Saving Mode** and optimize the operation time.

ONGOING. Or do you instead need constant light with full power? In this case, the **Constant Current Mode** is just what you need.

Explanation in short. The light functions.



BOOST Briefly press the button to obtain more light for a short time.



DIM Infinite regulation of the lighting strength between 15% and 100%.



DEFENCE STROBE Rapid flashes of light act as effective self-defence.



POWER High lighting performance for every situation.



BLINK Automatic transmission of light impulses at regular intervals.



STROBE Rapid light flashes with an irritating dazzling effect for use in an emergency.



LOW POWER For glare-free reading and working.



POSITION To mark a position.



SOS In an emergency, the SOS function will guide assistance towards you.



NOTLICHT Extra long lighting duration.



MORSE /TACTICAL TASK Simple transmission of signals using the switch.



***I ADAPT
TO YOUR
SPEED***





**Extremely bright. Extremely active.
Extremely well-tailored to your needs.**
The LED LENSER® XEO.

For everyone with a love for extremes. Whether it be bikes, boards or skis: Finally there is a superlative high-end headlamp, the LED LENSER® XEO. This headlamp is fitted with a world innovation, two independently adjustable LED light cannons that live up to every challenge thrown at them.

The special feature: The LEDs adapt individually to your performance. The faster you are, the brighter the headlamp lights. Offering up to an unbelievable 2000 Lumen of lighting power in Boost mode. And the LEDs can also be individually focused. The light is optimally distributed at all times and tailored to your needs.

And the operation? Controlling high-end technology has never been easier. The 5-way switch is fitted with three power levels, an adjustable dimmer and emergency light. And the XEO isn't just a headlamp, it can also be handheld.

LED LENSER® XEO

The more active you are, the brighter the light.

Available in three colors:



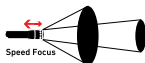
The simplest of operating methods, a 5-way switch with 6 light functions: Boost, Power, Low Power, OPTISENSE®, Emergency Light and Strobe.



Separate focus control.

The world innovation for optimum light distribution, 2 individually adjustable LED cannons!

No "tunnel vision" anymore, best spill and hot spot.



Multi-functional, coupled with housing and brackets, it can be used in a variety of ways.

4 hours of lighting time in Boost mode, 20 hours in Low Power mode.²

The Power Box can also be used separately as a powerful and convenient powerbank.

Flexible to use, can also be worn on trousers or belt.

LED LENSER® XEO

High-end technology meets high-end design.



MODEL	XEO 19 R
LED(s) Quantity/ Model	2 x High End Power LED
Dimensions	
Head diameter (mm)	38.3
Weight of head element without Power Box (g)	192
Weight of Power Box (g)	280
Technical data	
Luminous flux (lm) ¹ Boost/Power/Low Power	2000/1000/200
Lighting range (m) ¹ Boost/Power/Low Power	300/220/100
Lighting duration (h) ² Boost/Power/Low Power	4/8/20
Energy tank (Wh) ⁵	32.56
Voltage supply	4 x 18650 Li-ion
Rechargeable	•
Technologies	
Smart Light Technology	•
Advanced Focus System	•
Speed Focus®	•
X-LENS Technology	•
OPTISENSE® Technology	•

1, 2, 5 Information on page 31.



I AM YOUR LEADING LIGHT





**Strong performance. Strong functions.
Strong tool.**

The LED LENSER® H series.

Quality and functionality. Two things that are key factors in the H series. Quite literally. Here, you can easily, rapidly and infinitely set the focus, or use the dimmer to adjust the brightness. You have a variety of different light programs and functions that will enable you to do this. Perfect for keeping an eye on everything, whether you're trail running, mountain biking or jogging.

The innovative LEDs provide radiant bright lighting up to 300 meters away. The ergonomic design is also excellent. This not only offers the best possible wearing convenience, it is also winner of the red dot design award 2014. Technology can also be attractive.

LED LENSER® H14R.2

With batteries or battery packs.
Perfect for running or cycling.

Modern universal bracket
offers versatile usage and
mounting options.

For individuals.
3 light programs
and 5 functions,
for all your needs.

Xtreme Power LED –
Ultra-bright, brilliant
light cone.

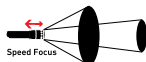
Environmentally friendly
thanks to the rechargeable
battery pack.



red dot award 2014
winner

Intelligent software designed to
optimize energy consumption.

Infinite focus function improves
vision both near and far.



LED LENSER® H series

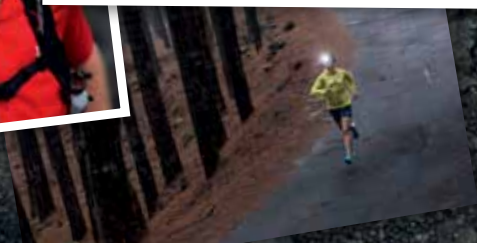
High performance technology
as individual as you are.



MODEL	H14R.2	H14.2	H7R.2	H7.2	H5	H3
LED(s) Quantity/ Model	1 x Xtreme Power	1 x Xtreme Power	1 x Xtreme Power	1 x High End Power	1 x Power LED	3 x High End LED
Dimensions						
Head diameter (mm)	37	37	34.9	34.9	28	28
Weight (g)	340	340	165	165	120	114
Technical data						
Luminous flux (lm) ³	850	350	300	250	25	60
Lighting distance (m) ³	300	260	160	160	70	31
Lighting duration (h) ⁴	40	60	60	60	20	62
Energy tank (Wh) ⁵	16.3	16.8	5.2	7.2	5.4	5.4
Voltage supply	1 x Li-ion battery pack	4 x AA	1 x Li-ion 3.7 V	4 x AAA	3 x AAA	3 x AAA
Rechargeable	•		•			
Technologies						
Smart Light Technology	•	•	•	•		
Advanced Focus System	•	•	•	•	•	
Turning Focus			•	•	•	
Speed Focus®	•	•				



***I AM YOUR
ENJOYMENT***





Cool design. Fresh colors.
More action.

The LED LENSER® SEO series.

Are you sporty, out and about a lot and ready for any action adventure? Do you ride your bike cross-country or run off the beaten track? If so, you should take a closer look at the SEO.

The young, dynamic LED LENSER® SEO series shows itself from its best side in every situation, not just with regard to the cool, colorful style and the well-thought-out design. The modern headlamp is as multi-faceted and spontaneous as you are. Thanks to the light weight and innovative functions, it is able to safely cope with any trip. The functions include, for example, three lighting modes, glare-free red light and an infinite focusing function. The integrated transport lock is a great feature that ensures the SEO is never switched on accidentally, for example, in a rucksack.

LED LENSER® SEO 7R

Welcome to the premium lighting class!

The automatic dimmer (OPTISENSE® Technology) regulates the lighting performance in accordance with the reflected light.

Simple to use –
1 switch, 3 light modes.

Everything at a glance – head
can be swiveled infinitely.

Glare-free red LED
with flashing function.

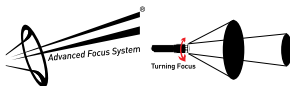
A white high-end
Power LED.

Battery pack with
(USB) charging
cable – environ-
mentally-friendly,
practical and no
need for expensive
batteries.



Stylish and award-winning
with blue housing.

Improved close and distance
lighting – infinite focus function.



LED LENSER® SEO series

Makes every trip simply a pleasure.

Replaceable
and washable
headbands.



MODEL	SEO 7R	SEO 5	SEO 3
LED(s) Quantity/ Model/Color	1 x High End Power, white 1 x High End, red	1 x High End Power, white 1 x High End, red	1 x High End Power, white 1 x High End, red
Dimensions			
Head diameter (mm)	28	28	28
Weight (g)	93	105	105
Technical data			
Luminous flux (lm)⁶ Power/Low Power	220 / 20	180 / 20	100 / 15
Lighting range (m)⁶ Power/Low Power	130 / 40	120 / 40	100 / 30
Lighting duration (h)⁶ Power/Low Power	5 / 20	7 / 25	10 / 40
Energy tank (Wh)⁵	3.2	5.4	5.4
Voltage supply	1 x Li-ion battery pack	3 x AAA	3 x AAA
Rechargeable	•		
Technologies			
Smart Light Technology	•	•	•
Advanced Focus System	•	•	•
Turning Focus	•	•	•
Colors	●	● ●	● ●



***I AM THE LIGHT WITH
A FORMAT***





16:9. Always at hand. Simply fun. The LED LENSER® NEO.

As soon as darkness falls, the NEO turns into a real highlight. The NEO shows you just where to go when you want to quickly jog another lap of the park, cruise the city on your bike, or when you're out and about on inline skates. With an extremely wide illumination scope of 16:9, you are guaranteed to never miss a thing again, not even at night. At the same time, the oval shape and the red flashing rear light mean that you also cannot be missed.

Although the cost-effective headlamp only weighs 54 grams (with batteries 88 grams) the neon-colored lightweight is, nevertheless, a convincing device from the very start. The compact, modern design, the LED LENSER® LED quality and a lighting duration of up to 100 hours all go towards making the NEO a trendy companion that you won't want to live without.

LED LENSER® NEO

See and be seen – in the 16 : 9 wide beam format.

Available in 5 neon colors:



Simple to operate –
1 switch, 3 light modes.

Optimum illumination close up in Power mode; reading without dazzling in Low Power mode and excellent visibility in the flashing mode, for example, when on the roads.

Visible, safe and extremely bright thanks to the wide beam format – oval lamp shape with an extremely wide illumination range (16 : 9).



Be seen – the red flashing rear light is integrated in the battery compartment.

For trend setters and individualists – strong neon colors that attract attention.



Lightweight – high wearing comfort.

LED LENSER® NEO

Small, light and strong.



MODEL	NEO
LED(s) Quantity/ Model/Color	1 x High End Power LED, white 1 x High End LED, red
Dimensions	
Weight without batteries (g)	54
Technical data	
Luminous flux (lm)⁷ Power/Low Power/Blink	90/20/20
Lighting distance (m)⁷	10
Lighting duration (h)⁴ Power/Low Power/Blink	10/40/100
Energy tank (Wh)⁵	5.4
Voltage supply	3 x AAA 1.5 V
Technologies	
Smart Light Technology	•
Wide beam format	•

THE ABUNDANT LIGHT

Accessory highlights. For the XEO.



MORE POWER. The **power box** can be used to power the XEO, and thanks to the USB connection, generally as a powerful and convenient power bank too, e.g. to charge a smartphone.
Item No: 7709
RRP: 49.90 €



MORE FIXATION. In order to ensure your headlamp remains exactly where it belongs, the XEO also offers a **helm fixture** as an accessory. Can be glued or affixed with hook and loop.
Item No: 0402
RRP: 9.90 €



MORE FREEDOM. Is the power box too heavy to be worn on the head permanently? No problem! The **belt clip** lets you easily and securely wear the power box on your hip (extension cord is required).
Item No: 0405
RRP: 4.90 €



MORE PREPARED. With the **GoPro connector** the XEO 19R can be used with the entire range of GoPro accessories (not included in the scope of delivery), e.g. the suction cup of the pipe clip.
Item No: 0400
RRP: 9.90 €



Accessory highlights. For the H series.



MORE COLOR.

Do you want to change the color of your light? The **filter set** and the 4 different colored films enable you to change colors easily.
Item No: 0313-F
RRP: 19.90 €



MORE HOLD.

Thanks to 3 hook and loop straps, the **helm fixture** is well attached and the headlamp securely fixed in place.
Item No: 0393
RRP: 9.90 €



MORE OPTIONS.

With the **universal mounting bracket**⁸ you can simply attach your headlamp to the handlebars of your bike while you cruise.
Item No: 0363
RRP: 17.90 €



MORE FLEXIBILITY.

Recharge your headlamp without a cable! The **12 volt car charger** has an USB adapter and fits into any cigarette lighter.
Item No: 0380
RRP: 7.90 €

Accessory highlights. For the SEO series.



MORE

INDIVIDUALISM.

Choose from green, red, black or reflecting. There are a variety of **SEO headbands**. These are particularly soft and pleasant to wear. (For details, see pages 28/29).



MORE BONDING.

Bright lighting, despite the helmet. The SEO, of course, also has a **helm fixture** that can be adhered to helmets.
Item No: 0368
RRP: 9.90 €

Accessories. Overview.



MODEL	XEO	H14R.2	H14.2
Bike universal bracket (1x headlamp, 1x power box)	•		
GoPro accessory connection set (set contains 2 items)	•		
TriPod connection bracket	•		
Helm fixture	•		
Power box (including waist clip)	•		
Belt clip	•		
Power set (power box + power supply + USB adapter cable)		•	
USB car charger		•	
Helm fixture		•	•
Color filter set		•	•
Bike universal bracket		•	•
Elastic helmet strap (non-slip, reflective, black)			
Reflective headband (gray)			
Headband, green			
Headband, gray			
Headband, red			
Headband, blue			
Helm fixture			



H7R.2	SEO 7R	SEO 5	SEO 3	ITEM NO
				0404
				0400
				0401
				0402
				7709
				0405
•				0411
•	•			0380
				0393
				0313-F
				0363
	•	•	•	0390
	•	•	•	0374
	•	•	•	0373
	•	•	•	0375
	•	•	•	0376
	•	•	•	0377
	•	•	•	0397

Glossary. Terms, explained briefly.

ADVANCED

FOCUS SYSTEM

A special patented (EP 1880 139 B1) "focusing system" from LED LENSER® which combines the benefits of lenses and reflectors. This has resulted in our reflector lens that is capable of bundling twice as much light into the focus as traditional reflectors. This enables an unbelievable long-distance beam. At the same time, the reflector lens is also able to produce a circular, homogeneous light that is ideal for reading or for lighting close up.

THE WIDE BEAM FORMAT

Takes into account that people tend to gaze in a horizontal manner rather than vertically and the field of vision is approximately 190 horizontally and 150 vertically. Due to the oval shape of the lamp and the Wide Beam reflector, the safety factor is increased. You can be seen from every angle!

DYNAMIC SWITCH

During use, it is sometimes necessary to suddenly switch to bright light and then regulate the brightness back to normal just as quickly. Our new Dynamic Switch makes both of these functions possible. With one hand. In a split second.

ENERGY TANK

Specifies the overall performance of all batteries in the headlamp. For example: 4 x AA x 2800 mAh x 1.5 Volt = 16.8 Watt hours (Wh).

FOCUSED

In the focus setting, the reflector bundles the light forwards. In addition, the diffused light emitted by conventional reflectors is bundled by the lens. The advantage: Up to twice as much light in focus than with traditional reflectors.

DEFOCUSED

Is understood to mean a circular beam of light, suitable primarily for reading and for close up. A circular and homogeneous light can be created with a diode in front of the lens.

HOMOGENEOUS LIGHT

Homogeneous light is evenly distributed light. The Advanced Focus System guarantees glare-free and homogeneous light. Traditional reflectors, insofar as these can be focused, throw concentric circles in a defocused state and project a black hole in the middle. This makes precision work more difficult.

LED

An LED (Light Emitting Diode) is an electronic light source. They are based on so-called semi-conductors such as gallium, silicon or arsenic. In order to be able to emit highly efficient light, they must be extremely pure and fulfill certain requirements. They are not sensitive to impact. And last 1000 times longer than a traditional light bulb while generating very little heat and consuming little power. LEDs do not contain any hazardous gases nor do they generate UV radiation.

LUMEN

Lumen is the unit of measurement used to measure real reflected light quantities (luminous flux). Unlike other manufacturers, we measure the lumen that is radiated from our reflectors (with fresh batteries), thus without any losses incurred in the reflector/lamp head.

MODULAR SYSTEM

LED LENSER® headlamps have a modular construction. This means that individual components may be replaced if required. This also makes cleaning the devices easier, for example, after extreme usage.

OPTISENSE® TECHNOLOGY

Sometimes it's dusky, sometimes shadowy, sometimes murky and sometimes pitch black. It is good to know that you can always trust in the innovative dimmer function of your LED LENSER®. This function automatically regulates the illumination in accordance with the reflecting light and thus prevents dazzling.

REFLECTOR LENSE

We have combined the benefits of lenses with the benefits of reflector technology. The result is both a homogeneous circular beam of light close up and an extremely strong light for long-distance use.

SMART LIGHT TECHNOLOGY

To ensure that headlamps are ideally optimized to your individual needs, the Smart Light Technology creates very personalized lighting tools. This is made possible by the microcontrollers that save light programs with a variety of functional scopes in con-

Footnotes.

junction with button and switch combinations.

SPEED FOCUS®

Switch from circular light up close to a heavily focused long-distance beam. Thanks to the one-handed sliding mechanism of the Speed Focus this function can be operated with just one hand. It couldn't be easier to quickly, simply and reliably switch the light mode.

TURNING FOCUS

The LED headlamps have everything in view, thanks to the Turning Focus. The focus can be infinitely adjusted. Ideal, the handy rotating head makes it easy to convert close-up light into a sharply focused long-distance beam.

X-LENS TECHNOLOGY

The X-LENS technology multiplies the advantages of our Advanced Focus System (AFS) and lifts the results into a new, light qualitative dimension. But above all, we optimize our lenses with the help of intricate computer calculations in order to create a compound of perfectly synchronized bundled rays. The precision and brightness of not one, but an almost infinite number of reflector lenses contributes towards ensuring a practically unbelievable lighting experience. The result is an extremely homogeneous stage-like floodlight as well as a sharply bundled long-distance beam that is as surprising as it is elegant.

¹ Lumen (lm) or maximum lighting distance (m) measured in Boost/Power/Low Power Mode when switching on with a full charged battery pack. These are average values that may deviate by +/-15% in individual instances in accordance with chip and battery pack. The Boost function is available multiple times, but only for a very brief period of time.

² Average lighting duration (h) in Boost/Power/Low Power mode up to a luminous flux of 1 lumen.

³ Luminous flux (lumen) or maximum lighting range (in meters) is measured using the brightest setting when switching on with a fully charged battery pack or with fresh alkaline batteries. These are average values that may deviate by +/-15% in individual instances in accordance with chip and batteries/battery pack. The Boost function (if included) is available multiple times, but only for a very brief period of time.

⁴ The average lighting duration (h) of the lowest setting is up to a luminous flux of 1 lumen.

⁵ Calculated value of the capacity in Watt hours (Wh). This applies to the battery(ies) contained in the relevant product in the delivered state or, for flashlights with battery pack(s), when the batteries are in a fully charged state. The Boost function (if included) is available multiple times, but only for a very brief period of time.

⁶ Measured values of the white LED in accordance with ANSI FL1, measured at the brightest setting. (and ES MODE).

⁷ Luminous flux (lm) or maximum lighting distance with white LED in the setting specified in the table when switching on with a set of fresh alkaline batteries. These are average values that may deviate by +/-15% in accordance with chip and LED.

⁸ Not authorized under the STVZO (not authorized for road use).



www.ledlenser.com

Become a part of the LED LENSER® Community



LED LENSER® 