Light**SKIN**

2023-2024

Integration technology

www.lightskin.co.kr

"Why can't bicycle lights be like car lights?"

The development of NACAROAD started with the question of an automotive lamp engineer. In particular, the headlight of a road bike, which travels at high speeds on roads, must illuminate farther and wider at night without dazzling the driver of oncoming vehicles. NACAROAD applied projection lens technology used in automobile headlights to achieve precise cut-off lines, a 72m irradiation distance, and a visibility of 52° at the level of automotive lights. Additionally, NACAROAD's aerodynamic lens design achieved a drag coefficient of 0.267, maximizing the road bike's performance.

EUROBIKE
WINNER
AWARD 2023

K 2067

NACA ROAD

Bicycle front light with automotive projection lamp technology

designed by
ETENDUE LIGHTING

ETENDUE LIGHTING is a company with the best automotive lens technology. Nacaroad is the essence of their technology. ETENDUE LIGHTING is trying to expand their advanced optical technology to the field of personal mobility.

www.etenduelighting.com

EUROBIKE
WINNER
AWARD 2023

Battery

StVZO ZUGELASSEN

NACAROAD

K 2067

NACAROAD is a battery integrated head lamp with
high performance projection lens according to automotive standards.

designed by
ETENDUE LIGHTING

Features

Incorporating automotive projection lens technology, the NACAROAD enables a very compact design while providing maximum performance. The light, which comes from only one LED, is optimally directed, refracted and distributed very efficiently as a homogeneous carpet of light on the road – scattering losses are thus reduced to a minimum. As a result, NACAROAD shines brighter than products from other manufacturers despite comparatively lower lumen/lux values. A sharp cut-off line prevents the glare of other people in traffic perfectly.

Dimensions	56.7 mm x 41.5mm x 103.6 mm
Weight	163gram without mount

Light unit

Light Module	Etendue lighting Projection Light module
Luminous flux	Max: 520lm/90lx, Min: 185lm/30lx
Power Source	Lithium-polymer battery 3.7V, 2700mAh,
Mode	Max power → Sports mode → Touring mode → City mode
Light Duration (fully charged battery)	Max brightness: 1.5h Min brightness: 7.3h
Charging Time	3h (USB type-C)

ETC

Approval Code	K 2067
Compliant with standard or directive	CE, RoHS, UN3481, StVZO §22a TA Nr.23 (Headlights fot bicycles), IP66
Package Contents	NACA ROAD C-type USB charge cable (100cm) Anti-glare cap
Mount	Go-pro mount compatiable * Mount not included

EUROBIKE
WINNER
AWARD 2023

Battery | Flash

NACAROAD INTERNATIONAL

NACAROAD INTERNATIONAL is a battery integrated head lamp with high performance projection lens according to automotive standards, with blinking modes.

designed by
ETENDUE LIGHTING

Features

For the rest of the world, NADAROAD INTERNATIONAL was realsed . blinking patterns not only extend battery life, they help drivers notice us. The "International Version" that includes two blinking modes – a 400-lumen Day Flash and a 185-lumen Night Flash.

Dimensions	56.7 mm x 41.5mm x 103.6 mm
Weight	163gram without mount

Light unit

Light Module	Etendue lighting Projection Light module
Luminous flux	Max: 520lm/90lx, Min: 185lm/30lx
Power Source	Lithium-polymer battery 3.7V, 2700mAh
Mode	Max power → Sports mode → Touring mode → City mode → Night flash → Day flash
Light Duration (fully charged battery)	Max brightness: 1.5h Min brightness in continuous mode: 7.3h Night flash : 31.7h Day flash : 10h
Charging Time	3h (USB type-C)

ETC

Compliant with standard or directive	CE, RoHS, UN3481
Package Contents	NACA ROAD C-type USB charge cable (100cm) Anti-glare cap
Mount	Go-pro mount compatiable * Mount not included

H1

High performance built-in light handlebar.

The LightSKIN built-in light handlebar has undergone further evolution with the introduction of H1. H1 represents a complete redefinition of optical technology in bicycle lights, offering users an unparalleled experience. Experience the new lens from LightSKIN, achieved through highly precise optic technology.

Features

Handlebar dimensions	D31.8 same as H2 D35.0/W800(new)
Lens hole dimensions	23.6mm x 14mm same as H2

Light unit

Light Modul	LightSKIN H1 lens
Luminous flux	50lx/400lm
Power source	DC6V~48V

LightSKIN H1 lens

40 pcs of lens control the light more precisely

Compliance with the StVZO standards but only 21mm in width

Strong performance with maximum illuminance of 50lx

H2

Headlight for bicycles integrated in the handlebars

K 1721

Battery

StVZO ZUGELASSEN

reddot winner 2020

H2B

K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).
The "LightSKIN H2B" version features an integrated rechargeable battery.
The battery can be charged via a micro-USB port.

Features

Diameter	Center 31.8mm / Grip 22.2mm
Handlebar Widths	620 / 640 / 660 / 680 / 700 (mm)
Bar Type	Flat, Back sweep 9 ° , Up sweep 0 ° , Rise ±5mm
Handlebar color and surface finish	Polished silver / Anodized black
Handlebar material	Aluminum 6061 T6

Light unit

Light Module	LightSKIN H2 Lens
Luminous flux	150 lm
Power Source	Lithium-polymer battery 3.7V, 2000mAh, 8018120 with protection
Light Duration (fully charged battery)	Extra bright: 4h Bright: 6h
Charging Time	5h

ETC

Handlebar test standard	ISO 4210 Mountain
Approval Code	K 1721
Compliant with standard or directive	CE, RoHS, UN3481, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX4
Package Contents	Front light handlebar USB charge cable (200cm)

Dynamo

StVZO ZUGELASSEN

reddot winner 2020

H2D

K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).
In the "LightSKIN H2D" version, the headlight is powered by a dynamo hub.

Features

Diameter	Center 31.8mm / Grip 22.2mm
Handlebar Widths	600 / 620 / 640 / 660 / 680 / 700 (mm)
Bar Type	Back sweep 9 ° , Up sweep 0 ° , Rise ±5mm
Handlebar color and surface finish	Polished silver / Anodized black
Handlebar material	Aluminum 6061 T6

Light unit

Light Module	LightSKIN H2 Lens
Luminous flux	150 lm
Power Source	AC 6V(3W) Bicycle Dynamo
Nominal voltage	AC 6V
Power consumption	2.4w

ETC

Handlebar test standard	ISO 4210-Mountain, city
Approval Code	K 1721
Compliant with standard or directive	CE, RoHS, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX4
Package Contents	Front light handlebar

E-bike

StVZO ZUGELASSEN

reddot winner 2020

H2E

K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).
In the "LightSKIN H2E" version, the light is connected to an external power source via a connection cable, for example to the battery of an e-bike.

Features

Diameter	Center 31.8mm / Grip 22.2mm
Handlebar Widths	600 / 620 / 640 / 660 / 680 / 700 (mm)
Bar Type	Back sweep 9 ° , Up sweep 0 ° , Rise ±5mm
Handlebar color and surface finish	Polished silver / Anodized black
Handlebar material	Aluminum 6061 T6

Light unit

Light Module	LightSKIN H2 Lens
Luminous flux	150 lm
Power Source	On-board battery of the e-bike
Nominal voltage	DC 6V (5V-24V)
Power consumption	1.3w

ETC

Handlebar test standard	ISO 4210 Mountain, EN 15194
Approval Code	K 1721
Compliant with standard or directive	CE, RoHS, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX4
Package Contents	Front light handlebar

E-bike

StVZO ZUGELASSEN

reddot winner 2020

H2E WIEN

K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).
In the "LightSKIN H2E" version, the light is connected to an external power source via a connection cable, for example to the battery of an e-bike.

Features

Diameter	Center 31.8mm / Grip 22.2mm
Handlebar Widths	640 / 680 (mm)
Bar Type	Back sweep 15 ° , Up sweep 0 ° , Rise 20mm
Handlebar color	Polished silver / Anodized black
and surface finish	Aluminum 6061 T6
Handlebar material	

Light unit

Light Module	LightSKIN H2 Lens
Luminous flux	150 lm
Power Source	On-board battery of the e-bike
Nominal voltage	DC 6V (5V-24V)
Power consumption	1.3w

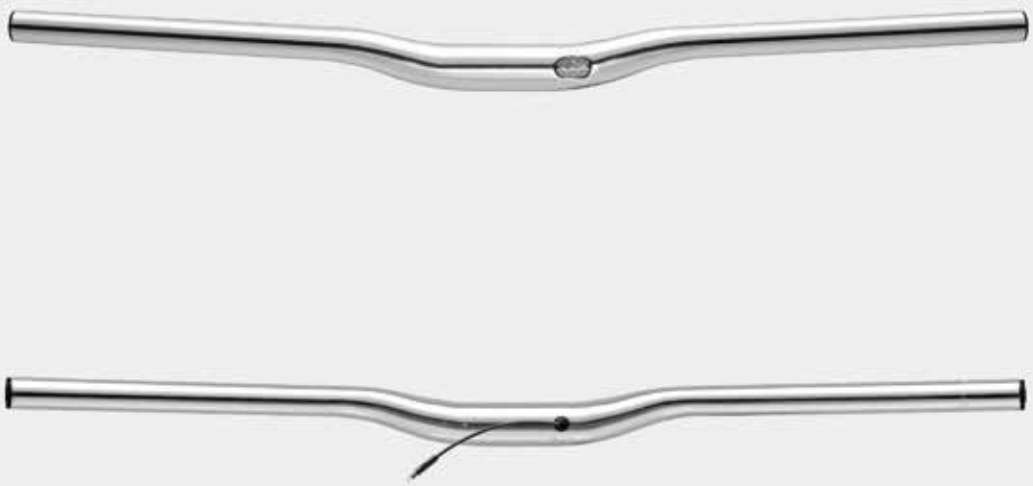
ETC

Handlebar test standard	EN 15194
Approval Code	K 1721
Compliant with standard or directive	CE, RoHS, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX4
Package Contents	Front light handlebar

Dynamo

StVZO ZUGELASSEN

reddot winner 2020



H2D WIEN

K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).
In the "LightSKIN H2D" version, the headlight is powered by a dynamo hub.

Features

Diameter	Center 31.8mm / Grip 22.2mm
Handlebar Widths	640 / 680 (mm)
Bar Type	Back sweep 15 ° , Up sweep 0 ° , Rise 20mm
Handlebar color and surface finish	Polished silver / Anodized black
Handlebar material	Aluminum 6061 T6

Light unit

Light Module	LightSKIN H2 Lens
Luminous flux	150 lm
Power Source	AC 6V(3W) Bicycle Dynamo
Nominal voltage	AC 6V
Power consumption	2.4w

ETC

Handlebar test standard	ISO 4210-Mountain, city
Approval Code	K 1721
Compliant with standard or directive	CE, RoHS, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX4
Package Contents	Front light handlebar

E-bike

StVZO ZUGELASSEN

reddot winner 2020

H2E CITY

K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).
In the "LightSKIN H2E" version, the light is connected to an external power source via a connection cable, for example to the battery of an e-bike.

Features

Diameter	Center 31.8mm / Grip 22.2mm
Handlebar Widths	640 (mm)
Bar Type	Back sweep 38 ° , Up sweep 0 ° , Rise 40mm
Handlebar color and surface finish	Polished silver / Anodized black
Handlebar material	Aluminum 6061 T6

Light unit

Light Module	LightSKIN H2 Lens
Luminous flux	150 lm
Power Source	On-board battery of the e-bike
Nominal voltage	DC 6V (5V-24V)
Power consumption	1.3w

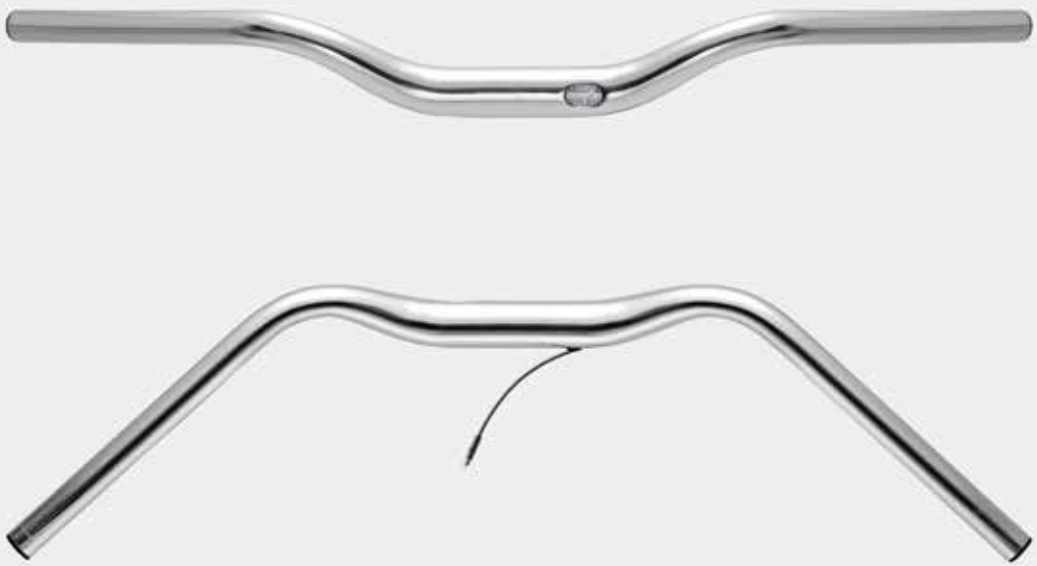
ETC

Handlebar test standard	EN 15194
Approval Code	K 1721
Compliant with standard or directive	CE, RoHS, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX4
Package Contents	Front light handlebar

Dynamo

StVZO ZUGELASSEN

reddot winner 2020



H2D CITY

K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).
In the "LightSKIN H2D" version, the headlight is powered by a dynamo hub.

Features

Diameter	Center 31.8mm / Grip 22.2mm
Handlebar Widths	640 (mm)
Bar Type	Back sweep 38 ° , Up sweep 0 ° , Rise 40mm
Handlebar color and surface finish	Polished silver / Anodized black
Handlebar material	Aluminum 6061 T6

Light unit

Light Module	LightSKIN H2 Lens
Luminous flux	150 lm
Power Source	AC 6V(3W) Bicycle Dynamo
Nominal voltage	AC 6V
Power consumption	2.4w

ETC

Handlebar test standard	ISO 4210-Mountain, city
Approval Code	K 1721
Compliant with standard or directive	CE, RoHS, UN3481, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX4
Package Contents	Front light handlebar

Dynamo

StVZO ZUGELASSEN

reddot winner 2020

H2E MOON

K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).
In the "LightSKIN H2E" version, the light is connected to an external power source via a connection cable, for example to the battery of an e-bike.

Features

Diameter	Center 31.8mm / Grip 22.2mm
Handlebar Widths	580 / 600 / 620 / 640 / 660 (mm)
Bar Type	Back sweep 18 ° , Up sweep 0 ° , Rise 0mm
Handlebar color and surface finish	Polished silver / Anodized black
Handlebar material	Aluminum 6061 T6

Light unit

Light Module	LightSKIN H2 Lens
Luminous flux	150 lm
Power Source	On-board battery of the e-bike
Nominal voltage	DC 6V (5V-24V)
Power consumption	1.3w

ETC

Handlebar test standard	EN 15194
Approval Code	K 1721
Compliant with standard or directive	CE, RoHS, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX4
Package Contents	Front light handlebar

Dynamo

StVZO ZUGELASSEN

reddot winner 2020

H2D MOON

K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).
In the "LightSKIN H2D" version, the headlight is powered by a dynamo hub.

Features

Diameter	Center 31.8mm / Grip 22.2mm
Handlebar Widths	580 / 600 / 620 / 640 / 660 (mm)
Bar Type	Back sweep 18 ° , Up sweep 0 ° , Rise 0mm
Handlebar color and surface finish	Polished silver / Anodized black
Handlebar material	Aluminum 6061 T6

Light unit

Light Module	LightSKIN H2 Lens
Luminous flux	150 lm
Power Source	AC 6V(3W) Bicycle Dynamo
Nominal voltage	AC 6V
Power consumption	2.4w

ETC

Handlebar test standard	ISO 4210-Mountain, city
Approval Code	K 1721
Compliant with standard or directive	CE, RoHS, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX4
Package Contents	Front light handlebar

SF

Built-in fiber optic light seatpost

We sometimes have ingenious imaginations, but it's not easy to turn them into reality. LightSKIN has a lot of know-how to embed a light into a seatpost, and this time, it proposes a completely new method. LightSKIN has developed a technology that utilizes fiber optic cables to transmit internal light to the outside. To achieve this, they designed a unique cross-sectional seatpost that connects the interior and exterior, allowing for secure fixation of the fiber optic cables on the seatpost. The LightSkIN SF is compatible with seatposts of various sizes and materials. Also, it is a good solution for incorporating lights into aero-shaped carbon seatposts.

S311

Rearlight for bicycles integrated in the seatposts

K 1595

Battery

StVZO ZUGELASSEN

reddot winner 2020

S311

K 1595

The light of S311 is powered by a built in, non-removable, rechargeable battery.

Features

Patented seatpost with an integrated seat rail clamp. The seatpost tube features 5 holes in which the LEDs are enclosed. The USB 2.0 charging port is located in the lower section of the seat rail clamp. The port is accessible from the outside and can be closed using a transparent silicone cover.

Diameter	25.4 / 27.2 / 30.9 / 31.6 (mm)
Length	350mm / 400mm (30.9, 31.6mm)
color surface finish	Polished Silver / Matt Black
Seatpost Type	2 bolt clamp, offset 9mm, mechanical stop
Seapost material	Aluminum 6061 T6

Light unit

Light Module	2 wide angle red LEDs, 3 high brightness red LEDs
Brightness	12cd
Power Source	Lithium-polymer battery 3.7V, 800mAh, 801473 with protection
Light Duration (fully charged battery)	5 LED: 10 hours 3 LED: 15 hours
Charging Time	2.5h

ETC

K-number	K 1595
Seatpost test standard	ISO 4210 City, Mountain
Compliant with standard or directive	CE, RoHS, UN3481, StVZO §22a TA Nr.14b (Rear lights fot bicycles), IPX5
Package Contents	rear light seatpost USB charge cable (200cm)

E-bike

StVZO ZUGELASSEN

reddot winner 2020

S311E

K 1595

In the S311E version, the light is powered via a cable connected to an external power source.
For example, to the battery of a bicycle with electrical pedal assistance.

Features

Patented seatpost with an integrated seat rail clamp. The seatpost tube features 5 holes in which the LEDs are enclosed. A cable with a connector extends out of the lower end of the seatpost tube for connection to the electrical system of the e-bike.

Diameter	27.2 / 30.9 / 31.6 (mm)
Length	D27.2mm(350mm) / D31.6mm(350, 400mm)
color surface finish	Polished Silver / Matt Black
Seatpost Type	2 bolt clamp, offset 9mm, mechanical stop
Seapost material	Aluminum 6061 T6

Light unit

Light Module	2 wide angle red LEDs, 3 high brightness red LEDs
Brightness	12cd
Power Source	The on-board battery of the e-bike
Nominal voltage	DC 6V (6V-12V)
Power consumption	0.3w

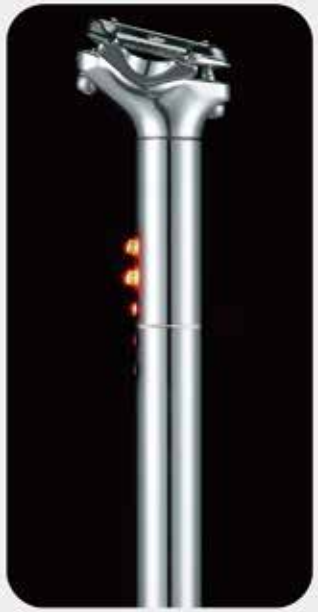
ETC

K-number	K 1595
Seatpost test standard	EN 15194
Compliant with standard or directive	CE, RoHS, StVZO §22a TA Nr.14b (Rear lights fot bicycles), IPX5
Package Contents	rear light seatpost

Dynamo

StVZO ZUGELASSEN

reddot winner 2020



S311D

K 1595

In the S311D version, the light is powered by a hub dynamo.

Features

Patented seatpost with an integrated seat rail clamp. The seatpost tube features 5 holes in which the LEDs are enclosed. A cable with two open ends extends out of the lower end of the seatpost tube for connection to the bicycle dynamo.

Diameter	27.2 / 30.9 / 31.6 (mm)
Length	D27.2mm(350mm) / D31.6mm(350, 400mm)
color surface finish	Polished Silver / Matt Black
Seatpost Type	2 bolt clamp, offset 9mm, mechanical stop
Seapost material	Aluminum 6061 T6

Light unit

Light Module	2 wide angle red LEDs, 3 high brightness red LEDs
Brightness	12cd
Power Source	AC 6V(3W) Bicycle Dynamo
Nominal voltage	AC 6V
Power consumption	0.5w
Surge Protection	A zener diode prevents damage to the electonics or the LEDs from voltage surges.

ETC

K-number	K 1595
Seatpost test standard	ISO City
Compliant with standard or directive	CE, RoHS, StVZO §22a TA Nr.14b (Rear lights fot bicycles), IPX5
Package Contents	rear light seatpost

Battery

reddot design award
winner 2010

S341

The light of S341 is powered by a built in, non-removable, rechargeable battery.

Features

Patented seatpost with an integrated seat rail clamp. The seatpost tube features 5 holes in which the LEDs are enclosed. The USB 2.0 charging port is located in the lower section of the seat rail clamp. The port is accessible from the outside and can be closed using a transparent silicone cover.

Diameter	27.2 / 30.9 / 31.6 (mm)
Length	350mm(D27.2mm) / 400mm(D30.9, D31.6mm)
color surface finish	Polished Silver / Matt Black
Seatpost Type	2 bolt clamp, offset 9mm
Seapost material	Aluminum 6061 T6

Light unit

Lens Type	Non Protruding
Light Module	5 high brightness red LEDs, Non protruding LED Lens
Brightness	15cd
Power Source	Lithium-polymer battery 3.7V, 800mAh, 801473 with protection
Light Duration (fully charged battery)	5 LED/contiuous: 10 hours 3 LED/sparking: 100 hours
Charging Time	2.5h

ETC

Seatpost test standard	ISO 4210 City(27.2), Mountain(30.9, 31.6)
Compliant with standard or directive	CE, RoHS, UN3481, IPX5
Package Contents	rear light seatpost USB charge cable (200cm)

E-bike

reddot design award
winner 2010

S341E

In the S341E version, the light is powered via a cable connected to an external power source.
For example, to the battery of a bicycle with electrical pedal assistance.

Features

Patented seatpost with an integrated seat rail clamp. The seatpost tube features 5 holes in which the LEDs are enclosed. A cable with a connector extends out of the lower end of the seatpost tube for connection to the electrical system of the e-bike.

Diameter	27.2 / 30.9 / 31.6 (mm)
Length	350mm(D27.2mm) / 400mm(D30.9, D31.6mm)
color surface finish	Polished Silver / Matt Black
Seatpost Type	2 bolt clamp, offset 9mm
Seapost material	Aluminum 6061 T6

Light unit

Lens Type	Non Protruding
Light Module	5 high brightness red LEDs, Non protruding LED Lens
Brightness	15cd
Power Source	The on-board battery of the e-bike.
Nominal voltage	DC 6V (5V -12V)
Power consumption	0.3w

ETC

Seatpost test standard	EN 15194
Compliant with standard or directive	CE, RoHS, IPX5
Package Contents	Rear light seatpost

U1

Neo Ultra Light

Neo Ultra Light is a high-powered variant of the Ultramini light. Although slightly larger in size, it delivers over three times the power. For bicycle manufacturers and consumers seeking a combination of compactness and superior illumination, the Neo Ultra Light stands out as the obvious choice.

Features

Dimension	W36mm x H16mm x L52mm

Light unit

Light Modul	LightSKIN H1 lens
Luminous flux	50lx/400lm
Power source	DC6V~48V

LightSKIN H1 lens

40 pcs of lens control the light more precisely

Compliance with the StVZO standards but only 21mm in width

Strong performance with maximum illuminance of 50lx

U2

The smallest bike front light approved StVZO

K 1817

E-bike

StVZO ZUGELASSEN

U2E

K 1817

The smallest bike front light approved StVZO. In the "LightSKIN U2E" version, the light is powered via a cable connected to an external power source.

Features

Dimensions	34.7mm ×19mm ×28mm
Weight	20.5gram
Color and finish	Polished silver / Matt black
Housing material	Aluminum 6061 T6
Bracket	Dual position bracket

Light unit

Power source	On-board battery of the e-bike.
Brightness	150 lm
Voltage	DC 6V (5V - 24V)
Power consumption	1.3 W

Standard and approval

Approval Code	K 1817
Standard or directive	CE, RoHS StVZO §22a TA Nr.23(Headlights for bicycles) IPX5

dynamo

StVZO ZUGELASSEN

U2D

K 1817

The smallest bike front light approved StVZO. In the "LightSKIN U2D" version, the headlight is powered by a dynamo hub

Features

Dimensions	39mm ×19mm ×28mm
Weight	22gram
Color and finish	Polished silver / Matt black
Housing material	Aluminum 6061 T6
Bracket	Dual position bracket

Light unit

Power source	AC 6V(3W) Bicycle Dynamo
Brightness	150 lm
Norminal voltage	AC 6V
Power consumption	2.3 W

Standard and approval

Approval Code	K 1817
Standard or directive	CE, RoHS StVZO §22a TA Nr.23(Headlights for bicycles) IPX5

U8

High-performance bike front light for everyone.

LightSKIN U8 is a bike front light of high and low beam and 5,000mAh battery light and controlled by wireless switch. U8 will contribute to the safe riding of cyclists through its excellent performance and high user convenience.

Features

Dimension	31mm x 31mm x 118mm
Weight	190gram

* weight and dimensions may vary depending on detailed specifications

Light unit

Light Modul	LightSKIN Low/High beam dual optic lenses
Low beam	400lm
High beam	1,000lm
Power Source	Lithium-Ion 21700/5,000mAh
Light duration	5h(Low beam), 2.5(High beam)
Charging time	4h

Functions

Dual position mount

Vibration detection

USB-C Charging/Discharging

Battery level indication by blue, green, red

Wireless switch

400hz wireless connection

3 buttons (low beam, high beam, super beam)

*** some countries may not be available.**

Wireless switch

Low beam

High beam

U12T

Innovative E-bike monitor integrated front light.

U12T ensures safe riding during nighttime with its low/high beam functionality and the wireless connection between the E-bike and the monitor elevates the E-bike's capabilities to a whole new level. Additionally, the built-in map navigation feature enhances convenience for cyclists, allowing for a more enjoyable riding experience.

INTERGRATED FRONT LIGHT

This integrated front light features a powerful LED lighting system that ensures excellent visibility during nighttime or low-light riding conditions. The brightness and beam pattern are optimized to illuminate the rider's path effectively while also increasing their visibility to other road users.

E-BIKE MONITOR SYSTEM

What sets this product apart is its integrated monitor, which displays various real-time data related to the e-bike's performance and ride. The monitor provides information such as current speed, battery level, distance traveled, pedal assist level, and more. This allows riders to have immediate access to crucial information without needing to install a separate monitor or check their smartphone.

Power

E-bike	DC6~48V
Dynamo	AC6V/3W

Front Light

Low beam	400lm
High beam	1,000lm

E-bike monitoring

Communication protocols	Wireless: Bluetooth 4.0, Ant+ Wired: UART, LIN, CAN, etc
Functions	Speed, Battery level, PAS level
Connectable E-bike system	Mahle motor available Shimano motor will be available soon

Riding monitoring

Connectable drivetrain systems	Shimano Di2, SRAM AXS
Functions	Distance, Altitude, Cadence, Heart rate, Power, Electric shifters , Riding record management
Map navigations	OpenStreetMap, offline map download

Smart services

Phone call, Text messsage, Whatsapp, Wechat, Line notifications in most languages.

Automatic localizations in 10 languages

USB-C charging output

E-bike monitor designed by

trimm

Trimm is a company with excellent technology in the field of cycling computers. LightSKIN U12T was created through collaboration with Trimm. Trimm plans to extend their technology to e-bikes.
The beginning is the LightSKIN U12T.

https://trimm.bike

ZR

Curved fender reflector integrated rear light

The LightSKIN ZR is a curved reflector designed for bike fenders that integrates a rear light. The advantage of its curved design is that it perfectly matches the curved surface of the bicycle fender, greatly enhancing the bicycle's overall design. ZR almost does not protrude and adheres closely to the fender, so it is less likely to break, is safe and can be used for a long time. Existing reflectors have a flat shape to maximize reflection efficiency, but LightSKIN has created a rearlight integrated reflector with a curvature of 1.62/m through precise processing and clever optic design. The ZR has passed StVZO regulations for both reflectors and rear lights.

E-bike
Dynamo

StVZO
ZUGELASSEN

ZRE / ZRD

K 2135
K 2136

ZRE and ZRD are rear light integrated reflector for bike fender.

In the ZRE version, the light is powered via a cable connected to an external power source.
In the ZRD version, the light is powered by a hub dynamo.

Features

Dimension	128.2mm x 22.6 mm x 14.6mm
Material	Refelctor=PMMA
Weight	40gram

Light unit

ZRE	**Light Modul**	2 high bightness red leds
	Brightness	12cd
	Power Source	DC 5~24V
	Power consumption	0.4W
ZRD	**Light Modul**	2 high bightness red leds
	Brightness	12cd
	Power Source	AC6V
	Power consumption	0.3W

ETC

Approval Code	K 2135(Rearlight), K 2136(Reflector)
Compliant with standard or directive	CE, RoHS, UN3481, StVZO §22a TA Nr.14b(Rearlight) StVZO §22a TA Nr.18(Reflector) IP66
Contents	Rear light integrated reflector for bike fender * fender not included

LightSKIN

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