



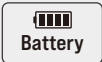
*Light***SKIN**

2024-2025

Integration technology

[www.lightskin.co.kr](http://www.lightskin.co.kr)





## U8-433plus ●

U8 is Lightskin's new product and is a smart headlamp that uses dual cut-off lens technology to provide high and low beams optimized for various environments. This product contains all the necessary functions for consumers, such as a 5,000mAh high-capacity battery, C type charging method, charging function while in use, power bank function, and pairing function using a wireless controller.

### ⚡ Features

<b>Dimensions</b>	31mm x 31mm x 118 mm
<b>Weight</b>	183gram without mount

### 💡 Light unit

<b>Light Module</b>	LightSKIN Low/High beam dual optic lenses
<b>Power Source</b>	Lithium-Ion 21700/5,000mAh
<b>Mode</b>	Low beam : Strong → Normal → Power saving → Low beam Flash(Night)
	High beam : Strong → Normal → Daylight Flash(Daylight)
<b>Light Duration</b>	8.5h(Low beam), 4h(High beam)
<b>Charging Time</b>	4h (USB type-C)

### 📝 ETC

<b>Compliant with standard or directive</b>	CE, RoHS, UN3481 (Headlights for bicycles), IPX6
<b>Package contents</b>	U8 Handlebar mount Bracket (For GoPro, Garmin) USB A to C cable, USB A to C gender Allen wrench
<b>Wireless controller</b>	433Hz 3 buttons * Not available in some countries.

Lightskin is always there when you need light.



# 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.

E-bike

StVZO  
ZUGELASSEN



## U1E-1L / U1E-1L-S (StVZO) ●

U1E-1L is a high-performance version of ultramini light.

It shares a bracket with U2 and can be controlled in various ways, such as UART communication and internal/external switches.

### ⚙️ Features

<b>Dimensions</b>	36mm ×16mm ×52mm
<b>Weight</b>	43gram
<b>Color and finish</b>	Matt black
<b>Housing material</b>	Aluminum 6061 T6
<b>Bracket</b>	Dual position bracket

### 💡 Light unit

<b>Light Modul</b>	LightSKIN V1 lens, 1 high-brightness LED
<b>Power source</b>	On-board battery of the e-bike or other devices
<b>Brightness</b>	400 lm
<b>Voltage</b>	DC 12V (5V - 18V)
<b>Power consumption</b>	5 W

### ⚙️ Functions

<b>Wired control</b>	It can be turned on/off from other devices via UART communication
<b>Control switch</b>	Internal switch, External switch
<b>Protection</b>	Overheating protection sensor Reverse polarity protection
<b>Modes</b>	Low beam(Max), Low beam

### 📄 ETC

<b>Approval Code</b>	In progress
<b>Standard or directive</b>	CE, RoHS StVZO §22a TA Nr.23(Headlights for bicycles) IPX5



E-bike

Flash

3LEDs



## U1E-3L ●

The U1E-3L enhances visibility in low-light environments with its trio of powerful LEDs, ensuring safer riding conditions.

### ⚙️ Features

<b>Dimensions</b>	36mm ×16mm ×52mm
<b>Weight</b>	43gram
<b>Color and finish</b>	Matt black
<b>Housing material</b>	Aluminum 6061 T6
<b>Bracket</b>	Dual position bracket

### 💡 Light unit

<b>Light Modul</b>	LightSKIN V1 lens, 3 high-brightness LEDs
<b>Power source</b>	On-board battery of the e-bike or other devices
<b>Brightness</b>	800 lm
<b>Voltage</b>	DC 12V (5V - 18V)
<b>Power consumption</b>	10 W

### ⚙️ Functions

<b>Wired control</b>	It can be turned on/off from other devices via UART communication
<b>Control switch</b>	Internal switch, External switch
<b>Protection</b>	Overheating protection sensor Reverse polarity protection
<b>Modes</b>	Super brightness mode, Low beam(Max), Low beam, Flash

### 📄 ETC

<b>Approval Code</b>	In progress
<b>Standard or directive</b>	CE, RoHS StVZO §22a TA Nr.23(Headlights for bicycles) IPX5

U8

U1 NEW

N

H1

H2

S

U2

Z

SF

# NACAROAD

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.

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



WINNER

AWARD 2023

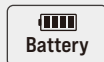
designed by



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.





# NACAROAD ●

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

~~~~~ K 2067



## ⚙️ 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.

|                   |                             |
|-------------------|-----------------------------|
| <b>Dimensions</b> | 56.7 mm x 41.5mm x 103.6 mm |
| <b>Weight</b>     | 163gram without mount       |

## 💡 Light unit

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

## 📋 ETC

|                                                 |                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------|
| <b>Approval Code</b>                            | K 2067                                                                   |
| <b>Compliant with<br/>standard or directive</b> | CE, RoHS, UN3481, StVZO §22a TA Nr.23<br>(Headlights for bicycles), IP66 |
| <b>Package Contents</b>                         | NACAROAD<br>C-type USB charge cable (100cm)<br>Anti-glare cap            |
| <b>Mount</b>                                    | Go-pro mount compatible<br>* 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.

E-bike

StVZO  
ZUGELASSEN



Features

D31.8 / W700

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



Features

D35.0 / W800

|                                           |                                       |
|-------------------------------------------|---------------------------------------|
| <b>Diameter</b>                           | Center 35.0mm / Grip 22.2mm           |
| <b>Handlebar Widths</b>                   | 700 / 800 (mm)                        |
| <b>Bar Type</b>                           | Back sweep 9°, Up sweep 0°, Rise ±5mm |
| <b>Handlebar color and surface finish</b> | Anodized black / Polished silver      |
| <b>Handlebar material</b>                 | Aluminum 6061 T6                      |

## H1E FLAT



Light unit

H1E is a high-performance version of H2E. H1 is almost three times brighter than H2 and offers better waterproof performance through an independent lighting module.

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| <b>Light Module</b>      | LightSKIN V1 lens, 1 high-brightness LED        |
| <b>Luminous flux</b>     | 400 lm                                          |
| <b>Power Source</b>      | On-board battery of the e-bike or other devices |
| <b>Nominal voltage</b>   | DC 12V (6V-24V)                                 |
| <b>Power consumption</b> | 5 W                                             |



ETC

|                                             |                                                               |
|---------------------------------------------|---------------------------------------------------------------|
| <b>Handlebar test standard</b>              | EN17404, ISO 4210-Mountain, City                              |
| <b>Approval Code</b>                        | In progress                                                   |
| <b>Compliant with standard or directive</b> | CE, RoHS, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX5 |
| <b>Package Contents</b>                     | Front light handlebar                                         |

U8

U1

N

H1 NEW

H2

S

U2

Z

SF

E-bike

StVZO  
ZUGELASSEN



## H1E DROP ●

To pass the ISO-R, The H1E Dropbar has a light hole in the center and its shape is symmetrical. The same high performance light module as the H1E Flat bar is applied to the H1E Dropbar. A handlebar stem that does not cover the light hole in the center is required.

### ⚙️ Features

|                                           |                                            |
|-------------------------------------------|--------------------------------------------|
| <b>Diameter</b>                           | Center 31.8mm                              |
| <b>Handlebar Widths</b>                   | 420 / 440 (mm)                             |
| <b>Bar Type</b>                           | Reach 80mm, Out sweep 3 ° 16 °, Drop 121mm |
| <b>Handlebar color and surface finish</b> | Anodized black                             |
| <b>Handlebar material</b>                 | Aluminum 6061 T6                           |

### 💡 Light unit

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| <b>Light Module</b>      | LightSKIN V1 lens, 1 high-brightness LED        |
| <b>Luminous flux</b>     | 400 lm                                          |
| <b>Power Source</b>      | On-board battery of the e-bike or other devices |
| <b>Nominal voltage</b>   | DC 12V (6V-24V)                                 |
| <b>Power consumption</b> | 5w                                              |

### 📋 ETC

|                                             |                                                                       |
|---------------------------------------------|-----------------------------------------------------------------------|
| <b>Handlebar test standard</b>              | ISO-R                                                                 |
| <b>Approval Code</b>                        | In progress                                                           |
| <b>Compliant with standard or directive</b> | CE, RoHS, UN3481, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX4 |
| <b>Package Contents</b>                     | Front light handlebar                                                 |



# H2

Headlight for bicycles integrated in the handlebars

~ K 1721

U8

U1

N

H1

H2

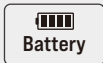
S

U2

Z

SF





## H2B FLAT ● ●

~~~~ 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

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

## 💡 Light unit

|   |  |
|---|--|
| <b>Light Module</b>                           | LightSKIN V2 Lens  |
| <b>Luminous flux</b>                          | 150 lm   |
| <b>Power Source</b>                           | Lithium-polymer battery 3.7V, 2000mAh, 8018120 with protection |
| <b>Light Duration (fully charged battery)</b> | Extra bright: 4h<br>Bright: 6h                                 |
| <b>Charging Time</b>                          | 5h   |

## 📋 ETC

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



Light unit

E-bike

|                          |                                |
|--------------------------|--------------------------------|
| <b>Light Module</b>      | LightSKIN V2 Lens              |
| <b>Luminous flux</b>     | 150 lm                         |
| <b>Power Source</b>      | On-board battery of the e-bike |
| <b>Nominal voltage</b>   | DC 6V (5V-24V)                 |
| <b>Power consumption</b> | 1.3w                           |



Light unit

Dynamo

|                          |                          |
|--------------------------|--------------------------|
| <b>Light Module</b>      | LightSKIN V2 Lens        |
| <b>Luminous flux</b>     | 150 lm                   |
| <b>Power Source</b>      | AC 6V(3W) Bicycle Dynamo |
| <b>Nominal voltage</b>   | AC 6V                    |
| <b>Power consumption</b> | 2.4w                     |

## H2E / H2D FLAT ● ●

⚙️ Features

🌊 K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).

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



ETC

|   |  |
|---|--|
| <b>Handlebar test standard</b>              | EN15194, EN17404<br>ISO 4210-Mountain, city                      |
| <b>Approval Code</b>                        | K 1721   |
| <b>Compliant with standard or directive</b> | CE, RoHS, StVZO §22a TA Nr.23<br>(Headlights for bicycles), IPX5 |
| <b>Package Contents</b>                     | Front light handlebar  |



Light unit

E-bike

|                          |                                |
|--------------------------|--------------------------------|
| <b>Light Module</b>      | LightSKIN V2 Lens              |
| <b>Luminous flux</b>     | 150 lm                         |
| <b>Power Source</b>      | On-board battery of the e-bike |
| <b>Nominal voltage</b>   | DC 6V (5V-24V)                 |
| <b>Power consumption</b> | 1.3w                           |



Light unit

Dynamo

|                          |                          |
|--------------------------|--------------------------|
| <b>Light Module</b>      | LightSKIN V2 Lens        |
| <b>Luminous flux</b>     | 150 lm                   |
| <b>Power Source</b>      | AC 6V(3W) Bicycle Dynamo |
| <b>Nominal voltage</b>   | AC 6V                    |
| <b>Power consumption</b> | 2.4w                     |

## H2E / H2D WIEN ● ●

⚙️ Features

### ⚡ K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).

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



ETC

|   |   |
|---|---|
| <b>Handlebar test standard</b>              | EN15194, ISO 4210-Mountain, city                              |
| <b>Approval Code</b>                        | K 1721  |
| <b>Compliant with standard or directive</b> | CE, RoHS, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX5 |
| <b>Package Contents</b>                     | Front light handlebar   |



Light unit

E-bike

|                          |                                |
|--------------------------|--------------------------------|
| <b>Light Module</b>      | LightSKIN V2 Lens              |
| <b>Luminous flux</b>     | 150 lm                         |
| <b>Power Source</b>      | On-board battery of the e-bike |
| <b>Nominal voltage</b>   | DC 6V (5V-24V)                 |
| <b>Power consumption</b> | 1.3w                           |



Light unit

Dynamo

|                          |                          |
|--------------------------|--------------------------|
| <b>Light Module</b>      | LightSKIN V2 Lens        |
| <b>Luminous flux</b>     | 150 lm                   |
| <b>Power Source</b>      | AC 6V(3W) Bicycle Dynamo |
| <b>Nominal voltage</b>   | AC 6V                    |
| <b>Power consumption</b> | 2.4w                     |

## H2E / H2D CITY



Features

### ~ K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).

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



ETC

|   |   |
|---|---|
| <b>Handlebar test standard</b>              | EN15194, ISO 4210-Mountain, city                              |
| <b>Approval Code</b>                        | K 1721  |
| <b>Compliant with standard or directive</b> | CE, RoHS, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX5 |
| <b>Package Contents</b>                     | Front light handlebar   |



Light unit

E-bike

|                          |                                |
|--------------------------|--------------------------------|
| <b>Light Module</b>      | LightSKIN V2 Lens              |
| <b>Luminous flux</b>     | 150 lm                         |
| <b>Power Source</b>      | On-board battery of the e-bike |
| <b>Nominal voltage</b>   | DC 6V (5V-24V)                 |
| <b>Power consumption</b> | 1.3w                           |



Light unit

Dynamo

|                          |                          |
|--------------------------|--------------------------|
| <b>Light Module</b>      | LightSKIN V2 Lens        |
| <b>Luminous flux</b>     | 150 lm                   |
| <b>Power Source</b>      | AC 6V(3W) Bicycle Dynamo |
| <b>Nominal voltage</b>   | AC 6V                    |
| <b>Power consumption</b> | 2.4w                     |

## H2E / H2D MOON ● ●

⚙️ Features

🌊 K 1721

Headlight for bicycles integrated in the handlebars (with 1 LED).

|   |                                       |
|---|---------------------------------------|
| <b>Diameter</b>                           | Center 31.8mm / Grip 22.2mm           |
| <b>Handlebar Widths</b>                   | 620 (mm)                              |
| <b>Bar Type</b>                           | Back sweep 18°, Up sweep 0°, Rise 0mm |
| <b>Handlebar color and surface finish</b> | Anodized black / Polished silver      |
| <b>Handlebar material</b>                 | Aluminum 6061 T6                      |



ETC

|   |   |
|---|---|
| <b>Handlebar test standard</b>              | ISO 4210-Mountain, city                                       |
| <b>Approval Code</b>                        | K 1721  |
| <b>Compliant with standard or directive</b> | CE, RoHS, StVZO §22a TA Nr.23 (Headlights for bicycles), IPX5 |
| <b>Package Contents</b>                     | Front light handlebar   |



# S311

Rearlight for bicycles integrated in the seatposts

~ K 1595

U8

U1

N

H1

H2

SEAT POST

U2

Z

SF



## S311 ● ●

~~~~~ K 1595

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.

### ⚙️ Features

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

### 💡 Light unit

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

### 📋 ETC

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

E-bike

StVZO  
ZUGELASSEN



## S311E ● ●

~~~~ K 1595

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.

### ⚙️ Features

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

### 💡 Light unit

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

### 📋 ETC

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

U8

U1

N

H1

H2

SEAT POST

U2

Z

SF

Dynamo

StVZO  
ZUGELASSEN

reddot  
winner 2020



# S311D ● ●

~~~~ K 1595

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.

## ⚙️ Features

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

## 💡 Light unit

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

## 📋 ETC

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



reddot design award  
winner 2010



## S341 ● ●

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.

### ⚙️ Features

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

### 💡 Light unit

|                     |                                                                 |
|---------------------|-----------------------------------------------------------------|
| <b>Lens Type</b>    | Non Protruding                                                  |
| <b>Light Module</b> | 5 high brightness red LEDs,<br>Non protruding LED Lens          |
| <b>Brightness</b>   | 15cd                                                            |
| <b>Power Source</b> | Lithium-polymer battery 3.7V, 800mAh,<br>801473 with protection |
| <b>Mode Change</b>  | On → Chase → flashing → pulse<br>→ continuous → Off             |

|                                                         |       |       |          |       |            |
|---------------------------------------------------------|-------|-------|----------|-------|------------|
| <b>Light Duration<br/>(fully charged battery)</b>       |       | Chase | flashing | pulse | continuous |
|                                                         | 5LEDs | 20h   | 20h      | 50h   | 10h        |
|                                                         | 3LEDs | 30h   | 30h      | 100h  | 15h        |
| 5 LED/continuous: 10 hours<br>3 LED/sparking: 100 hours |       |       |          |       |            |

**Charging Time** 2.5h

### 📋 ETC

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

U8

U1

N

H1

H2

SEAT POST

U2

Z

SF



E-bike



reddot design award  
winner 2010



## S341E ● ●

5 Flush LED make bike look neat and simple, 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.

### ⚙️ Features

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

### 💡 Light unit

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

### 📋 ETC

|                                             |                     |
|---------------------------------------------|---------------------|
| <b>Seatpost test standard</b>               | EN 15194            |
| <b>Compliant with standard or directive</b> | CE, RoHS, IPX5      |
| <b>Package Contents</b>                     | Rear light seatpost |

# U2

The smallest bike front light approved StVZO

~~~~ K 1817

U8

U1

N

H1

H2

S

U2

Z

SF

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

|                         |                              |
|-------------------------|------------------------------|
| <b>Dimensions</b>       | 34.7mm x19mm x28mm           |
| <b>Weight</b>           | 20.5gram                     |
| <b>Color and finish</b> | Polished silver / Matt black |
| <b>Housing material</b> | Aluminum 6061 T6             |
| <b>Bracket</b>          | Dual position bracket        |

## 💡 Light unit

|                          |                                 |
|--------------------------|---------------------------------|
| <b>Light Module</b>      | LightSKIN V2 Lens               |
| <b>Power source</b>      | On-board battery of the e-bike. |
| <b>Brightness</b>        | 150 lm                          |
| <b>Voltage</b>           | DC 6V (5V - 12V)                |
| <b>Power consumption</b> | 1.3 W                           |

## 📄 ETC

|                              |                                                                  |
|------------------------------|------------------------------------------------------------------|
| <b>Approval Code</b>         | K 1817                                                           |
| <b>Standard or directive</b> | CE, RoHS<br>StVZO §22a TA Nr.23(Headlights for bicycles)<br>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

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

## 💡 Light unit

|                          |                          |
|--------------------------|--------------------------|
| <b>Light Module</b>      | LightSKIN V2 Lens        |
| <b>Power source</b>      | AC 6V(3W) Bicycle Dynamo |
| <b>Brightness</b>        | 150 lm                   |
| <b>Normal voltage</b>    | AC 6V                    |
| <b>Power consumption</b> | 2.3 W                    |

## 📋 ETC

|                              |  |
|------------------------------|--|
| <b>Approval Code</b>         | K 1817   |
| <b>Standard or directive</b> | CE, RoHS<br>StVZO §22a TA Nr.23(Headlights for bicycles)<br>IPX5 |

U8

U1

N

H1

H2

S

U2

Z

SF



# 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

|                  |                            |
|------------------|----------------------------|
| <b>Dimension</b> | 128.2mm x 22.6 mm x 14.6mm |
| <b>Material</b>  | Refelctor=PMMA             |
| <b>Weight</b>    | 40gram                     |

### 💡 Light unit

|                          |                           |
|--------------------------|---------------------------|
| <b>ZRE Light Modul</b>   | 2 high bightness red leds |
| <b>Brightness</b>        | 12cd                      |
| <b>Power Source</b>      | DC 5~24V                  |
| <b>Power consumption</b> | 0.4W                      |
| <b>ZRD Light Modul</b>   | 2 high bightness red leds |
| <b>Brightness</b>        | 12cd                      |
| <b>Power Source</b>      | AC6V                      |
| <b>Power consumption</b> | 0.3W                      |

### 📋 ETC

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

U8

U1

N

H1

H2

S

U2

Z

SF



# SF

Built-in line-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.

E-bike

StVZO  
ZUGELASSEN



SF ● ●

The top of the SF is equipped with a special lighting module that passes StVZO's strengthened taillight standards. A built-in line optic light is under the StVZO light module, providing enhanced visibility and safety for riders.

## ⚙️ Features

|                             |  |
|-----------------------------|--|
| <b>Diameter</b>             | 27.2 / 30.9 (mm)                         |
| <b>Length</b>               | D27.2mm(350mm)<br>D30.9mm(350, 400mm)    |
| <b>color surface finish</b> | Matt Black/Polished Silver               |
| <b>Seatpost Type</b>        | 2bolt clamp, offset 9mm, mechanical stop |
| <b>Seapost material</b>     | Aluminum 6061 T6, UD Carbon              |

## 💡 Light unit

|                          |  |
|--------------------------|--|
| <b>Light Module</b>      | StVZO light module<br>COB light module |
| <b>Brightness</b>        | Max 12cd                               |
| <b>Power Source</b>      | The on-board battery of the e-bike     |
| <b>Nominal voltage</b>   | DC 12v(6v-24v)                         |
| <b>Power consumption</b> | Max 2W                                 |

## 📋 ETC

|   |   |
|---|---|
| <b>K-number</b>                             | In progress   |
| <b>Seatpost test standard</b>               | EN 17404, ISO-M   |
| <b>Compliant with standard or directive</b> | CE, RoHS, StVZO §22a TA Nr.14b (Rear lights for bicycles), IPX5 |
| <b>Package Contents</b>                     | rear light seatpost   |

U8

U1

N

H1

H2

S

U2

Z

SF NEW



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