LEAVE THE DARKNESS BEHIND

OEM Range

CATALOGUE

2027 Edition

©Litemove

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About Litemove

Optics-driven, Mobility-focused

Co-founded by German and Taiwan industry experts,**LITEMOVE Technology** is committed to pioneering lighting innovation while building a sustainable Eco System that drives low-carbon transportation and smart mobility solutions worldwide.
LITEMOVE understands that every cyclist's journey demands more than just illumination—it requires clarity, confidence, and enhanced safety. By leveraging Taiwan's advanced tech expertise, LITEMOVE has crafted the Cycling Smart Lighting Eco System, designed to seamlessly integrate with the rider's needs. This innovative approach optimizes lighting for maximum efficiency, intelligence, and sustainability, ensuring cyclists experience unparalleled visibility in all conditions. Meeting the highest global cycling safety standards, LITEMOVE's lighting solutions don't just illuminate the road—they empower riders with a safer, smarter, and more connected cycling experience.

A Commitment to Safety & Sustainability

Light is more than visibility—it's the foundation of a safer, smarter ride. With "Illuminate the Path to Cycling" as its guiding vision, LITEMOVE delivers industry-leading optical solutions backed by European service excellence. From advanced lighting technology to tailored support, LITEMOVE ensures every rider benefits from precision, reliability, and cutting-edge safety. By setting new standards in global cycling illumination, LITEMOVE isn't just shaping how we see the road—it's redefining the experience of a connected, secure, and sustainable ride.

Main Products & Service

- E-bike lights: E/e Mark | K-Mark
- AUX lights for motorcycles: ECE / E9
- Reflectors
- Homologation support

Our Management Certifications
IATF-16949 | ISO9001 | QS9000 | ISO14001 |

We have a simple but clear mission: Innovation / Sustainability / Quality / Service

Our R&D facilities are equipped with the latest simulation software, photometer, and testing labs, enabling us to utilize the latest technology to optimize design for innovative and cost-efficient solutions.

We are always searching to improve our solutions and push the limits of what our products are capable of, whilst remaining a sustainable.

We recognize that quality is crucial for our products- Right from the start of the design stage, we work closely with our quality control department, analyzing each process closely to ensure that quality is built into every stage of the manufacturing process.

Our customers always expect a quick response- So we have service centers in both Europe & Asia, that allow us to provide quick and professional services to our partners.

Our Prizes

Optical Technology

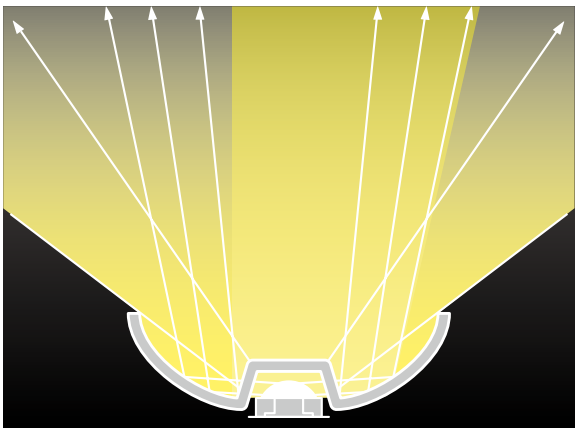
Litemove continues on developing innovative headlights and tail lights for electric bicycles. Optical performance is a crucial factor in our lighting design.

We provide extravagant lighting for the importance of safety while riding in any dark environments.

ATIR Series

ATIR

Next-Generation Illumination with ATIR Technology. We redefine lighting performance with **ATIR (Advanced Total Internal Reflection)** technology, an innovation inspired by automotive-grade optics. This compound lens system merges the precision of a reflector with the efficiency of a lens, ensuring maximum beam shaping and enhanced visibility for cyclists worldwide.



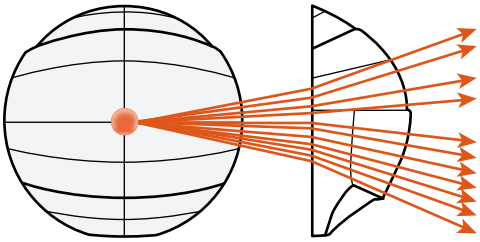
Optical Excellence for Superior Performance

The foundation of ATIR technology lies in its high-quality optical materials, which enable:

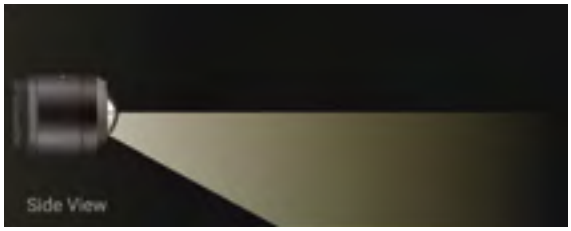
- ✓ Wider illumination for expansive road coverage.
- ✓ High lumens & lux for exceptional brightness.
- ✓ Uniform lighting distribution to eliminate glare and dark spots.
- ✓ Compact design for seamless integration into modern cycling systems
- ✓ Enhanced weather resistance for reliable performance in all conditions
- ✓ Extended product lifecycle, delivering long-term durability and sustainability
- ✓ Reduced light decay, ensuring lasting brightness and stability
- ✓ High-transparency glass & specialized coatings that maximize light transmission efficiency, minimizing absorption and scattering for superior performance.

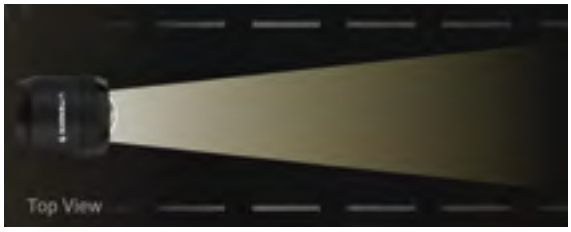
By harnessing advanced optical materials and engineering, we ensure that every ride is safer, smarter, and more efficient. This isn't just illumination — it's cutting-edge cycling technology, powered by precision optics.

MTi Series



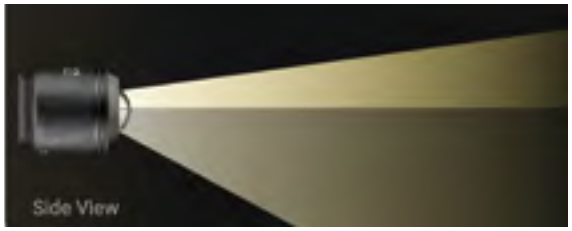
Taking its lead from car headlight technology, MTi (Multi-beam integration) lens uses a highly efficient aspheric lens, designed to offer a complex distribution of multi-beam pattern.

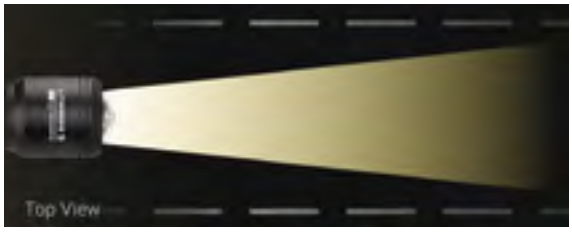


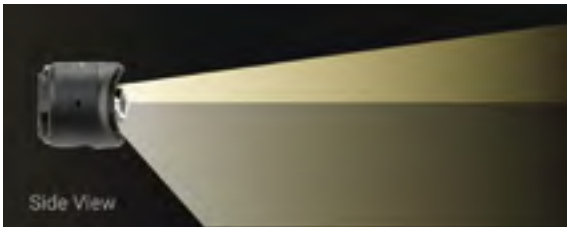


The aspheric lens is produced with precise plastic moulding, polishing single-point diamond turning, and injection moulding.

As a result, it minimizes the loss of light performance and provides great light exposure for maximum safety for our riders at any time of the day.







MTi PLUS

The MTi Plus gives users more visibility while providing dual light (high-beam) options.

The high-beam features brighter exposure that helps your ride on high speed paths with no lights, rural areas, trails, etc., as well as signalling incoming drivers or cyclists.

MTi PRO

The MTi Pro provides better illumination and wider beam distribution for additional value in a headlight.

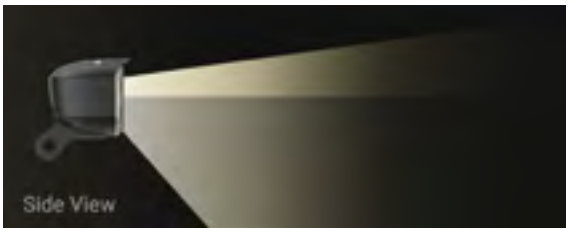
The dual light (high & low-beam) option is also included to provide advanced and incredible visibility for safety. These features give users the best riding experience while letting them feel responsive in wide and bright visibility in any environment, especially at night.

Best for: high speed paths with no lights, rural areas, mountain, unsurfaced, narrow road trails, etc.

RX Series

RX

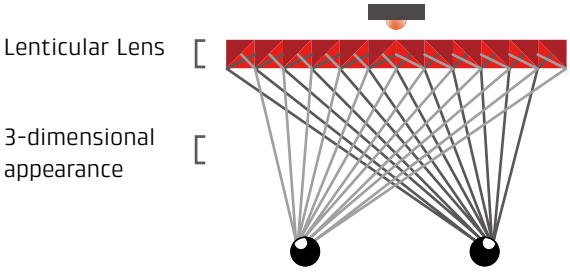
The RX reflector is our redefined design of optical technology. It uses a mirrored surface to project a wider angle of LED lighting at a great distance for precise visibility for riders to experience, especially in the city or suburban road in both daytime and nighttime.



RX PLUS

The RX Plus includes a dual light (high & low-beam) function for enhanced visibility for users to use. This feature provides a wide angle of consistent lighting, while providing a great distance of beam distribution. Best used for paths in the city and suburban roads in both daytime and nighttime. Its high-beam function enhances cyclists' awareness with their surroundings, as well as a signal to other road users.

LTi Series



RX PRO

RX Pro is advanced technology designed specifically for off-road use, with a large and refined beam distribution. Even in harsh nighttime conditions, it provides users with a great experience.
Whether riding on rugged mountain trails or traveling through forests, RX Pro ensures optimal lighting effects, improves safety and clarity of vision, allowing mountain biker to face various challenges with confidence.

LTi®

Similar to an auto car's tail light, LTi (lenticular) lens creates safety and visibility for cyclists from the back.

The lens provides a 3-dimensional appearance and beam patterns, creating a distinctive look that can be seen and noticed from various angles.

AXT

Auxiliary trigger connector allows the high beam switch easily routed inside of handlebar. Reduces the complexity of bicycle assembly and lowers the associated costs while simplifying follow-up maintenance.

EPC

Easy power connector- is an adding function for the light easily and quickly connected to motor system with FE cable solution. Reduce unnecessary redundancy complicated and inaccessible wiring can cause difficulties for mechanics.

AEB

Automatic emergency brake light is a feature that can sense slow or stopped traffic ahead and urgently apply the brakes if the driver fails to respond. Warns the rider/ driver of a hard braking event in front, even when the driver's view is obstructed by other vehicles or bad weather conditions. In addition, it enables a vehicle to broadcast a self-generated emergency brake event to surrounding vehicles.

LM

Lumen Measurement
Lumens (lm) are the units of luminous flux, which describe the total amount of visible light emitted by a light source. Lighting products use "lumens" to denote brightness, abbreviated as "lm." The higher the lumens, the brighter the light source.

Side View

Is important for visibility and safety, as side illumination helps cyclists be seen by vehicles and pedestrians at intersections or when crossing roads

ALU

Aluminum material

TH

Thermal conductive material for better heat flow

e25

Electrically Power Assisted Cycle (EPAC)- 25km

e45

Speed Pedelec- 45km

LUX

Lux is a unit of measurement for illuminance. Here, it refers to the brightness of the beam at a distance of 10 meters

ALS

Automatic light sensor-is to sense the amount of ambient light present and auto adjust the light output. The function of ALS distinguishes whether your bike is approaching a tunnel or dark area, auto adjust the brightness. It also saves battery consumption.

Hi Low

Dual-light function:
High & low-beam

12V

Input voltage range. Before plug-in, please check the input voltage range indicated on your product to ensure it matches the product range.

2500 mcd

Millicandelas (mcd) are a unit of luminous intensity used to measure the brightness of a light

E9

Complies with EU/ECE Regulations

IP

Ingress Protection rating that classifies the degrees of protection

USB-A

Common types of USB connector.

memory

A feature that allows the light to remember the last used brightness or mode when turned off.

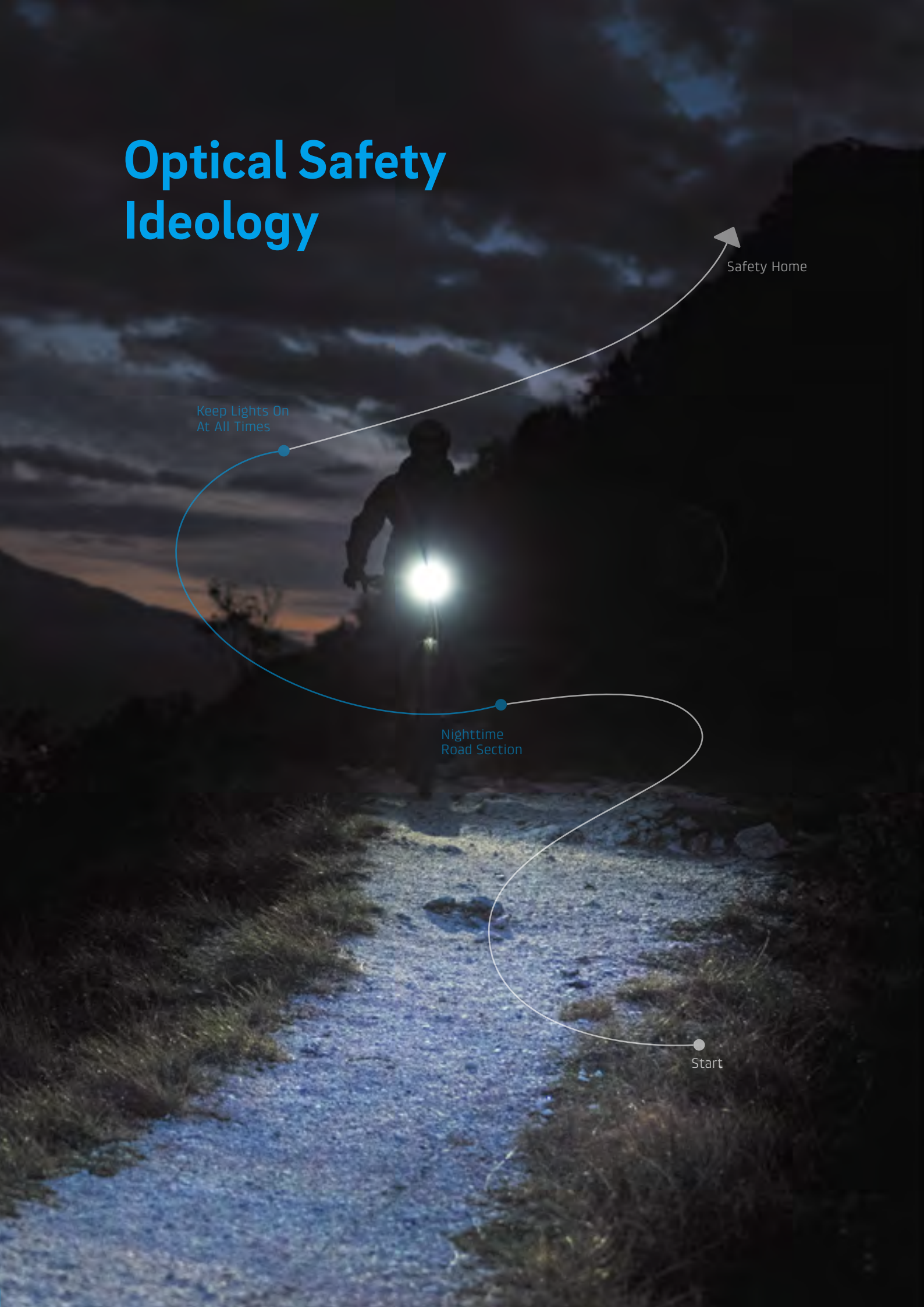
70 hrs upto

Operate for a maximum of the hours on a single full charge

StVZO

Complies with German Road Traffic Licensing Regulations

Optical Safety Ideology



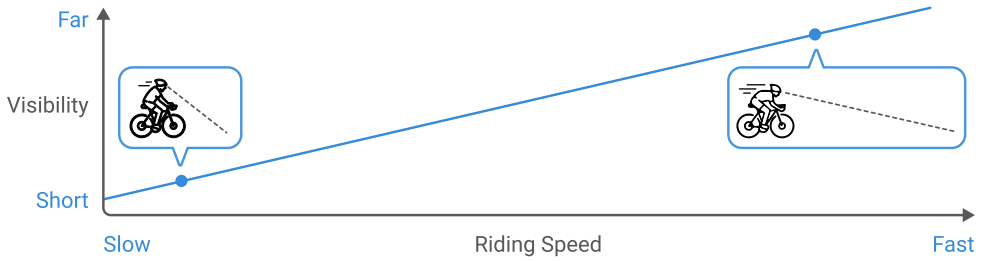
We care about your safety. Whether it's the environment or the speed of our ride, it all affects out vision. Having a basic understanding may let riders choose the most fitting headlight for their trails.

Speed Will Affect Our Vision

Our pupil distance (visibility) shifts according to how fast or slow we ride on the trail.

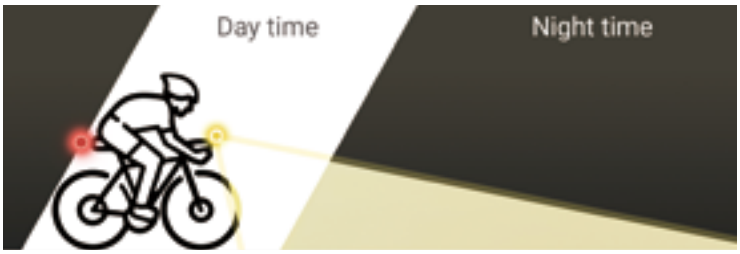
Decrease riding speed, shortens our pupil distance and lets us see closer.

Increase riding speed, widens our pupil distance which allows us to see further.



Lights On All-Time Decrease Accidents

Having both headlights & tail lights on e-bikes boost cyclsists' visibility and safety from incoming passengers at all time.



19%

Decrease in accidents with lights on at all times

Importance of Having Proper Lights on

Lights designed with cut-off line and proper brightness, prevents binding or collisions with other users.

Suggested Lights to Use in Certain Scenario

Standard Beam

Standard beam (low-beam) with wide beam angles are appropriate for unsurfaced narrow roads.

Wide Beam Angle

Dual light options (high & low-beam) with wide beam angle is recommended using on mountain trails for precise visibility and safety.

Far Distane Beam

Dual light optoins (high & low-beam) with far distane beam is vital on highways and urban roads.

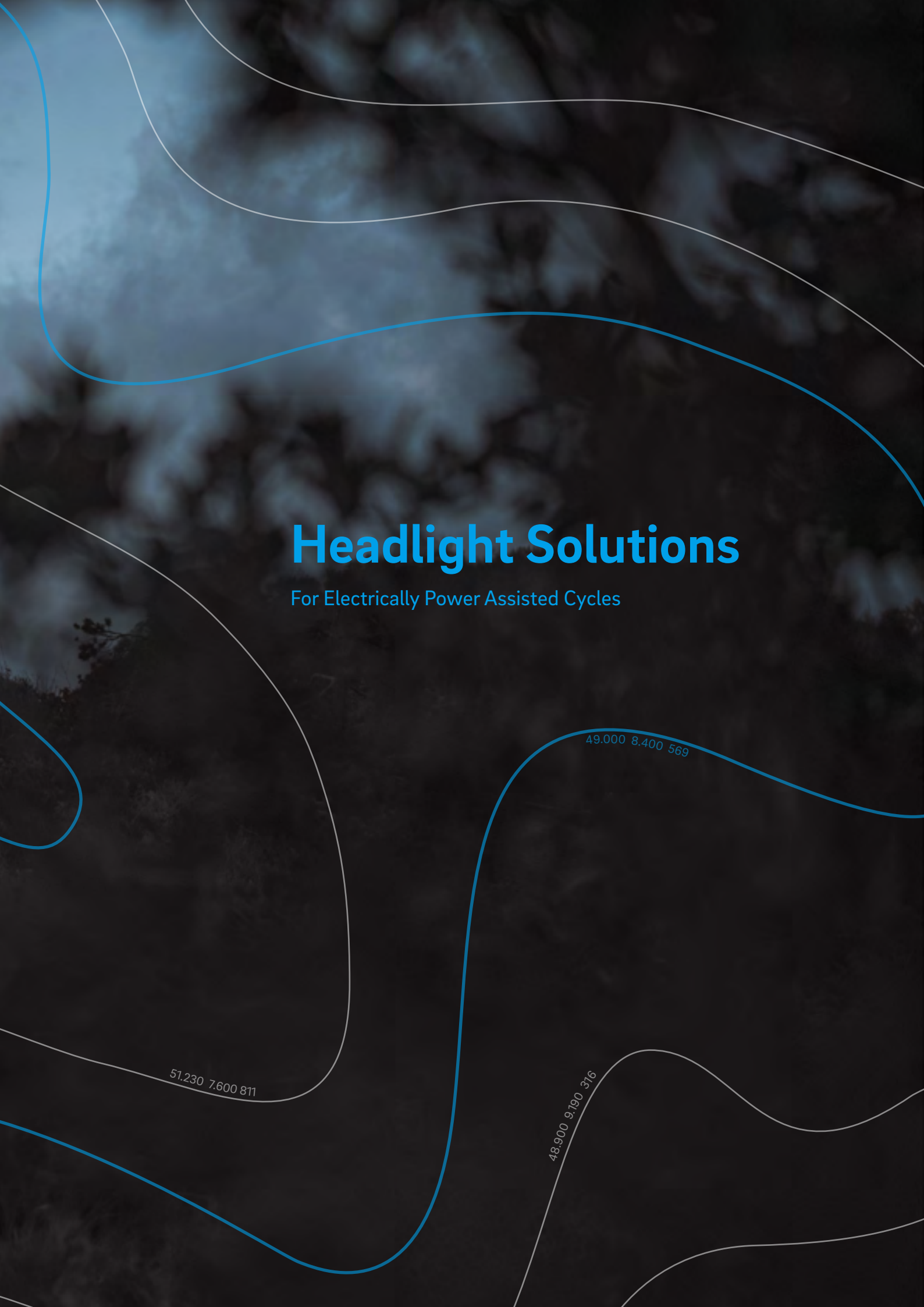
Standard Beam

Standard beam (low-beam) is ideal for riding in the city, while preventing incoming users with excessive glare.

52.520 13.380 821
51.680 7.120 750

Headlight Solutions

For Electrically Power Assisted Cycles



Headlight Overview

	RXW-2900	AEW-230	AC-210	AC-150	ACN-1200	RLX-100H
Light Output	140 / 200 Lux 1665 / 2900 lm	170 / 230 Lux	140 / 210 Lux	90 / 150 Lux	990 / 1200 Lumens	60 / 100 Lux
Beam Type	Low / High (Wide)	Low / High (Wide)	Low / High	Low / High	Low / High	Low / High
Beam Width @5M	10m / 10m	10m / 10m	5.5m / 6m	4m / 4.5m	5m / 5m	3.5m / 3.5m
Beam Width @10M	10m / 11m	10m / 10m	10m / 10.5m	7m / 8m	8m / 9m	6m / 6m
Visibility Distance	280m	300m	300m	230m	230m	200m
Power Source						
E-bike System: 12V	●	●	●	●	●	●
E-bike System: 6V				●		●
Battery						
Environment						
Daytime/ Sunrise	●	●	●	●	●	●
Nighttime/ Sunset	●	●	●	●	●	●
Fog/ Rain/ Snow						
Rider Scenario						
City/ Urban Area			●	●	●	●
Rural Area	●	●	●	●	●	●
Mountain Trails	●	●				
Legal Requirement						
K-mark	●	●	●	●		●
E-mark						

	RX-E90	SC-160	SCN-1700	ATS-E850	SEC-150	SEC-110	ATS-E85
Light Output	50 / 90 Lux	160 Lux 600 Lumens	1700 Lumens	850 Lumens	150 Lux	110 Lux	85 Lux
Beam Type	Low / High	Low (Wide)	Low (Wide)	Low	Low	Low	Low
Beam Width @5M	4m / 4.5m	7.5m	9m	6.5m	5.5m	5.5m	5.5m
Beam Width @10M	8m / 8m	12m	12m	8.5m	10m	10m	8m
Visibility Distance	180m	250m	230m	190m	250m	210m	185m
Power Source							
E-bike System: 12V	●	●	●	●	●	●	●
E-bike System: 6V	●						
Battery							
Environment							
Daytime/ Sunrise	●	●	●	●	●	●	●
Nighttime/ Sunset	●	●	●	●	●	●	●
Fog/ Rain/ Snow		●	●	●	●	●	●
Rider Scenario							
City/ Urban Area	●	●	●	●	●	●	●
Rural Area	●	●	●		●	●	●
Mountain Trails							
Legal Requirement							
K-mark	●	●			●	●	●
E-mark							

Headlight Overview

	SE-90/ SE-90A	SE-70	RLX-60	RLX-100	AE-200
Light Output	90 Lux	70 Lux	60 Lux	100 Lux	600 / 500 Lumens
Beam Type	Low	Low	Low	Low	Low / High
Beam Width @5M	5m	4.5m	3.5m	5m	4m / 4m
Beam Width @10M	8.5m	8m	6m	7m	8m / 8m
Visibility Distance	180m	160m	160m	200m	280m
Power Source					
E-bike System: 12V	●	●	●	●	●
E-bike System: 6V	●	●	●	●	
Battery					
Environment					
Daytime/ Sunrise	●	●	●	●	●
Nighttime/ Sunset	●	●	●	●	●
Fog/ Rain/ Snow	●	●	●	●	
Rider Scenario					
City/ Urban Area	●	●	●	●	●
Rural Area	●			●	●
Mountain Trails					
Legal Requirement					
K-mark	●	●	●	●	
E-mark					●

Illuminating the Path to Cycling

RXW-2900

2900 Lumens
For demanding mountain bikers

- The RXW-2900 is the brightest e-bike front light designed for off-road use, and it's StVZO certified
- With its refined beam distribution, the RXW-2900 offers secured illumination while riding
- Equipped with 12 powerful LEDs, it boasts a high beam of up to 2,900 lumens. The built-in auto light sensor automatically switches between daylight and low beam modes for optimal visibility
- Engineered for performance, the RXW-2900 features an aluminum construction along with advanced thermal technology and high-grade electronic production facilities
- This ensures outstanding heat dissipation and a longer lifespan, so the light output remains consistently high throughout the entirety of its runtime

Specification

Model name	RXW-2900
Model no.	RXW2900
S/N	0025
Light output	High beam: 200 Lux / 2900 Lumens (28W) 170 Lux / 2425 Lumens (22W) 140 Lux / 1970 Lumens (17W) Low beam: 140 Lux / 1665 Lumens Day Light: 60 Lux / 650 Lumens
Optical technology	RX Pro
Light source	LED *12
Input voltage (DC)	12V (11V - 16V)
Power consumption	High beam : 28W / 22W / 17W Low beam : 13.5W Day Light: 5.5W
Auto Light Sensor	YES

Specification

Cable diameter	Power: Ø 4mm Switch : Ø 2.55mm
Cable length	Power: 1400mm Switch: 300mm
IP rating	IP56
Operating temperature (°C)	-25~+50
Material	Aluminum
Weight (w/o cable)	155g
Dimension (WXHXL)	83 x 50.8 x 52 mm
Switch bracket / mount	Ø 22.2mm
Reflector (optional)	N/A
Compliance	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742
Approval number	- K 2509

No trail too dark.
No ride too wild.

AEW-230

Performance Wide Beam Distribution

- 230 lux / 950 lumen highly efficient LED light, with cut-off line beam preventing oncoming eyes from glare
- Up to 10m wide and up to 300m distance of beam visibility ahead
- 2-piece control switch for high-beam function
- Aluminum Pre Casting & CNC housing
- For 25km e-bike / EPAC
- K-Mark & EN-15194-CE compliance

Specification

Model name	AEW-230
Model no.	HKAEW230
S/N	E10
Light output	High beam: 230 lux / 950 lumens Low beam: 170 lux / 550 lumens
Optical technology	MTi Pro
Light source	LED *4
Input voltage (DC)	12V (9V - 16V)
Power consumption	High beam: 15W max. Low beam : 7.3W
Cable diameter	Power: Ø 4mm Switch : Ø 2.55mm
Cable length	Power: 1400mm Switch: 300mm
IP rating	IP56
Operating temperature (°C)	-25~+70
Material	Aluminum
Weight (w/o cable)	165g
Dimension (WXHXL)	63.1 x 49.9 x 52 mm
Switch bracket / mount	Ø 22.2mm
Reflector (optional)	RFD
Compliance	CE / RoHS / REACH / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	- K 1973

AC-210 / AC-150

- Use MTi Plus system, which includes dual-beam option (high/ low-beam)
- 2-piece control switch for high-beam function
- Multiple mounting options in one housing: fork, stem, or handlebar
- IP56- Protects against high pressure water or dust ingress
- Aluminum housing
- For 25km e-bike / EPAC
- K-Mark & ISO 6742 compliance

Specification

Model name	AC-210	AC-150
Model no.	AC210D / AC210S / AC210U	AC150D / AC150S / AC150U
S/N	10015	0023
Light output	High beam : 210 lux / 700 lumens Low beam : 140 lux / 460 lumens	High beam : 150 lux / 600 lumens Low beam : 90 lux / 380 lumens
Optical technology	MTi Plus	MTi Plus
Light source	LED *6	LED *4
Input voltage (DC)	12V (11V - 16V)	12V (6V - 16V)
Power consumption	High beam: 16W max. Low beam : 10W	High beam: 13W max. Low beam : 6W
Cable diameter	Power: Ø 4mm Switch : Ø 2.55mm	Power: Ø 4mm Switch : Ø 2.55mm
Cable length	Power: 1400mm Switch: 300mm / 650mm	Power: 1400mm Switch: 300mm / 650mm
IP rating	IP56	IP56
Operating temperature (°C)	-25~+50	-25~+50
Material	Aluminum	Aluminum
Weight (w/o cable)	128g	128g
Dimension (WXHXL)	Ø 46 x 52 mm	Ø 46 x 52 mm
Switch bracket / mount	Ø 22.2mm	Ø 22.2mm
Reflector (optional)	RF1 / RFD	RF1 / RFD
Compliance	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	- K 2510	- K 1837

ACN-1200

- The ACN-1200 is a powerful e-bike light delivering 1200 lumens of output with a high/low beam function to adapt to changing conditions
- Utilizing our second-generation MTi Plus optical technology, the ACN-1200 is engineered with a specially refined beam pattern that provides optimal illumination for high-speed riding over varied terrain
- The durable aluminum construction, combined with efficient cooling technology, ensures the light can withstand the elements while maintaining consistent, long-lasting performance

Specification

Model name	ACN-1200
Model no.	ACN1200D / ACN1200S / ACN1200U
S/N	0032
Light output	High beam : 155 lux / 1200 lumens Low beam : 130 lux / 990 lumens
Optical technology	MTi Plus
Light source	LED *12
Input voltage (DC)	12V (11V - 16V)
Power consumption	High beam: 18W max. Low beam : 11W
Cable diameter	Power: Ø 4mm Switch : Ø 2.55mm
Cable length	Power: 1400mm Switch: 300mm / 650mm
IP rating	IP56
Operating temperature (°C)	-25~+50
Material	Aluminum
Weight (w/o cable)	128g
Dimension (WXHXL)	Ø 46 x 52 mm
Switch bracket / mount	Ø 22.2mm
Reflector (optional)	RF1 / RFD
Compliance	CE / RoHS / REACH
Type of approval	N/A
Approval number	N/A

RLX-100H

RLX-100H

RLX100HUP

RLX100HD

- RX Plus optical reflector with dual high/low beam design for optimized light distribution and improved rider visibility.
- Dual High/Low Beam with up to 100 lux, 6 m beam width, and 200 m beam distance.
- Offers multiple mounting options for flexible installation.
- IP56-rated protection against high-pressure water and dust Intrusion.
- Designed for 25km/h e-bikes and EPAC systems.
- Meets K-Mark and ISO-6742 compliance standards.

Specification

Model name	RLX-100H
Model no.	RLX100H
S/N	0038
Light output	High beam : 100 lux / 320 lumens Low beam : 60 lux / 180 lumens
Optical technology	RX Plus
Light source	LED *2
Input voltage (DC)	12V (5V-16V)
Power consumption	High beam : 5.4W Low beam : 2.8W
Cable diameter	Power : Ø 4mm Switch : Ø 2.55mm
Cable length	Power: 1400mm Switch: 300mm / 650mm
IP rating	IP56
Operating temperature (°C)	-25 ~ +50
Material	Plastic
Weight (w/o cable)	45g
Dimension (WXHXL)	43.3 x 43.7 x 51.3 mm
Switch bracket / mount	Ø 22.2mm
Reflector (optional)	RFDT
Compliance	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 2615

Specification

Model name	RLX-100H	RLX-100H
Model no.	RLX100HD	RLX100HUP
S/N	0060	-
Light output	High beam : 100 lux / 320 lumens Low beam : 60 lux / 180 lumens	High beam : 100 lux / 320 lumens Low beam : 60 lux / 180 lumens
Optical technology	RX Plus	RX Plus
Light source	LED *2	LED *2
Input voltage (DC)	12V (5V-16V)	12V (5V-16V)
Power consumption	High beam : 5.4W Low beam : 2.8W	High beam : 5.4W Low beam : 2.8W
Cable diameter	Power : Ø 4mm Switch : Ø 2.55mm	Power : Ø 4mm Switch : Ø 2.55mm
Cable length	Power: 1400mm Switch: 300mm / 650mm	Power: 1400mm Switch: 300mm / 650mm
IP rating	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50
Material	Plastic	Plastic
Weight (w/o cable)	-	-
Dimension (WXHXL)	46 x 61.4 x 52.5 mm	43.7 x 44 x 56 mm
Switch bracket / mount	Ø 22.2mm	Ø 22.2mm
Reflector (optional)	RF1	RFDT
Compliance	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2615	~ K 2615

RX-E90

- 90 lux highly efficient led lights, with cut-off line beam preventing oncoming eyes from glare
- Up to 8m wide and up to 180m distance of beam visibility ahead
- 2-piece control switch for high-beam function
- Multiple mounting options
- For 25km e-bike / EPAC
- Compliant with StVZO-K standard

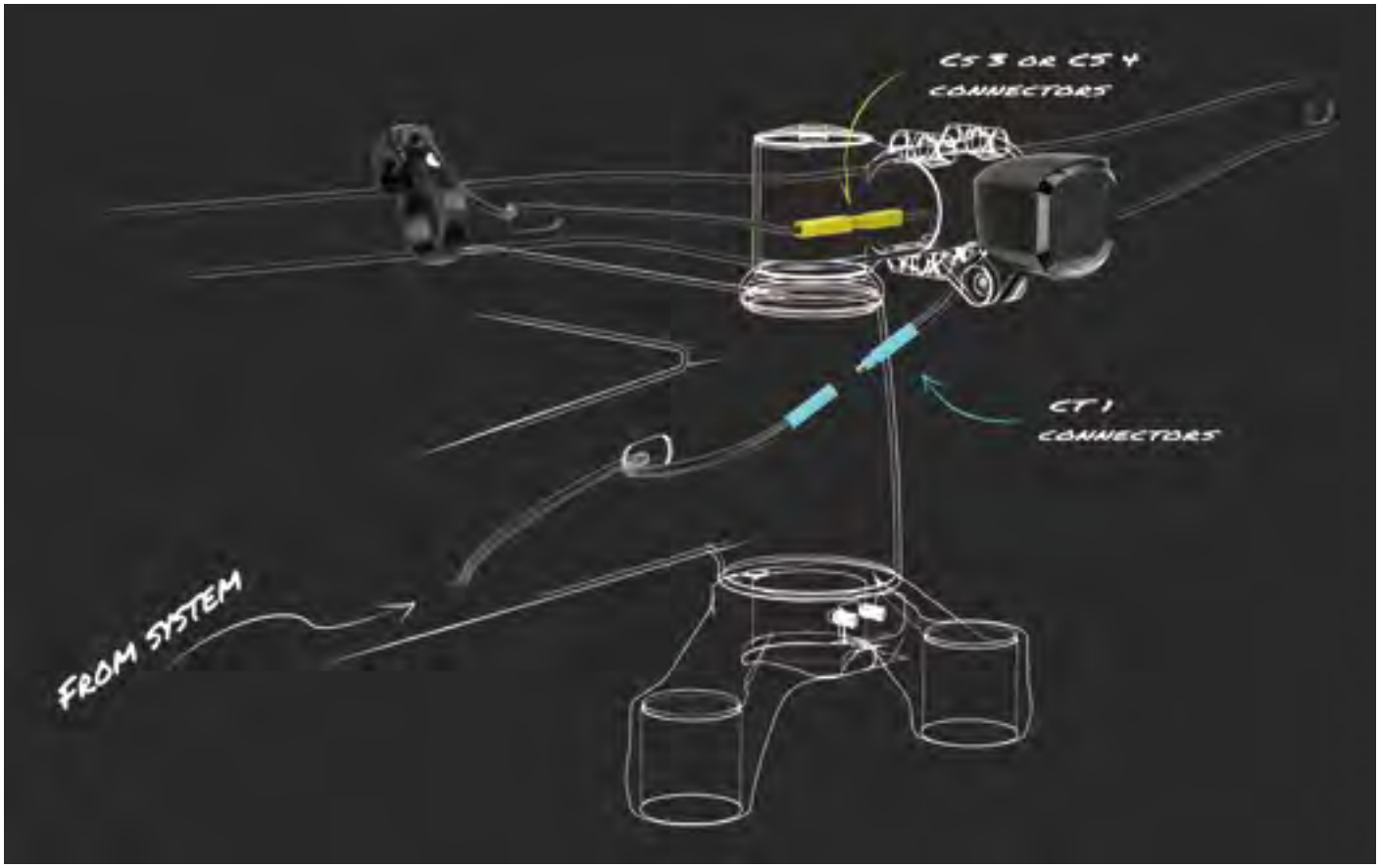
Specification

Model name	RX-E90
Model no.	RXE90
S/N	RX02
Light output	High beam: 90 lux / 400 lumens Low beam: 50 lux / 200 lumens
Optical technology	RX Plus
Light source	LED *2
Input voltage (DC)	6V (5V - 16V)
Power consumption	High beam: 5.8W max. Low beam: 2.9W
Cable diameter	Power: Ø 4mm Switch: Ø 2.55mm
Cable length	Power: 1400mm Switch: 300mm / 650mm
IP rating	IP56
Operating temperature (°C)	-25 ~ +70
Material	Aluminum
Weight (w/o cable)	37.5g
Dimension (WXHXL)	39.2 x 52.6 x 48.8 mm
Switch bracket / mount	Ø 22.2mm
Reflector (optional)	RFD
Compliance	CE / RoHS / REACH / prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 2047

FE Cable Solutions

- PVC free cable
- Make a Clean & Neat Assemble
- Hassle free for repair
- Compatible with Litemove headlights with
- EPC function (easy power connector)
- Available for Bosch / Shimano / Avinox / Yamaha / TQ …

Easy power connector- is an adding function for the light easily and quickly connected to motor e-bike system with FE cable solution. Reduce unnecessary redundancy complicated and inaccessible wiring can cause difficulties for mechanics. Litemove offers EPC option per demands.



LITEMOVE × SP CONNECT

Universal Smart Lighting Solution

- Offers cross-bike compatibility with a "one mount, multiple bikes" design, allowing riders to easily switch the light between different bicycles without changing mounts
- Provides flexibility to quickly swap between the light and accessories, such as phone cases, adapting to diverse riding senarios
- Supports sustainable transport and green mobility; the light can be easily transferred to future bike upgrades, significantly reducing replacement waste

E-Cap

Series	AC / ACN	SC / SCN	SEC
Model no.	AC210SP / AC150SP / ACN1200SP	SC160SP / SCN1700SP	SEC150SP / SEC110SP
Weight	112g	108g	89g
Dimension (WXHXL)	Ø 46 x 49 mm	Ø 46 x 42.6 mm	Ø 43.5 x 48 mm
Reflector (optional)	RFD	RFD	RFD

* Full optical and electrical specifications: please refer to each model page.

SC-160

- Apply with the most modern ATIR optical technology
- 12m wide and up to 250m distance of beam visibility ahead
- 160 lux high brightness and 600 lumens output
- 11V-16V with a power consumption of 11 Watt
- Multiple mounting options in one housing: fork, stem, handlebar, or fender
- IP56- Protects against high pressure water or dust ingress
- Aluminum housing
- For 25km e-bike / EPAC
- K-Mark & EN-15194-CE compliance

160 LUX · e25 · 12V · IP 56 · Side View · ALU · EPC · StVZO · ATIR

Specification

Model name	SC-160
Model no.	SC160D / SC160S / SC160U
S/N	0020
Light output	160 lux / 600 lumens
Optical technology	ATIR
Light source	LED *3
Input voltage (DC)	12V (11V - 16V)
Power consumption	11W
Cable diameter	Ø 4mm
Cable length	1400mm
IP rating	IP56
Operating temperature (°C)	-25~+50
Material	Aluminum
Weight (w/o cable)	115g
Dimension (WXHXL)	Ø 46 x 40.8 mm
Reflector (optional)	RF1 / RFD
Compliance	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742
Approval number	~K 2581

SCN-1700

- The SCN-1700 is a powerful e-bike light delivering 1700 lumens of output
- Equipped with our latest ATIR (advanced total internal reflection) optical technology, the SCN-1700 provides wider, more uniform beam distribution for unparalleled visibility
- Built to withstand the elements with superior weather-resistant capabilities
- The lightweight, compact aluminum construction is engineered for maximum durability, while the integrated cooling system ensures consistent, high-performance output no matter how demanding the ride

1700 lumens | 12V | IP 56 | Side View | ALU | ATIR

Specification

Model name	SCN-1700
Model no.	SCN1700D / SCN1700S / SCN1700U
S/N	0033
Light output	130 lux / 1700 lumens
Optical technology	ATIR
Light source	LED *6
Input voltage (DC)	12V (11V - 16V)
Power consumption	18W max.
Cable diameter	Ø 4mm
Cable length	1400mm
IP rating	IP56
Operating temperature (°C)	-25~+50
Material	Aluminum
Weight (w/o cable)	115g
Dimension (WXHXL)	Ø 46 x 40.8 mm
Reflector (optional)	RF1 / RFD
Compliance	CE / RoHS / REACH
Type of approval	N/A
Approval number	N/A

SEC-150 / SEC-110

- Advanced MTi Optical System for optimized beam distribution and enhanced road visibility
- High-performance LED Output delivering up to 150 Lux (SEC-150) / 110 Lux (SEC-110) with efficient power consumption.
- Wide & Uniform Beam Coverage with multi-beam illumination (SEC-150) and standard cut-off line beam with up to 210 m visibility distance (SEC-110)
- Offers multiple mounting options for versatile installation
- IP56- Protest against high pressure water or dust ingress
- Aluminum & Plastic housing
- For 25km e-bike / EPAC K-Mark/ ISO-6742 compliance applications

Specification

Model name	SEC-150	SEC-110
Model no.	SEC150D / SEC150S / SEC150U	SEC110D / SEC110S / SEC110U
S/N	0028	10019
Light output	150 lux / 500 lumens	110 lux / 300 lumens
Optical technology	MTi	MTi
Light source	LED *3	LED *2
Input voltage (DC)	12V (11V - 16V)	12V (8V - 16V)
Power consumption	10W	8W
Cable diameter	Ø 4mm	Ø 4mm
Cable length	1400mm	1400mm
IP rating	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50
Material	Aluminum	Aluminum / Plastic
Weight (w/o cable)	90g	85g
Dimension (WXHXL)	Ø 43.5 x 46.9 mm	Ø 43.5 x 46.9 mm
Reflector (optional)	RF1 / RFD	RF1 / RFD
Compliance	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2510	~ K 2511

ATS-E850 / ATS-E85

- Up to 90 lux / 850 lumens (ATS-E850) and 85 lux / 550 lumens (ATS-E85) output
- Advanced ATIR optics shape the beam through controlled distribution – not just raw brightness
- 8.5 m wide beam with up to 190 m reach to illuminate the full riding view and read the road earlier
- 32.5 x 33 x 51 mm ultra-compact form factor
- Integrates into the stem, fork or system modules
- Built-in mounting point for an optional reflector
- IP56- Protects against high pressure water or dust ingress
- For 25km e-bike / EPAC
- ISO 6742 & StVZO compliance (ATS-E85)

90 LUX · 85 LUX · 25 · 12V · IP 56 · ALU · Side View · EPC · StVZO · ATIR

Specification

Model name	ATS-E85	ATS-E850
Model no.	ATS-E03UP / ATS-E03LO	ATS-E01UP / ATS-E01LO
S/N	0047(UP) / 0047-2(LO)	0047-3(UP) / 0047-1(LO)
Light output	85 lux / 550 lumens	90 lux / 850 lumens
Optical technology	ATIR	ATIR
Light source	LED *3	LED *3
Input voltage (DC)	12V (11V - 16V)	12V (11V - 16V)
Power consumption	9W	9W
Cable diameter	Ø 4mm	Ø 4mm
Cable length	1400mm	1400mm
IP rating	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50
Material	Aluminum	Aluminum
Weight (w/o cable)	60g	60g
Dimension (WXHXL)	32.5 x 33 x 51 mm	32.5 x 33 x 51 mm
Reflector (optional)	RFD	RFD
Compliance	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	N/A
Approval number	~ K 2775	N/A

SE-90 / SE-70

- Highly efficient led lights, with cut-off line beam preventing oncoming eyes from glare
- Up to 8.5m wide and up to 180m distance of beam visibility ahead (SE-90)
- 2 mount options: fork or stem
- IP56- Protects against high pressure water or dust ingress
- For 25km e-bike / EPAC
- K-Mark & EN-15194-CE compliance

Specification

Model name	SE-90	SE-70
Model no.	SE90D / SE90U	SE70D / SE70U
S/N	0021	0018
Light output	90 lux / 200 lumens	70 lux / 150 lumens
Optical technology	MTi	MTi
Light source	LED *1	LED *1
Input voltage (DC)	6V (5V - 16V)	6V (5V - 16V)
Power consumption	5W	4W
Cable diameter	Ø 4mm	Ø 4mm
Cable length	1400mm	1400mm
IP rating	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50
Material	Plastic	Plastic
Weight (w/o cable)	66g	66g
Dimension (WXHXL)	Ø 43.5 x 49 mm	Ø 43.5 x 49 mm
Reflector (optional)	RF1	RF1
Compliance	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2379	~ K 2379

SE-90A

- Built-in smart ambient sensor enables variable lumens light output depending on environment condition
- Standard (90 lux) / Day light (30 lux)
- Auto brightness switch for power saving
- IP56- Protest against high pressure water or dust ingress
- For 25km e-bike / EPAC
- K-Mark and EN-15194 CE compliance

Specification

Model name	SE-90A
Model no.	SE90AD
S/N	0024
Light output	Standard: 90 lux / 200 lumens Day Light: 30 lux / 50 lumens
Optical technology	MTi
Light source	LED *1
Input voltage (DC)	6V (5V - 16V)
Power consumption	Standard: 5W Day Light: 1.5W
Cable diameter	Ø 4mm
Cable length	1400mm
IP rating	IP56
Operating temperature (°C)	-25 ~ +50
Material	Plastic
Weight (w/o cable)	67g
Dimension (WXHXL)	Ø 43.5 x 49 mm
Reflector (optional)	RF1
Compliance	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 2379

RLX-60 / RLX-100

RLX-60 / RLX-100

RLX60UP / RLX100UP

RLX60D / RLX100D

- Equipped with a RX optical reflector for enhanced visibility
- Delivers a beam width of up to 7m (RLX-100) and a beam throw reaching 160m (RLX-60) / 200m (RLX-100)
- Provides brightness up to 60 lux (RLX-60) / 100 lux (RLX-100)
- Operates on 6V (compatible with 5V–16V) with a low power Consumption
- Offers multiple mounting options for flexible installation
- IP56-rated protection against high-pressure water and dust Intrusion
- Designed for 25km/h e-bikes and EPAC systems
- Meets K-Mark and ISO-6742 compliance standards

Specification

Model name	RLX-100	RLX-60
Model no.	RLX100	RLX60
S/N	0043	0037
Light output	100 lux / 230 lumens	60 lux / 180 lumens
Optical technology	RX	RX
Light source	LED *1	LED *1
Input voltage (DC)	12V (5V-16V)	12V (5V-16V)
Power consumption	4.8W	2.8W
Cable diameter	Ø 4mm	Ø 4mm
Cable length	Power： 1400mm	Power: 1400mm
IP rating	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50
Material	Plastic	Plastic
Weight (w/o cable)	34g	34g
Dimension (WXHXL)	43.3 x 43.7 x 51.3 mm	43.3 x 43.7 x 51.3 mm
Reflector (optional)	RFDT	RFDT
Compliance	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2615	~ K 2615

Specification

Model name	RLX-100	RLX-60	RLX-100	RLX-60
Model no.	RLX100D	RLX60D	RLX100UP	RLX60UP
S/N	0059	0058	-	-
Light output	100 lux / 230 lumens	60 lux / 180 lumens	100 lux / 230 lumens	60 lux / 180 lumens
Optical technology	RX	RX	RX	RX
Light source	LED *1	LED *1	LED *1	LED *1
Input voltage (DC)	12V (5V-16V)	12V (5V-16V)	12V (5V-16V)	12V (5V-16V)
Power consumption	4.8W	2.8W	4.8W	2.8W
Cable diameter	Ø 4mm	Ø 4mm	Ø 4mm	Ø 4mm
Cable length	Power： 1400mm	Power: 1400mm	Power： 1400mm	Power: 1400mm
IP rating	IP56	IP56	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50	-25 ~ +50	-25 ~ +50
Material	Plastic	Plastic	Plastic	Plastic
Weight (w/o cable)	-	-	-	-
Dimension (WXHXL)	46 x 61.4 x 52.5 mm	46 x 61.4 x 52.5 mm	43.7 x 44 x 56 mm	43.7 x 44 x 56 mm
Reflector (optional)	RF1	RF1	RFDT	RFDT
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2615	~ K 2615	~ K 2615	~ K 2615

Headlight

For Speed Pedelec

AE-200

For 45km Speed Pedelec

- Use MTi Plus system, which includes dual-beam option (high/low-beam)
- 8m wide and up to 280m distance of beam visibility ahead
- Up to 600 lumens
- 9-16V with a power consumption up to 13 Watt
- 2-piece control switch for high-beam function
- Multiple mounting options in one housing: fork, stem, or handlebar
- IP56- Protects against high pressure water or dust ingress
- Aluminum housing
- **For L1e/ L2e/ L3e**
- UNECE R113 Class-B (E-mark) & EN-15194-CE compliance

Specification

Model name	AE-200
Model no.	HEAE200D / HEAE200U / HEAE200R
S/N	AE200
Light output	High beam (Driving beam) : 600 lumens Low beam (Passing beam) : 500 lumens
Optical technology	MTi Plus
Light source	LED *4
Input voltage (DC)	12V (9V - 16V)
Power consumption	High beam: 13W Low beam: 9.6W
Cable diameter	Power: Ø 4mm Switch:Ø 2.55mm
Cable length	Power: 1400mm Switch: 300mm / 650mm
IP rating	IP56
Operating temperature (°C)	-25 ~ +70
Material	Aluminum
Weight (w/o cable)	120g
Dimension (WXHXL)	Ø 46 x 59.5 mm
Switch bracket / mount	Ø 22.2mm
Reflector (optional)	RF1 / RFD
Compliance	CE / RoHS / REACH / Prop 65
Type of approval	UNECE R113 Class-B / ISO 6742
Approval number	E9 16897

Tail Light

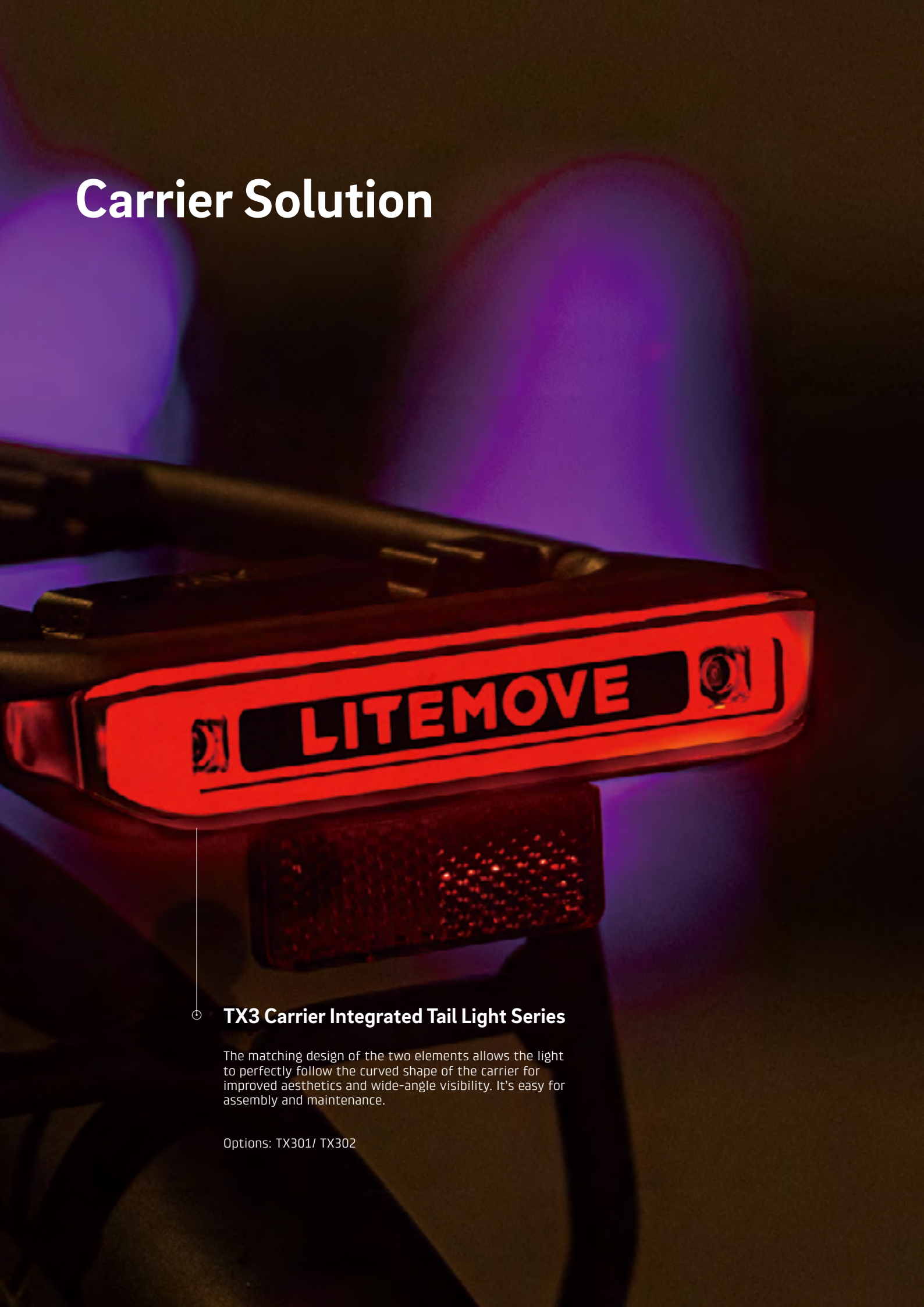
613
627

Taillight Operation Method

	TX301	TX302	TZVB	TZV	TZHB	TZH
Constant (High)						
Constant (Std)	●	●	●	●	●	●
Constant (Eco)						
Flash Modes						
Strobe						
Flash						
Eco Flash						
Functions						
Brake Warning	●		●		●	
Emergy Alert	●		●		●	
Crash Alert	●		●		●	
Memory Function						
Hibernation						
Constant Current						

	NTL01	NTL03	TB01	TB02	TB03	TB04
Constant Modes						
Constant (High)	●	●	●	●	●	●
Constant (Std)	●	●	●	●	●	●
Constant (Eco)						
Flash Modes						
Strobe	●		●	●		
Flash	●		●	●		
Eco Flash	●		●	●		
Functions						
Brake Warning	●			●		●
Emergy Alert	●			●		●
Crash Alert	●			●		●
Memory Function	●	●	●	●	●	●
Hibernation	●					
Constant Current	●	●	●	●	●	●

Carrier Solution



TX3 Carrier Integrated Tail Light Series

The matching design of the two elements allows the light to perfectly follow the curved shape of the carrier for improved aesthetics and wide-angle visibility. It's easy for assembly and maintenance.

Options: TX301/ TX302

TX301 / TX302

GERMAN DESIGN AWARD WINNER 2025

- A tail light with sensor brake function
- 6-16V with a power consumption of max.2 Watt
- Integrated design to mount with bike's cargo rack (Compatible with MIK system)
- Plug-in cable designed for easy installment and Maintenance
- Auxiliary slide-in retro-reflector
- 240 degree wide visibility
- For 25km e-bike / EPAC
- K-Mark / ISO-6742 & EN-15194-CE compliance

80000 mcd | 2500 mcd | e 25 | 6/12 V | IP 56 | TH | Side View | AEB | StVZO

Specification

Model name	TX3	TX3
Model no.	TX301	TX302
S/N	0014	0014-1
Light output	Brake light : 80000mcd / 30 lumens Rear light : 2600mcd / 12 lumens	2500mcd / 10 lumens
Optical technology	TX3	TX3
Light source	LED *48	LED *46
Input voltage (DC)	12V (6V - 16V)	12V (6V - 16V)
Power consumption	Brake light : 2W Rear light : 0.6W	0.6W
Brake Warning	YES	N/A
Emergency Alert	YES	N/A
Crash Alert	YES	N/A
Cable diameter	Ø 3mm	Ø 3mm
Cable length	1400mm	1400mm
IP rating	IP56	IP56
Operating temperature (°C)	-25~+50	-25~+50
Material	Plastic	Plastic
Weight (w/o cable)	36g	36g
Dimension (WXHXL)	124.4 x 20.4 x 16.8 mm	124.4 x 20.4 x 16.8 mm
Mounting option	TX3-compatible rack	TX3-compatible rack
Reflector (optional)	RF2	RF2
Compliance	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2450	~ K 2450

TZH / TZHB

The TZH tail light features a carrier-mounted design, integrated with a Z-marked retroreflector in compliance with German StVZO regulations, along with a 50mm mounting option for easy installation.

Available in two models:

- TZH – K-Mark certified taillight for regulatory-approved illumination
- TZHB – K-Mark certified taillight with a brake warning function for added safety

Specification

Model name	TZHB	TZH
Model no.	TZHB	TZH
S/N	0042	0042-1
Light output	Brake light : 55000mcd / 33 lumens Rear light : 10000mcd / 16 lumens	10000mcd / 16 lumens
Optical technology		
Light source	LED*4	LED*2
Input voltage (DC)	12V (6V-16V)	12V (6V-16V)
Power consumption	Brake light : 1.5W Rear light : 0.6W	0.6W
Brake Warning	YES	N/A
Emergency Alert	YES	N/A
Crash Alert	YES	N/A
Cable diameter	Ø 3mm	Ø 3mm
Cable length	1400mm	1400mm
IP rating	IP56	IP56
Operating temperature (°C)	-25~+50	-25~+50
Material	Plastic	Plastic
Weight (w/o cable)	17g	17g
Dimension (WXHXL)	70 x 21 x 14.7 mm	70 x 21 x 14.7 mm
Mounting option	50mm rack holder	50mm rack holder
Reflector	Integrated Z-reflector	Integrated Z-reflector
Compliance	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2646	~ K 2646

TA-KA / TA-KS

- Carrier integrated rear light with 45000 mcd highly efficient output (TA-KA)
- 240-degree wide visibility
- Includes red LED brake light (TA-KA)
- Chamfered edges to prevent damage on side
- Designed for bicycle's rear carriers (50mm & 80mm)
- IP56- Protects against high pressure water or dust ingress
- For 25km e-bike / EPAC
- K-Mark / ISO-6742 & EN-15194-CE compliance

45000 mcd | 7200 mcd | 6/12 V | IP 56 | Side View | StVZO

Specification

Model name	TA-KA	TA-KS
Model no.	TKACE	TKSCE
S/N	B06	B05
Light output	Brake light : 45000mcd / 30 lumens Rear light : 8000mcd / 15 lumens	7200mcd / 15 lumens
Optical technology	LTi	LTi
Light source	LED *2	LED *1
Input voltage (DC)	12V (6V - 16V)	12V (6V - 16V)
Power consumption	Brake light : 4.3W Rear light : 0.5W	0.5W
Brake Warning	YES (cable control)	N/A
Cable diameter	Ø 3mm / 1-3 pins	Ø 3mm / 1-2 pins
Cable length	1700mm	1400mm
IP rating	IP56	IP56
Operating temperature (°C)	-25~+70	-25~+70
Material	Plastic	Plastic
Weight (w/o cable)	31g	33g
Dimension (WXHXL)	125 x 13.5 x 21 mm	125 x 13.5 x 21 mm
Mounting option	50mm & 80mm rack holder	50mm & 80mm rack holder
Reflector (optional)	N/A	N/A
Compliance	CE / RoHS / REACH / Prop 65	CE / RoHS / REACH / Prop 65
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 1929	~ K 1930

TS-RK

- 7200 mcd highly efficient rear light
- 240-degree wide visibility
- Designed for bicycle's rear carriers (50mm & 80mm)
- IP56- Protects against high pressure water or dust ingress
- For 25km e-bike / EPAC
- K-Mark / ISO-6742 & EN-15194-CE compliance

Specification

Model name	TS-RK
Model no.	TKSE-RR800 / TKSE-RR500
S/N	B02(RR800) / B01(RR500)
Light output	7200mcd / 20 lumens
Optical technology	LTi
Light source	LED *4
Input voltage (DC)	6V (5V - 16V)
Power consumption	0.6W
Cable diameter	Ø 3mm
Cable length	1400mm
IP rating	IP56
Operating temperature (°C)	-25~+70
Material	Plastic
Weight (w/o cable)	TKSE-RR800: 23g TKSE-RR500: 20g
Dimension (WXHXL)	TKSE-RR800 : 96 x 18 x17 mm TKSE-RR500 : 65 x 18 x17 mm
Mounting option	TKSE-RR800: 80mm rack holder TKSE-RR500: 50mm rack holder
Reflector (optional)	RF2
Compliance	CE / RoHS / REACH / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 1693

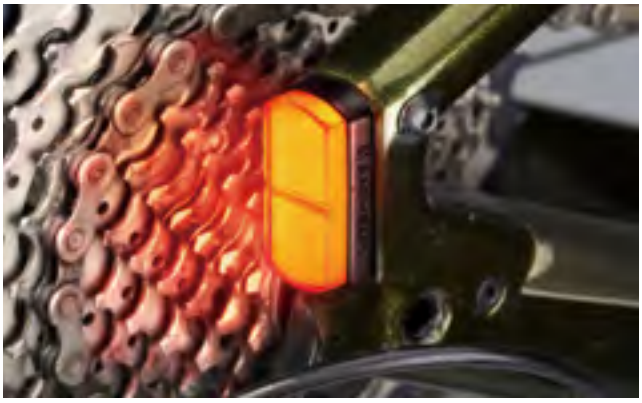
Seatpost Solution

TSV Seatpost Tail Light

Options: TSV-SP

TSV-SP

- The compact and sleekly designed TSV tail light delivers a wide, 240-degree beam visibility that ensures you're seen from all angles, day or night
- Compliant with German StVZO standards, the TSV can be easily mounted in multiple configurations and allows for both vertical and horizontal installations, seamlessly integrate with your bike's existing components
- The eccentric holder and bevel light housing allow you to easily integrate the light with the existing components on your frame, handlebars, or seatpost for a clean, cohesive look



Specification

Model name	TSV-SP
Model no.	TSV
S/N	0031
Light output	2500mcd / 10 lumens
Optical technology	
Light source	LED *10
Input voltage (DC)	6V (5V - 16V)
Power consumption	0.65W
Cable diameter	Ø 3mm
Cable length	1400mm
IP rating	IP56
Operating temperature (°C)	-25~+50
Material	Plastic
Weight (w/o cable)	18g (w/o bracket)
Dimension (WXHXL)	17.1 x 37 x 26 mm (w/o bracket)
Mounting option	TSV-SP316 : Ø 31.6 & 30.9mm seat post TSV-SP272 : Ø 27.2mm seat post
Reflector (optional)	N/A
Compliance	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 2550

TS-SP

Available for
Ø 27.2 / 30.9 / 31.6mm seat posts

- 7200 mcd highly efficient rear light
- 240-degree wide visibility
- Designed for Ø 27.2 | 30.9 | 31.6mm seat posts
- IP56- Protects against high pressure water or dust ingress
- For 25km e-bike / EPAC
- K-Mark / ISO-6742 & EN-15194-CE compliance

Specification

Model name	TS-SP
Model no.	TKSESP1-316 / TKSESP1-272
S/N	B03
Light output	7200mcd / 20 lumens
Optical technology	LTi
Light source	LED *4
Input voltage (DC)	6V (5V - 16V)
Power consumption	0.6W
Cable diameter	Ø 3mm
Cable length	1400mm
IP rating	IP56
Operating temperature (°C)	-25~+70
Material	Plastic
Weight (w/o cable)	18g (w/o bracket)
Dimension (WXHXL)	38 x 18 x 24 mm (w/o bracket)
Mounting option	TKSESP1-316 : Ø 31.6 & 30.9mm seat post TKSESP1-272 : Ø 27.2mm seat post
Reflector (optional)	N/A
Compliance	CE / RoHS / REACH / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 1693

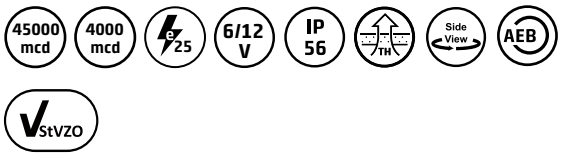
Fender Solution

TZV / TZVB

The TZV is a sleek, fender-integrated tail light solution designed for optimal visibility and seamless integration. Featuring a built-in Z-reflector and a 30-degree mounting angle, it blends effortlessly with the fender's shape, creating a streamlined and efficient lighting setup for bicycles.
Available in two models:

- TZV – K-Mark certified taillight for standard rear visibility
- TZVB – K-Mark certified taillight with an added brake warning function for enhanced safety

With its precision-engineered design, the TZV provides a reliable and stylish lighting solution, ensuring a safer ride in any condition.



Specification

Model name	TZVB	TZV
Model no.	TZVB	TZV
S/N	0041	0041-1
Light output	Brake light: 45000mcd / 25 lumens Rear light: 4000mcd / 13 lumens	4000mcd / 13 lumens
Optical technology		
Light source	LED*3	LED*2
Input voltage (DC)	12V(6V-16V)	12V(6V-16V)
Power consumption	Brake light : 1.5W Rear light : 0.6W	0.6W
Brake Warning	YES	N/A
Emergency Alert	YES	N/A
Crash Alert	YES	N/A
Cable diameter	Ø 3mm	Ø 3mm
Cable length	1400mm	1400mm
IP rating	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50
Material	Plastic	Plastic
Weight (w/o cable)	17g	17g
Dimension (WXHXL)	26.7 x 75 x 13 mm	26.7 x 75 x 13 mm
Mounting option	Bicycle fender	Bicycle fender
Reflector	Integrated Z-Reflector	Integrated Z-Reflector
Compliance	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2647	~ K 2647

TS-FD

- 7200 mcd highly efficient rear light
- 240-degree wide visibility
- Designed for bicycle's rear fender
- IP56- Protects against high pressure water or dust ingress
- For 25km e-bike / EPAC
- K-Mark / ISO-6742 & EN-15194-CE compliance

Specification

Model name	TS-FD
Model no.	TKSEFD
S/N	B03
Light output	7200mcd / 20 lumens
Optical technology	LTi
Light source	LED *4
Input voltage (DC)	6V (5V - 16V)
Power consumption	0.6W
Cable diameter	Ø 3mm
Cable length	1400mm
IP rating	IP56
Operating temperature (°C)	-25~+70
Material	Plastic
Weight (w/o cable)	18g (w/o adapter)
Dimension (WXHXL)	38 x 18 x 24 mm (w/o adapter)
Mounting option	Bicycle fender
Reflector (optional)	N/A
Compliance	CE / RoHS / REACH / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 1693

TL-FD

- Illuminates 20 lumens of lucent light
- Integrated solution with bicycle fender
- Wide visibility gives great lucent light from all viewing
- IP56- Protects against high pressure water or dust ingress
- For 25km e-bike / EPAC
- K-Mark & EN-15194-CE compliance

Specification

Model name	TL-FD
Model no.	TLFD
S/N	0005
Light output	7200mcd / 20 lumens
Optical technology	TL-K
Light source	LED*16 (Red)
Input voltage (DC)	6V (5V - 16V)
Power consumption	0.6W
Cable diameter	Ø 3mm
Cable length	1400mm
IP rating	IP56
Operating temperature (°C)	-25~+50
Material	Plastic
Weight (w/o cable)	11g
Dimension (WXHXL)	16.3 x 89.6 x 12.9 mm (w/o bracket)
Mounting option	Bicycle fender
Reflector (optional)	N/A
Compliance	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 2149

Battery Light

ATS-B Rechargeable Headlight Series

ATS-B delivers powerful, glare-free illumination with advanced ATIR optics, smart auto-dimming, and memory function. Long runtime, USB-C charging, and charging while in use ensure reliable performance, while tool-free mounting and durable construction provide convenience and confidence on every ride.

Options: ATS-B100/ATS-B1000

Battery Light Overview

Headlight

	ATS-B1000	ATS-B100
Light Output	95 Lux / 1000 Lumens	100 Lux / 700 Lumens
Beam Type	Low	Low
Beam Width @5M	6.5m	5.5m
Beam Width @10M	9m	8.5m
Visibility Distance	200m	200m
Power Source		
E-bike System: 12V		
E-bike System: 6V		
Battery	●	●
Environment		
Daytime/ Sunrise	●	●
Nighttime/ Sunset	●	●
Fog/ Rain/ Snow	●	●
Rider Scenario		
City/ Urban Area	●	●
Rural Area	●	●
Mountain Trails		
Legal Requirement		
K-mark		●
E-mark		

Tail Light

	NTL01	NTL03	TB01	TB02	TB03	TB04
Brightness						
mcd		5000/ 2600			5500/ 2500	40000/ 5500/ 2500
lumens	20	15/6	35	90/35	20/10	90/20/10
Beam Angle						
	240°	240°	240°	240°	240°	240°
Visible From						
Meter		230 /170			240 /160	640/240 /160
Power Source						
DC 12V						
DC 6V						
Battery	●	●	●	●	●	●
Placement						
Carrier						
Seatpost	●	●	●	●	●	●
Fender						
Legal Requirement						
K-mark		●			●	●
ISO-6742		●			●	●
International	●		●	●		

ATS-B Rechargeable Headlight

The ATS-B Series is a high-performance aluminum USB-C rechargeable light designed with a smart ambient sensor and multiple mounting options.

- ATIR Precision Optics delivering up to 1000 lumens (ATS-B1000) or 100 lux / 700 lumens (ATS-B100) with a uniform beam pattern.
- Enhanced Visibility with up to 9 m (ATS-B1000) beam width, 200 m beam distance, and a smart ambient sensor for automatic brightness adjustment.
- USB-C efficient Charging with charge-while-use capability and runtime up to 160 hrs (ATS-B1000) / 15 hrs (ATS-B100).
- Flexible Mounting System compatible with GoPro® and Garmin® mounts, featuring tool-free quick release and 5-position adjustment.
- IP56- Protest against high pressure water or dust ingress.
- Certified Safety & Compliance: StVZO (ATS-B100), CE, ROHS, and REACH certified for quality and regulatory assurance.

Compatiable with GoPro

Garmin style mount

Power Indicator with Long Runtime up to 15 hrs (ATS-B100) / 160 hrs (ATS-B1000)

USB-C Charging for added convenience

Tool-free quick-release lock

Specification

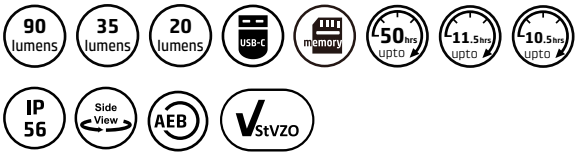
Model name	ATS-B1000	ATS-B100
Model no.	ATS-B01	ATS-B03
S/N	0046-1	0046
Mode / brightness	High: 1000 lumens Standard: 620 lumens Eco: 350 lumens Auto: 620-350 lumens Day Flash :250 lumens Night Flash: 450 lumens Eco Flash: 100 lumens	High : 100 lux / 700 lumens Standard : 70 lux / 500 lumens Low : 45 lux / 380 lumens Eco : 20 lux / 210 lumens Auto : 20-70 lux / 210-500 lumens
Optical technology	ATIR	ATIR
Light source	LED*3	LED*3
Power source	Battery (3.7V/ 5000mAh)	Battery (3.7V/ 5000mAh)
Runtime	High: 1.5 hours Standard: 3 hours Eco: 13 hours Day Flash : 80 hours Night Flash: 20 hours Eco Flash: 160 hours	High: 1.5 hours Standard: 3 hours Low: 5 hours Eco: 15 hours
Charge time	3.5 hours	3.5 hours
Charge required	USB-C, 5V 2A	USB-C, 5V 2A
Low power indicator	Yes	Yes
Charging indicator	Yes	Yes
Auto Light Sensor	Yes	Yes
Memory Function	Yes	Yes
IP rating	IP56	IP56
Operating temperature (°C)	-10 ~ +50	-10 ~ +50
Material	Aluminum	Aluminum
Weight (w/o cable)	203g	203g
Dimension (WXHXL)	32.5 x 33 x 121 mm	32.5 x 33 x 121 mm
Mounting bracket	GoPro / Garmin	GoPro / Garmin
Compliance	CE / RoHS / REACH	CE / RoHS / REACH
Type of approcal	N/A	StVZO-K / ISO 6742
Approval number	N/A	~ K 2775

TB Rechargeable Tail Light

The TB Series combines practicality, durability, and refined design—making it a reliable and stylish lighting solution for cyclists.

Key features include:

- Seamless Design & Easy Mounting
  - Sleek, compact profile integrates smoothly with bike aesthetics
  - Magnetic mounting system ensures secure attachment
  - Compatible with both round and aero tubing



Easy attaché and lock tight

Built-in charging cord

Fits 70°–90° seatpost mounting angles

Specification

Model name	TB01
Model no.	TB01
S/N	0044
Mode / brightness	High : 35 lumens Standard : 2 lumens Strobe : 18 lumens Flash : 10 lumens Eco : 2 lumens
Light source	LED*18 (Red)
Power source	Battery (3.7V/ 400mAh)
Runtime	High: 2.5 hours Standard: 20 hours Strobe: 12 hours Flash: 35 hours Eco: 50 hours
Charge time	2.5 hours
Charge required	Built-in USB-C, 5V 1A
Low power indicator	Yes
Charging indicator	Yes
Brake Warning	N/A
Crash Alert	N/A
Memory Function	Yes
IP rating	IP56
Operating temperature (°C)	-10 ~ +50
Material	Plastic
Weight (w/o cable)	27g
Dimension (WXHXL)	20 x 77.7 x 21.7 mm (w/o bracket)
Mounting bracket	Universal ø 22.2-35mm
Compliance	CE / RoHS / REACH
Type of approcal	N/A
Approval number	N/A

- Effortless Charging & Long-Lasting Battery
  - Built-in Type-C plug with flexible cable for easy charging, no extra cables needed
  - Upgraded battery offers up to 50 hours of runtime (international version)
- Smart Brake Sensor: Built-in auto sensor increases brightness fivefold during hard braking for enhanced safety
- Versatile Lighting Modes: Multiple modes to suit various riding conditions and preferences
- Weather Protection: IP56 rating protects against dust and high-pressure water sprays
- Mode memory function: Automatically recalls the last used setting for added convenience
- Certified Safety & Regulatory Compliance
  - Compliant with EU Regulation 2023/1542
  - Meets German StVZO standards for road safety
  - RoHS & REACH tested

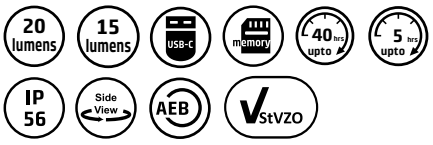
Specification

Model name	TB02	TB03	TB04
Model no.	TB02	TB03	TB04
S/N	0045	0044-1	0045-1
Mode / brightness	High : 35 lumens Standard : 2 lumens Brake : 5-90 lumens Strobe : 18 lumens Flash : 10 lumens Eco : 2 lumens	High : 5500mcd / 20 lumens Standard : 2500mcd / 10 lumens	High : 5500mcd / 20 lumens Standard : 2500mcd / 10 lumens Standard+Brake light : 2500-40000mcd / 10-90 lumens High+Brake light : 5500-40000mcd / 20-90 lumens
Light source	LED*22 (Red)	LED*18 (Red)	LED*22 (Red)
Power source	Battery (3.7V/ 400mAh)	Battery (3.7V/ 400mAh)	Battery (3.7V/ 400mAh)
Runtime	High: 2.5 hours Standard: 20 hours Strobe: 12 hours Flash: 35 hours Eco: 50 hours	High : 5.5 hours Standard : 11.5 hours	High : 5 hours Standard : 10.5 hours
Charge time	2.5 hours	2.5 hours	2.5 hours
Charge required	Built-in USB-C, 5V 1A	Built-in USB-C, 5V 1A	Built-in USB-C, 5V 1A
Low power indicator	Yes	Yes	Yes
Charging indicator	Yes	Yes	Yes
Brake Warning	Yes	N/A	Yes
Crash Alert	Yes	N/A	N/A
Memory Function	Yes	Yes	Yes
IP rating	IP56	IP56	IP56
Operating temperature (°C)	-10 ~ +50	-10 ~ +50	-10 ~ +50
Material	Plastic	Plastic	Plastic
Weight (w/o cable)	27g	27g	27g
Dimension (WXHXL)	20 x 77.7 x 21.7 mm (w/o bracket)	20 x 77.7 x 21.7 mm (w/o bracket)	20 x 77.7 x 21.7 mm (w/o bracket)
Mounting bracket	Universal ø 22.2-35mm	Universal ø 22.2-35mm	Universal ø 22.2-35mm
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH
Type of approcal	N/A	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	N/A	~K 2644	~K 2644

NTL Rechargeable Lights

Up to 20 lumens and 40 hours run-time

- Auto-Brake Alert: G-sensor instantly triggers 5x brightness boost (up to 20 lm) on deceleration.(NTL01)
- Crash Alert: Automatically activates emergency flashing upon bike tilt/fall.(NTL01)
- High Brightness & Runtime: Equipped with a 300 mAh battery for optimal performance and extended use.
- Illuminates up to 20 lumens & 40 hours run-time.
- Multiple light modes with memory function for various riding scenarios.
- Integrated USB C charging cord for convenient, cable-free power-up.
- Sleek Design & Easy Magnetic Mounting: Sleek, compact design with a secure magnetic mounting system for effortless installation and a clean look on any bike.
- Certified Safety & Compliance: K-Mark (NTL03), CE, ROHS, and REACH certified for quality and regulatory assurance.



Fits 70°–90° seatpost mounting angles

Built-in charging cord

Easy attaché and lock tight

Specification

Model name	NTL01	NTL03
Model no.	NTL01	NTL03
S/N	0061	0061-1
Light output	High: 20 lumens Standard: 2 lumens Brake : 2-20 lumens Strobe: 12 lumens Flash: 6 lumens Eco: 2 lumens	High : 5000mcd / 15 lumens Standard : 2600mcd / 6 lumens
Optical technology	N/A	TL-K
Light source	LED*16 (Red)	LED*16 (Red)
Power source	Battery (3.7V/ 300mAh)	Battery (3.7V/ 300mAh)
Runtime	High: 3.5 hours Standard: 18 hours Strobe: 13 hours Flash: 38 hours Eco: 40 hours	High : 2.8 hours Standard : 5 hours
Charge time	1.5 hours	1.5 hours
Charge require	Built-in USB-C, 5V 1A	Built-in USB-C, 5V 1A
Low power indicator	Yes	Yes
Charging indicator	Yes	Yes
Brake Warning	Yes	N/A
Emergency Alert	Yes	N/A
Crash Alert	Yes	N/A
Memory Function	Yes	Yes
Hibernation	Yes	N/A
IP rating	IP56	IP56
Operating temperature (°C)	-10 ~ +50	-10 ~ +50
Material	Plastic	Plastic
Weight (w/o bracket)	21g	21g
Dimension (WXHXL)	15.5 x 74.3 x 20mm (w/o bracket)	15.5 x 74.3 x 20mm (w/o bracket)
Mounting bracket	Universal ø 22.2-35mm	Universal ø 22.2-35mm
Compliance	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	N/A	StVZO-K / ISO 6742
Approval number	N/A	~ K 2149

Safety Mirror

- Universal Application: Flexible strap fits Ø22.2 - Ø35mm handlebars and aerotubea, suitable for bicycles, cargo bikes, and wheelchairs
- Tool-Free Mounting: Quick installation enables instant setup on drop bars, flat bars, or frames without tools
- 360° Rotatable Design: Adjust freely to achieve the optimal viewing angle for any riding posture
- Wide-Angle Lens: Expands rear visibility and minimizes blind spots for enhanced rider awareness

mount: Ø 22.2 ~ 35 mm

Material: Plastic
Model No: MIR01

Accessories

For Headlights

Headlebar Bracket

mount: Ø31.8 & 35mm / side

Material: Plastic
Model No: PHB31850

mount: Ø31.8 & 35mm / universal

Material: Plastic
Model No: PHBU31850

GoPro Solution

GoPro style mount for BOSCH Intuvia & Nyon (~MY20)

Material: Plastic
Model No: GO-B01

Garmin Solution

Garmin style Universal handlebar bracket

Material: Plastic
Model No: H03

Fork Mount

2 axles fork mount

Material: Aluminum
Model No: FK2A

Universal fork mount

Material: Plastic
Model No: FKPL

Suntour NEX-E, NEX, CR8

Material: Plastic
Model No: STU-1

Suntour NCX-E

Material: Plastic
Model No: STU-2

Suntour MOBIE34/45/25/ A32, XCR32, XCM32

Material: Plastic
Model No: STU-3

FOX AWL

Material: Plastic
Model No: STU-5

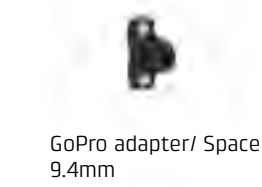
Adapter

Stem (face cap) adapter

Material: Plastic
Model No: AP1

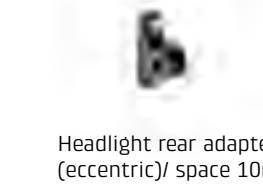
Headlight rear adapter/ space 9.4mm (GoPro compatible)

Material: Plastic
Model No: AP2



GoPro adapter/ Space 9.4mm

Material: Plastic
Model No: AP2B



Headlight rear adapter (eccentric)/ space 10mm

Material: Plastic
Model No: AP2A

Front fender adapter

Material: Plastic
Model No: AP3A

Garmin adapter

Material: Plastic
Model No: H02

Mount holder

Material: Plastic
Model No: H01

For Tail Lights

Seat Post Mount

mount: Ø 27.2mm

Material: Plastic
Model No: SP1-272

mount: Ø 31.6 & 30.9mm

Material: Plastic
Model No: SP1-316

Fender Mount

Rear fender adapter

Material: Plastic
Model No: FD-CNT

Seat Stay & Seat Post

SY bracket / mount: seat stay & seat post

Material: Plastic
Model No: SY1

Others

Reflector

K-reflector (front)

Material: Plastic
Model No: RF1

K-reflector + adapter (w/machine screw)

Material: Plastic
Model No: RFD

K-reflector + adapter (w/self-tapping screw)

Material: Plastic
Model No: RFDT

Z-reflector (rear)

Material: Plastic
Model No: RF2

Switch

High beam cable 190mm

Material: Plastic
Model No: CS3

High beam cable 540mm

Material: Plastic
Model No: CS4

Switch bracket / mount : Ø 22.2mm

Material: Plastic
Model No: SR222

Switch bracket universal

Material: Plastic
Model No: SRU

Connector

2-2 pin moisture-resistant self-sealing connector

Material: Plastic
Model No: CT22

Specifications Overview

E-Bike Headlights

MODEL NAME	RXW-2900	AEW-230	AC-210	AC-150
Model no.	RXW2900	HKAEW230	AC210D / AC210S / AC210U	AC150D / AC150S / AC150U
S/N	0025	E10	10015	0023
Light output	High beam: 200 lux / 2900 lumens (28W) 170 lux / 2425 lumens (22W) 140 lux / 1970 lumens (17W) Low beam: 140 lux / 1665 lumens Day Light: 60 lux / 650 lumens	High beam: 230 lux / 950 lumens Low beam: 170 lux / 550 lumens	High beam: 210 lux / 700 lumens Low beam: 140 lux / 460 lumens	High beam: 150 lux / 600 lumens Low beam: 90 lux / 380 lumens
Optical technology	RX Pro	MTi Pro	MTi Plus	MTi Plus
Light source	LED* 12	LED*4	LED *6	LED *4
Input voltage (DC)	12V (11V - 16V)	12V (9V - 16V)	12V (11V - 16V)	12V (6V - 16V)
Power consumption	High beam : 28W / 22W / 17W Low beam : 13.5W Day Light: 5.5W	High beam: 15W max. Low beam: 7.3W	High beam: 16W max. Low beam: 10W	High beam: 13W max. Low beam: 6W
Cable diameter	Power: Ø 4mm Switch: Ø 2.55mm	Power: Ø 4mm Switch: Ø 2.55mm	Power: Ø 4mm Switch: Ø 2.55mm	Power: Ø 4mm Switch: Ø 2.55mm
Cable length	Power: 1400mm Switch: 300mm	Power: 1400mm Switch: 300mm	Power: 1400mm Switch: 300mm / 650mm	Power: 1400mm Switch: 300mm / 650mm
IP rating	IP56	IP56	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +70	-25 ~ +50	-25 ~ +50
Material	Aluminum	Aluminum	Aluminum	Aluminum
Weight (w/o cable)	155g	165g	128g	128g
Dimension (WXHXL)	83 x 50.8 x 52 mm	63.1 x 49.9 x 52 mm	Ø 46 x 52 mm	Ø 46 x 52 mm
Switch bracket / mount	Ø 22.2mm	Ø 22.2mm	Ø 22.2mm	Ø 22.2mm
Reflector (optional)	N/A	RFD	RF1 / RFD	RF1 / RFD
Compliance	CE / RoHS / REACH	CE / RoHS / REACH / Prop 65	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2509	~ K 1973	~ K 2510	~ K 1837

MODEL NAME	ACN-1200	SC-160	SCN-1700	SEC-150
Model no.	ACN1200D / ACN1200S / ACN1200U	SC160D / SC160S / SC160U	SCN1700D / SCN1700S / SCN1700U	SEC150D / SEC150S / SEC150U
S/N	0032	0020	0033	0028
Light output	High beam : 155 lux /1200 lumens Low beam : 130 lux / 990 lumens	160 lux/ 600 lumens	130 lux / 1700 lumens	150 lux / 500 lumens
Optical technology	MTi Plus	ATIR	ATIR	MTi
Light source	LED* 12	LED *3	LED*6	LED *3
Input voltage (DC)	12V (11 V - 16V)	12V (11V - 16V)	12V (11V - 16V)	12V (11V - 16V)
Power consumption	High beam : 18W max. Low beam : 11W	11W	18W max.	10W
Cable diameter	Power : Ø 4mm Switch : Ø 2.55mm	Ø 4mm	Ø 4mm	Ø 4mm
Cable length	Power: 1400mm Switch: 300mm / 650mm	1400mm	1400mm	1400mm
IP rating	IP56	IP56	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50	-25 ~ +50	-25 ~ +50
Material	Aluminum	Aluminum	Aluminum	Aluminum
Weight (w/o cable)	128g	115g	115g	90g
Dimension (WXHXL)	Ø 46 x 52 mm	Ø 46 x 40.8 mm	Ø 46 x 40.8 mm	Ø 43.5 x 46.9 mm
Switch bracket / mount	Ø 22.2mm	N/A	N/A	N/A
Reflector (optional)	RF1 / RFD	RF1 / RFD	RF1 / RFD	RF1 / RFD
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	N/A	StVZO-K / ISO 6742	N/A	StVZO-K / ISO 6742
Approval number	N/A	~ K 2581	N/A	~ K 2510

MODEL NAME	SEC-110	ATS-E85	ATS-E850	SE-90
Model no.	SEC110D / SEC110S / SEC110U	ATS-E03UP / ATS-E03LO	ATS-E01UP / ATS-E01LO	SE90D / SE90U
S/N	10019	0047(UP) / 0047-2(LO)	0047-3(UP) / 0047-1(LO)	0021
Light output	110 lux / 300 lumens	85 lux / 550 lumens	90 lux / 850 lumens	90 lux / 200 lumens
Optical technology	MTi	ATIR	ATIR	MTi
Light source	LED* 2	LED* 3	LED* 3	LED* 1
Input voltage (DC)	12V (8V - 16V)	12V (11V - 16V)	12V (11V - 16V)	6V (5V - 16V)
Power consumption	8W	9W	9W	5W
Cable diameter	Ø 4mm	Ø 4mm	Ø 4mm	Ø 4mm
Cable length	1400mm	1400mm	1400mm	1400mm
IP rating	IP56	IP56	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50	-25 ~ +50	-25 ~ +50
Material	Aluminum / Plastic	Aluminum	Aluminum	Plastic
Weight (w/o cable)	85g	60g	60g	66g
Dimension (WXHXL)	Ø 43.5 x 46.9 mm	32.5 x 33 x 51 mm	32.5 x 33 x 51 mm	Ø 43.5 x 49 mm
Switch bracket / mount	N/A	N/A	N/A	N/A
Reflector (optional)	RF1 / RFD	RFD	RFD	RF1
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742	N/A	StVZO-K / ISO 6742
Approval number	~ K 2511	~ K 2775	N/A	~ K 2379

MODEL NAME	SE-90A	SE-70	RX-E90
Model no.	SE90AD	SE70D / SE70U	RXE90
S/N	0024	0018	RX02
Light output	Standard: 90 lux / 200 lumens Day Light: 30 lux / 50 lumens	70 lux/ 150 lumens	High beam : 90 lux / 400 lumens Low beam : 50 lux / 200 lumens
Optical technology	MTi	MTi	RX Plus
Light source	LED* 1	LED* 1	LED*2
Input voltage (DC)	6V (5V ~ 16V)	6V (5V ~ 16V)	6V (5V ~ 16V)
Power consumption	Standard: 5W Day Light: 1.5W	4W	High beam: 5.8W max. Low beam: 2.9W
Cable diameter	Ø 4mm	Ø 4mm	Power: Ø 4mm Switch: Ø 2.55mm
Cable length	1400mm	1400mm	Power: 1400mm Switch: 300mm / 650mm
IP rating	IP56	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50	-25 ~ +70
Material	Plastic	Plastic	Aluminum
Weight (w/o cable)	67g	66g	37.5g
Dimension (WXHXL)	Ø 43.5 x 49 mm	Ø 43.5 x 49 mm	39.2 x 52.6 x 48.8 mm
Switch bracket / mount	N/A	N/A	Ø 22.2mm
Reflector (optional)	RF1	RF1	RFD
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH / Prop 65
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2379	~ K 2379	~ K 2047

MODEL NAME	AE-200
Model no.	HEAE200D / HEAE200U / HEAE200R
S/N	AE200
Light output	High beam (Driving beam): 600 lumens Low beam (Passing beam): 500 lumens
Optical technology	MTi Plus
Light source	LED *4
Input voltage (DC)	12V (9V ~ 16V)
Power consumption	High beam: 13W max / Low beam: 9.6W
Cable diameter	Power: Ø 4mm / Switch: Ø 2.55mm
Cable length	Power: 1400mm / Switch: 300mm / 650mm
IP rating	IP56
Operating temperature (°C)	-25 ~ +70
Material	Aluminum
Weight (w/o cable)	120g
Dimension (WXHXL)	Ø 46 x 59.5 mm
Switch bracket / mount	Ø 22.2mm
Reflector (optional)	RF1 / RFD
Compliance	CE / RoHS / REACH / Prop 65
Type of approval	UNECE R113 Class-B / ISO 6742
Approval number	E9 16897

MODEL NAME	RLX-100H	RLX-100	RLX-60
Model no.	RLX100H / RLX100HD / RLX100HUP	RLX100 / RLX100D / RLXD100UP	RLX60 / RLX60D / RLX60UP
S/N	0038 / 0060 / -	0043 / 0059 / -	0037 / 0058 / -
Light output	High beam : 100 lux / 320 lumens Low beam : 60 lux / 180 lumens	100 lux / 230 lumens	60 lux / 180 lumens
Optical technology	RX Plus	RX	RX
Light source	LED*2	LED*1	LED*1
Input voltage (DC)	12V (5V-16V)	12V (5V-16V)	12V (5V-16V)
Power consumption	High beam : 5.4W Low beam : 2.8W	4.8W	2.8W
Cable diameter	Power: Ø 4mm Switch: Ø 2.55mm	Ø 4mm	Ø 4mm
Cable length	Power: 1400mm Switch: 300mm / 650mm	1400mm	1400mm
IP rating	IP56	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50	-25 ~ +50
Material	Plastic	Plastic	Plastic
Weight (w/o cable)	45g / - / -	34g / - / -	34g / - / -
Dimension (WXHXL)	43.3 x 43.7 x 51.3 mm D:46 x 61.4 x 52.5 mm UP:43.7 x 44 x 56 mm	43.3 x 43.7 x 51.3 mm D:46 x 61.4 x 52.5 mm UP:43.7 x 44 x 56 mm	43.3 x 43.7 x 51.3 mm D:46 x 61.4 x 52.5 mm UP:43.7 x 44 x 56 mm
Switch bracket / mount	Ø 22.2mm	N/A	N/A
Reflector (optional)	RFDT D: RF1 UP:RFDT	RFDT D: RF1 UP:RFDT	RFDT D: RF1 UP:RFDT
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2615	~ K 2615	~ K 2615

E-Bike Taillights

MODEL NAME	TX3	TX3	TA-KA	TA-KS
Model no.	TX301	TX302	TKACE	TKSCE
S/N	0014	0014-1	B06	B05
Light output	Brake light : 80000mcd / 30 lumens Rear light : 2600mcd / 12 lumens	2500mcd / 10 lumens	Brake light: 45000mcd / 30 lumens Rear light: 8000mcd / 15 lumens	7200mcd / 15 lumens
Optical technology	TX3	TX3	LTi	LTi
Light source	LED*48	LED*46	LED*2	LED*1
Input voltage (DC)	12V (6V - 16V)	12V (6V - 16V)	12V (6V - 16V)	12V (6V - 16V)
Power consumption	Brake light : 2W Rear light : 0.6W	0.6W	Brake light: 4.3W Rear light: 0.5W	0.5W
Cable diameter	Ø 3mm	Ø 3mm	Ø 3mm / 1-3 pins	Ø 3mm / 1-2 pins
Cable length	1400mm	1400mm	1700mm	1400mm
Brake Warning	Yes	N/A	Yes (Cable control)	N/A
Emergency Alert	Yes	N/A	N/A	N/A
Crash Alert	Yes	N/A	N/A	N/A
IP rating	IP56	IP56	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50	-25 ~ +70	-25 ~ +70
Material	Plastic	Plastic	Plastic	Plastic
Weight (w/o cable)	36g	36g	31g	33g
Dimension (WXHXL)	124.4 x 20.4 x 16.8 mm	124.4 x 20.4 x 16.8 mm	125 x 13.5 x 21 mm	125 x 13.5 x 21 mm
Mounting option	TX3-compatible rack	TX3-compatible rack	50mm & 80mm rack holder	50mm & 80mm rack holder
Reflector (optional)	RF2	RF2	N/A	N/A
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH / Prop 65	CE / RoHS / REACH / Prop 65
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2450	~ K 2450	~ K 1929	~ K 1930

MODEL NAME	TSV-SP	TS-SP	TS-FD	TS-RK	TL-FD
Model no.	TSV	TKSESP1-316 TKSESP1-272	TKSEFD	TKSE-RR800 TKSE-RR500	TLFD
S/N	0031	B03	B03	B01 (RR500) / B02 (RR800)	0005
Light output	2500mcd / 10 lumens	7200mcd / 20 lumens	7200mcd / 20 lumens	7200mcd / 20 lumens	7200mcd / 20 lumens
Optical technology		LTi	LTi	LTi	TL-K
Light source	LED *10	LED *4	LED *4	LED *4	LED*16 (Red)
Input voltage (DC)	6V (5V -16V)	6V (5V - 16V)	6V (5V - 16V)	6V (5V - 16V)	6V (5V - 16V)
Power consumption	0.65W	0.6W	0.6W	0.6W	0.6W
Cable diameter	Ø 3mm	Ø 3mm	Ø 3mm	Ø 3mm	Ø 3mm
Cable length	1400mm	1400mm	1400mm	1400mm	1400mm
IP rating	IP56	IP56	IP56	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +70	-25 ~ +70	-25 ~ +70	-25~+50
Material	Plastic	Plastic	Plastic	Plastic	Plastic
Weight (w/o cable)	18g (w/o bracket)	18g (w/o bracket)	18g (w/o adapter)	TKSE-RR800: 23g TKSE-RR500: 20g	11g
Dimension (WXHXL)	17.1 x 37 x 26 mm (w/o bracket)	38 x 18 x 24 mm (w/o bracket)	38 x 18 x 24 mm (w/o adapter)	TKSE-RR800: 96 x 18 x17 mm TKSE-RR500: 65 x 18 x17 mm	16.3 x 89.6 x 12.9 mm (w/o bracket)
Mounting option	TSV-SP316 : Ø 31.6 & 30.9mm seat post TSV-SP272 : Ø 27.2mm seat post	TKSESP1-316: Ø 31.6 & 30.9mm seat post TKSESP1- 272: Ø 27.2mm seat post	Bicycle fender	TKSE-RR800: 80mm rack holder TKSE-RR500: 50mm rack holder	Bicycle fender
Reflector (optional)	N/A	N/A	N/A	RF2	N/A
Compliance	CE / RoHS / REACH	CE / RoHS / REACH / Prop 65	CE / RoHS / REACH / Prop 65	CE / RoHS / REACH / Prop 65	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2550	~ K 1693	~ K 1693	~ K 1693	~ K 2149

MODEL NAME	TZVB	TZV	TZHB	TZH
Model no.	TZVB	TZV	TZHB	TZH
S/N	0041	0041-1	0042	0042-1
Light output	Brake light : 45000mcd / 25 lumens Rear light : 4000mcd / 13 lumens	4000mcd / 13 lumens	Brake light : 55000mcd / 33 lumens Rear light : 10000mcd / 16 lumens	10000mcd / 16 lumens
Optical technology				
Light source	LED*3	LED*2	LED*4	LED*2
Input voltage (DC)	12V (6V-16V)	12V (6V-16V)	12V (6V-16V)	12V (6V-16V)
Power consumption	Brake light : 1.5W Rear light : 0.6W	0.6W	Brake light : 1.5W Rear light : 0.6W	0.6W
Cable diameter	Ø 3mm	Ø 3mm	Ø 3mm	Ø 3mm
Cable length	1400mm	1400mm	1400mm	1400mm
Brake Warning	Yes	N/A	Yes	N/A
Emergency Alert	Yes	N/A	Yes	N/A
Crash Alert	Yes	N/A	Yes	N/A
IP rating	IP56	IP56	IP56	IP56
Operating temperature (°C)	-25~+50	-25~+50	-25~+50	-25~+50
Material	Plastic	Plastic	Plastic	Plastic
Weight (w/o cable)	17g	17g	17g	17g
Dimension (WXHXL)	26.7 x 75 x 13 mm	26.7 x 75 x 13 mm	70 x 21 x 14.7 mm	70 x 21 x 14.7 mm
Mounting option	Bicycle fender	Bicycle fender	50mm rack holder	50mm rack holder
Reflector (optional)	Integrated Z-reflector	Integrated Z-reflector	Integrated Z-reflector	Integrated Z-reflector
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2647	~ K 2647	~ K 2646	~ K 2646

Battery Lights

MODEL NAME	ATS-B1000	ATS-B100	NTL01	NTL03
Model no.	ATS-B01	ATS-B03	NTL01	NTL03
S/N	0046-1	0046	0061	0061-1
Light output	High: 1000 lumens Standard: 620 lumens Eco: 350 lumens Auto: 350-620 lumens Day Flash :250 lumens Night Flash: 450 lumens Eco Flash: 100 lumens	High : 100 lux / 700 lumens Standard : 70 lux / 500 lumens Low : 45 lux / 380 lumens Eco : 20 lux / 210 lumens Auto : 20-70 lux / 210-500 lumens	High: 20 lumens Standard: 2 lumens Brake : 2-20 lumens Strobe: 12 lumens Flash: 6 lumens Eco: 2 lumens	High: 5000mcd / 15 lumens Standard: 2600mcd / 6 lumens
Optical technology	ATIR	ATIR		TL-K
Light source	LED*3	LED*3	LED*16 (Red)	LED*16 (Red)
Power source	Battery (3.7V/ 5000mAh)	Battery (3.7V/ 5000mAh)	Battery (3.7V/ 300mAh)	Battery (3.7V / 300mAh)
Runtime	High: 1.5 hours Standard: 3 hours Eco: 13 hours Day Flash : 80 hours Night Flash: 20 hours Eco Flash: 160 hours	High: 1.5 hours Standard: 3 hours Low: 5 hours Eco: 15 hours	High: 3.5 hours Standard: 18 hours Strobe: 13 hours Flash: 38 hours Eco: 40 hours	High : 2.8 hours Standard : 5 hours
Charge time	3.5 hours	3.5 hours	1.5 hours	1.5 hours
Charge require	USB-C, 5V 2A	USB-C, 5V 2A	Built-in USB-C, 5V 1A	Built-in USB-C, 5V 1A
Low power indicator	Yes	Yes	Yes	Yes
Charging indicator	Yes	Yes	Yes	Yes
Auto Light Sensor	Yes	Yes	N/A	N/A
Brake Warning	N/A	N/A	Yes	N/A
Emergency Alert	N/A	N/A	Yes	N/A
Crash Alert	N/A	N/A	Yes	N/A
Memory Function	Yes	Yes	Yes	Yes
Hibernation	N/A	N/A	Yes	N/A
IP rating	IP56	IP56	IP56	IP56
Operating temperature (°C)	-10 ~ +50	-10 ~ +50	-10 ~ +50	-10 ~ +50
Material	Aluminum	Aluminum	Plastic	Plastic
Weight (w/o bracket)	203g	203g	21g	21g
Dimension (WXHXL)	32.5 x 33 x 121 mm	32.5 x 33 x 121 mm	15.5 x 74.3 x 20mm	15.5 x 74.3 x 20mm
Mounting bracket	GoPro / Garmin	GoPro / Garmin	Universal ø 22.2-35 mm	Universal ø 22.2-35 mm
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	N/A	StVZO-K / ISO 6742	N/A	StVZO-K / ISO 6742
Approval number	N/A	~ K 2775	N/A	~ K 2149

Battery Lights

MODEL NAME	TB01	TB02	TB03	TB04
Model no.	TB01	TB02	TB03	TB04
S/N	0044	0045	0044-1	0045-1
Light output	High : 35 lumens Standard : 2 lumens Strobe : 18 lumens Flash : 10 lumens Eco : 2 lumens	High : 35 lumens Standard : 2 lumens Brake : 5-90 lumens Strobe : 18 lumens Flash : 10 lumens Eco : 2 lumens	High : 5500mcd / 20 lumens Standard : 2500mcd / 10 lumens	High : 5500mcd / 20 lumens Standard : 2500mcd / 10 lumens Standard+Brake light : 2500-40000mcd / 10-90 lumens High+Brake light : 5500-40000mcd / 20-90 lumens
Optical technology				
Light source	LED*18 (Red)	LED*22 (Red)	LED*18 (Red)	LED*22 (Red)
Power source	Battery (3.7V / 400mAh)	Battery (3.7V / 400mAh)	Battery (3.7V / 400mAh)	Battery (3.7V / 400mAh)
Runtime	High: 2.5 hours Standard: 20 hours Strobe: 12 hours Flash: 35 hours Eco: 50 hours	High: 2.5 hours Standard: 20 hours Strobe: 12 hours Flash: 35 hours Eco: 50 hours	High : 5.5 hours Standard : 11.5 hours	High : 5 hours Standard : 10.5 hours
Charge time	2.5 hours	2.5 hours	2.5 hours	2.5 hours
Charge require	Built-in USB-C, 5V 1A	Built-in USB-C, 5V 1A	Built-in USB-C, 5V 1A	Built-in USB-C, 5V 1A
Low power indicator	Yes	Yes	Yes	Yes
Charging indicator	Yes	Yes	Yes	Yes
Auto Light Sensor	N/A	N/A	N/A	N/A
Brake Warning	N/A	Yes	N/A	Yes
Emergency Alert	N/A	N/A	N/A	N/A
Crash Alert	N/A	Yes	N/A	N/A
Memory Function	Yes	Yes	Yes	Yes
Hibernation	N/A	N/A	N/A	N/A
IP rating	IP56	IP56	IP56	IP56
Operating temperature (°C)	-10 ~ +50	-10 ~ +50	-10 ~ +50	-10 ~ +50
Material	Plastic	Plastic	Plastic	Plastic
Weight (w/o bracket)	27g	27g	27g	27g
Dimension (WXHXL)	20 x 77.7 x 21.7 mm	20 x 77.7 x 21.7 mm	20 x 77.7 x 21.7 mm	20 x 77.7 x 21.7 mm
Mounting bracket	Universal ø 22.2-35 mm	Universal ø 22.2-35 mm	Universal ø 22.2-35 mm	Universal ø 22.2-35 mm
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	N/A	N/A	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	N/A	N/A	~ K 2644	~ K 2644

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LM-B60812