



# LEAVE THE DARKNESS BEHIND

2026 OE Range

OEM Range  
**CATALOGUE**

©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.

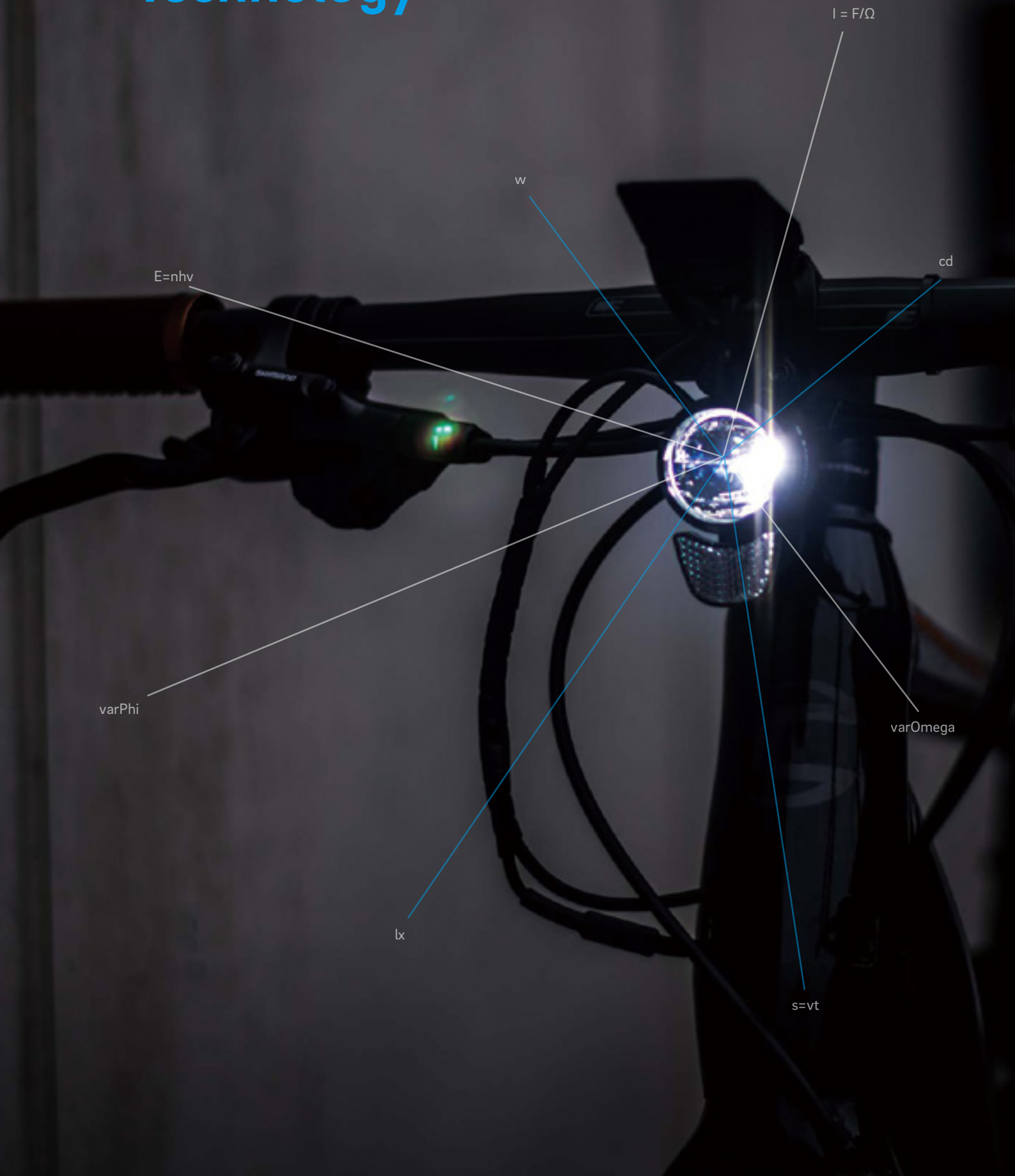
Our customers always expect a quick response- So we have service centers in both Europe & Asia, that allow us to provide quick and professional services to our partners.

## Our Prizes





# Optical Technology



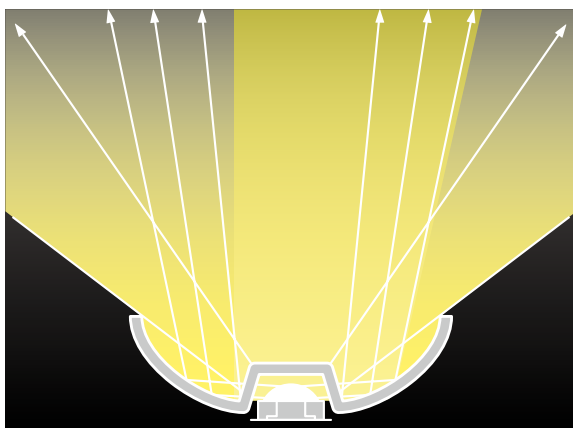
Litemove continues on developing innovative headlights and tail lights for electric bicycles. Optical performance is a crucial factor in our lighting design.

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.



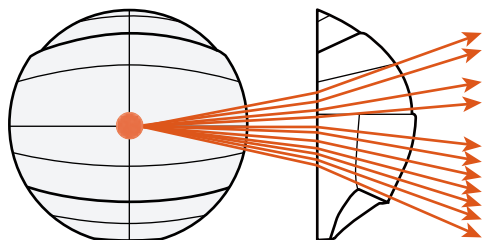
### Optical Excellence for Superior Performance

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

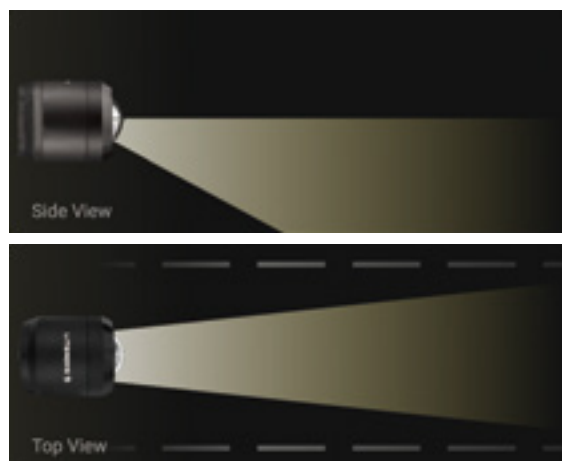
- ✓ Wider illumination for expansive road coverage.
- ✓ High lumens & lux for exceptional brightness.
- ✓ Uniform lighting distribution to eliminate glare and dark spots.
- ✓ Compact design for seamless integration into modern cycling systems
- ✓ Enhanced weather resistance for reliable performance in 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.

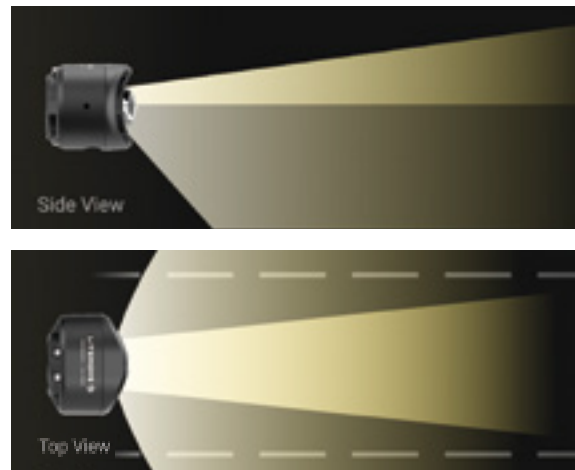
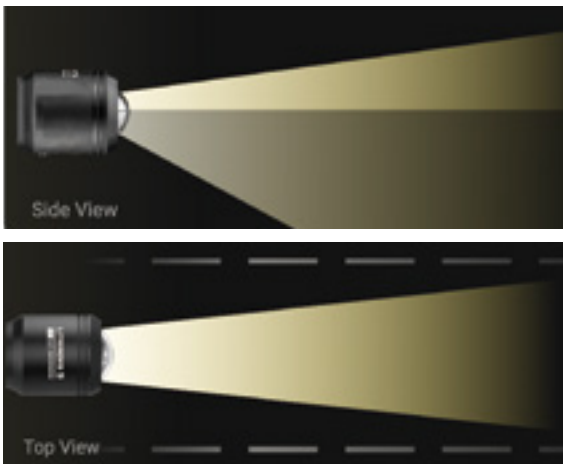


# MTi

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<sup>PLUS</sup>

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.

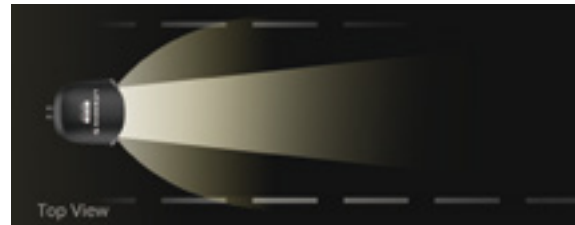
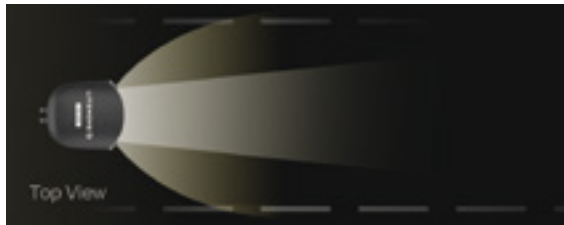
## MTi<sup>PRO</sup>

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



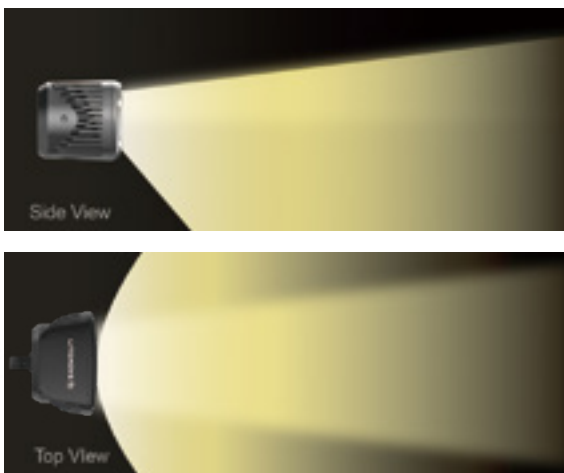
### RX

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<sup>PLUS</sup>

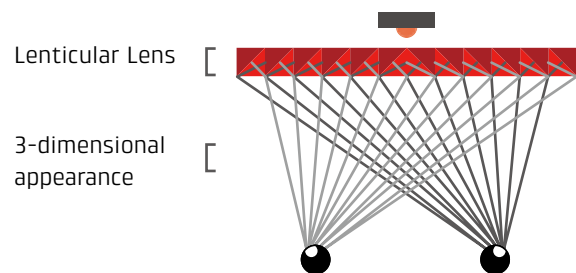
The RX Plus includes a dual light (high & low-beam) function for enhanced visibility for users to use. This feature provides a wide angle of consistent lighting, while providing a great distance of beam distribution. Best used for paths in the city and suburban roads in both daytime and nighttime. Its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

## LTi Series



### RX<sup>PRO</sup>

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.



Lenticular Lens [

3-dimensional appearance [

### LTi<sup>®</sup>

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.



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.



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.



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.



#### 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.



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



Aluminum material



Thermal conductive material for better heat flow



Electrically Power Assisted Cycle (EPAC)- 25km



Speed Pedelec- 45km



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



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.



Dual-light function:  
High & low-beam



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



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



Complies with EU/ECE Regulations



Ingress Protection rating that classifies the degrees of protection



Common types of USB connector.



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



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



Complies with German Road Traffic Licensing Regulations

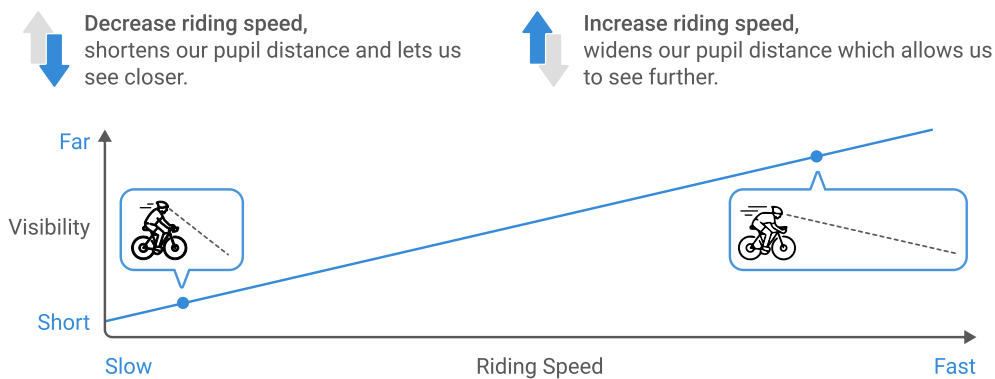
# Optical Safety Ideology



We care about your safety. Whether it's the environment or the speed of our ride, it all affects our 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.



## Lights On All-Time Decrease Accidents

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

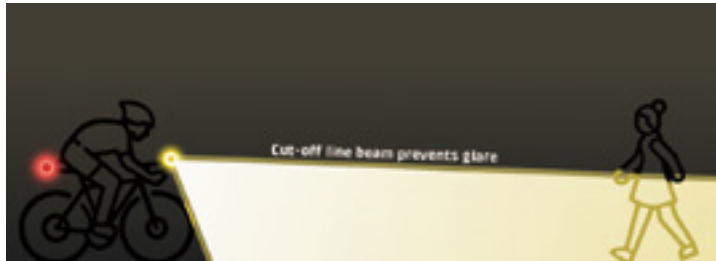


Decrease in accidents  
with lights on at all times



# Importance of Having Proper Lights on

Lights designed with cut-off line and proper brightness, prevents blinding 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 options (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.



51.980 1.120 1.150

52.520 13.380 821

# Headlight Solutions

For Electrically Power Assisted Cycles

49.000 8.400 569

51.230 7.600 811

48.900 9.190 316

# E-Bike Headlight Overview

	RXW-2900	AEW-230	AC-210	AC-150	ACN-1200	SC-160	SCN-1700	SEC-150
Brightness	140/200 Lux 1665/2900 lm	170 / 230 Lux	140 / 210 Lux	90 / 150 Lux	990 / 1200 Lumens	160 Lux 600 Lumens	1700 Lumens	150 Lux
Beam Type	Low / High (Wide)	Low / High (Wide)	Low / High	Low / High	Low / High	Low (Wide)	Low (Wide)	Low
Beam Width @5M	10m / 10m	10m	5.5m / 6m	4m / 4.5m	5m / 5m	7.5m	9m	5.5m
Beam Width @10M	11m / 11m	10m	10m / 10.5m	7m / 8m	8m / 9m	12m	12m	10m
Visibility Distance	280m	300m	300m	230m	230m	250m	230m	250m
Power Source								
E-bike System: 12V	●	●	●	●	●	●	●	●
E-bike System: 6V				●				
Environment								
Daytime/ Sunrise	●	●	●	●	●	●	●	●
Nighttime/ Sunset	●	●	●	●	●	●	●	●
Fog/ Rain/ Snow						●	●	●
Rider Scenario								
City/ Urban Area			●	●	●	●	●	●
Rural Area	●	●	●	●	●	●	●	●
Mountain Trails	●	●						
Legal Requirement								
K-mark	●	●	●	●		●		●
E-mark								

[illegible]



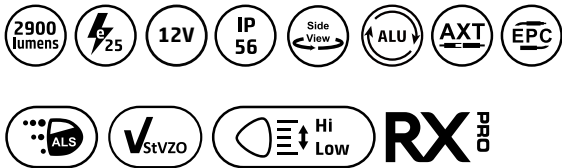
# RXW-2900



## 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
Cable diameter	Power: Ø 4mm Switch : Ø 2.55mm





## Specification

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



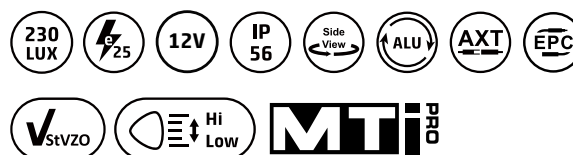
# AEW-230



## 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



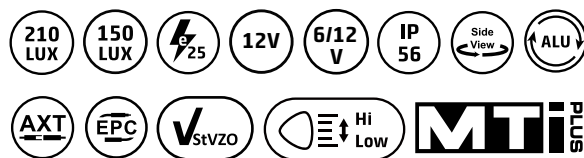
## Specification

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.

1200 lumens

12V

IP 56

Side View

ALU

AXT

Hi Low

MTi Plus

## 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



Our SC series are equipped with innovative ATIR optical lens, offering even beam distribution, great output performance in both lux and lumens. Together with engineered cooling system, this ensures consistent, high-performance output no matter how demanding the ride.



# SC-160



## 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



## Specification

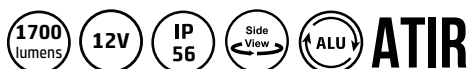
Model name	SC-160
Model no.	SC160D/SC160S/SC160U
S/N	0020
Light output	160 lux / 600 lumens
Optical technology	ATIR
Light source	LED *3
Input voltage (DC)	12V (11V - 16V)
Power consumption	11W
Cable diameter	Ø 4mm
Cable length	1400mm
IP rating	IP56
Operating temperature (°C)	-25~+50
Material	Aluminum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



# SCN-1700

## 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.



## 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 x40.8 mm
Switch bracket / mount	N/A
Reflector (optional)	RF1 / RFD
Compliance	CE / RoHS / REACH
Type of approval	N/A
Approval number	N/A



# SEC-150



## SEC-150

- The SEC-150 is a high-performance e-bike light that is built from durable, heat-dissipating aluminum construction and features ultra-high-output LEDs delivering up to 150 lux
- Powered by our latest 2nd generation MTi Pro lens technology, the SEC-150 features a sophisticated multi-beam pattern that's carefully optimized to provide comprehensive, uniform coverage
- 150 lux and maximum 10W power consumption
- IP56- Protects against high pressure water or dust ingress
- For 25km e-bike/ EPAC
- K-Mark & EN-15194-CE compliance

150 LUX

25

12V

IP 56

ALU

Side View

EPC

StVZO

MTi

### Specification

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

# SEC-110

## SEC-110

- Embedded with new MTi system for standard cut-off line beam
- 10m wide and up to 210m distance of beam visibility ahead
- 110 lux
- 8V~16V with a power consumption of 8 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



## Specification

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



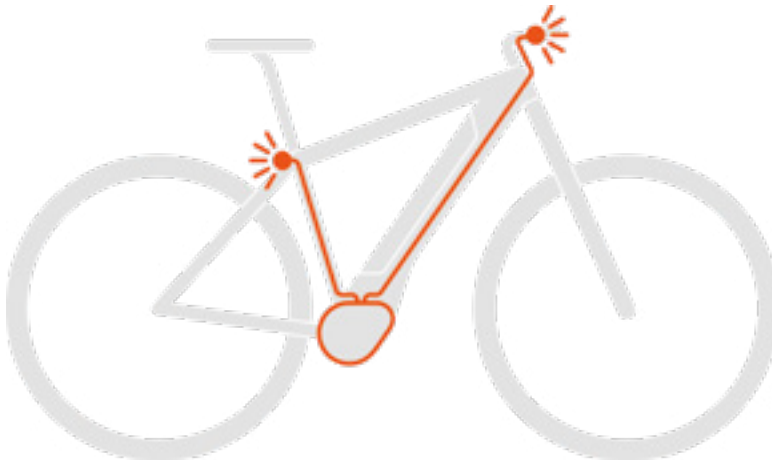




# LITEMOVE × Fidlock

## Seamless Integration Solution

- FIDLOCK's PINCLIP e-bike light technology offers riders a hassle-free lighting solution with its magnetic-mechanical attachment system.
- With its easy attachment and secure fit, cyclists can enjoy reliable illumination on their rides, rain or shine, all while maintaining a sleek and quiet riding experience.
- For SEC-110 and SC-160, we offer our newest e-Bike lights for the 25KM/h category with Fidlock PINCLIP adapter.

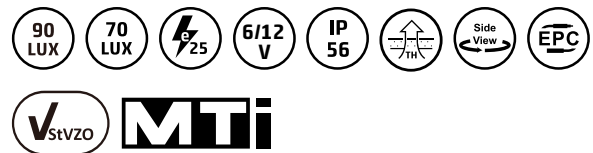




# SE-90 / SE-70



- 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



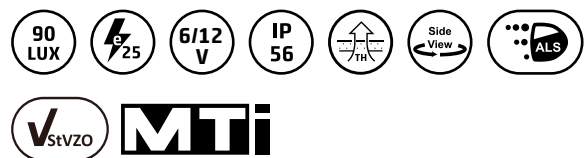
## Specification

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
Switch bracket / mount	N/A	N/A
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- Protect against high pressure water or dust ingress
- For 25km e-bike / EPAC
- K-Mark and EN-15194 CE compliance



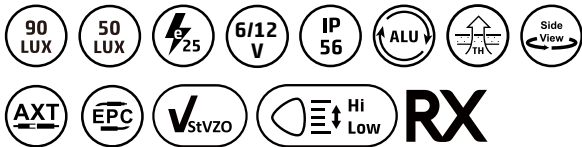
## Specification

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
Switch bracket / mount	N/A
Reflector (optional)	RF1
Compliance	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742
Approval number	- K 2379

# RX-E90 / RX-E50



- 90 lux (RX-E90) 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	RX-E50
Model no.	RXE90	RXE50
S/N	RX02	RX01
Light output	High beam: 90 lux / 400 lumens Low beam: 50 lux / 200 lumens	50 lux / 200 lumens
Optical technology	RX Plus	RX
Light source	LED *2	LED *1
Input voltage (DC)	6V (5V - 16V)	6V (5V - 16V)
Power consumption	High beam: 5.8W max. Low beam: 2.9W	2.5W
Cable diameter	Power: Ø 4mm Switch: Ø 2.55mm	Ø 4mm
Cable length	Power: 1400mm Switch: 300mm / 650mm	Power: 1400mm
IP rating	IP56	IP56
Operating temperature (°C)	-25 ~ +70	-25 ~ +50
Material	Aluminum	Plastic
Weight (w/o cable)	37.5g	18.5g
Dimension (WXHXL)	39.2 x 52.6 x 48.8mm	39.2 x 52.6 x 48.8mm
Switch bracket / mount	Ø 22.2mm	N/A
Reflector (optional)	RFD	RFDT
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 2047	~ K 2047

# RLX-60 / RLX-100



- Equipped with an RX optical reflector for enhanced visibility
- Delivers a beam width of up to 8m 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-60	RLX-100
Model no.	RLX60	RLX100
S/N	0037	0043
Light output	60 lux / 180 lumens	100 lux / 230 lumens
Optical technology	RX	RX
Light source	LED *1	LED *1
Input voltage (DC)	12V(5V-16V)	12V(5V-16V)
Power consumption	2.8W	4.8W
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
Switch bracket / mount	N/A	N/A
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

# RLX-100H



- Equipped with the RX Plus optical reflector featuring a dual-beam function
- Offers a beam visibility spanning up to 8m in width with a beam throw reaching up to 200m
- Delivers brightness of up to 100 lux (high-beam)
- Operates on 6V (compatible with 5V–16V) with a power consumption of 5.8 watts
- Features a two-piece control switch for seamless high-beam operation
- Offers multiple mounting options for versatile installation
- IP56-rated protection against high-pressure water and dust intrusion



## 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



# Headlight

For Speed Pedelec



# AE-260

## 45km Speed Pedelec



- A auxiliary headlight with uniform lighting distribution
- Up to 8.5m wide and up to 325m distance of beam visibility ahead
- High (driving beam): 680 lumens / Low (passing beam): 600 lumens
- 12V (11V-16V)
- **For L1e/L2e/L3e/L4e/L5e**
- UNECE-R113 Class-C (E-Mark)
- Compliant with CE/ ROHS/ REACH

260  
LUX

45

12V

IP  
56

ALU

Side  
View

**MTi**plus

## Specification

Model name	AE-260
Model no.	
S/N	
Light output	High beam (Driving beam) : 680 lumens Low beam (Passing beam) : 650 lumens
Optical technology	MTi Plus
Light source	LED *6
Input voltage (DC)	12V (11V - 16V)
Power consumption	High beam: 17W Low beam: 17W
Cable diameter	Ø 4mm
Cable length	250mm with connector
IP rating	IP67
Operating temperature (°C)	-25 ~ +70
Material	Aluminum
Weight (w/o cable)	106g
Dimension (WXHXL)	Ø 43.5 x 51 mm
Switch bracket / mount	N/A
Reflector (optional)	N/A
Compliance	CE / RoHS / REACH
Type of approval	UNECE R113 Class-C / ISO 6742
Approval number	

# AE-200



- For 45km e-bike/ 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

○ 538

○ 421

○ 522





613

627





	TZVB	TZH	TZHB	TL-FD	TL01	TL03	TB01/02	TB03/04
Brightness								
mcd	45000/ 4000	10000	55000/ 10000	7200		5000		40000/ 5500/ 2500
lumens	25/13	16	33/16	20	25	20	90/35	90/20/10
Beam Angle								
	240°	240°	240°	240°	240°	240°	240°	240°
Visible From								
Meter	670/200	320	750/320	270		230/160		640/240/160
Power Source								
DC 12V	●	●	●	●				
DC 6V	●	●	●	●				
Battery					●	●	●	●
Placement								
Carrier		●	●					
Seatpost					●	●	●	●
Fender	●			●				
Legal Requirement								
K-mark	●	●	●	●		●		●
ISO-6742	●	●	●	●		●		●
International					●		●	



# **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.

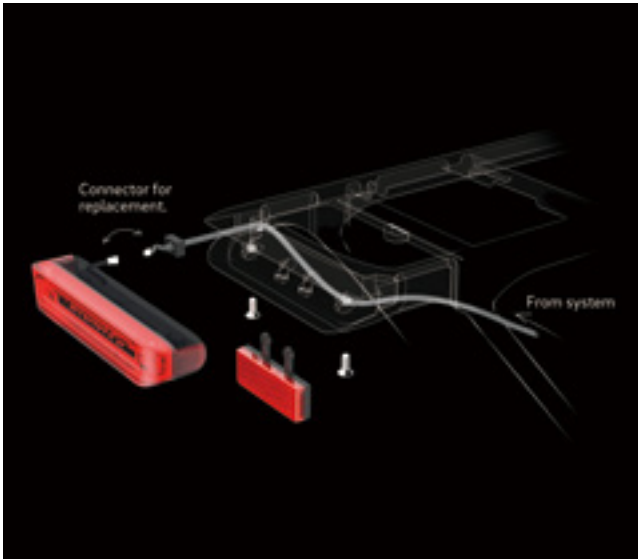
Options: TX301/ TX302

# TX301



## TX301

- 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



## Specification

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



# TX302



## TX302

- A standard tail light
- 6-16V with a power consumption of 0.6 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



## Specification

Model name	TX3
Model no.	TX302
S/N	0014-1
Light output	2500mcd / 10 lumens
Optical technology	TX3
Light source	LED *46
Input voltage (DC)	12V (6V - 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)	36g
Dimension (WXHXL)	124.4 x 20.4 x 16.8 mm
Mounting option	TX3-compatible rack
Reflector (optional)	RF2
Compliance	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 2450

# 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



**LTi**

## 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
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

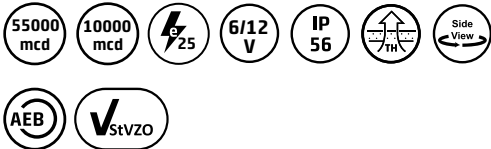


# TZH / TZHB



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	TZH	TZHB
Model no.	TZH	TZHB
S/N	0042-1	0042
Light output	10000mcd / 16 lumens	Brake light : 55000mcd / 33 lumens Rear light : 10000mcd / 16 lumens
Optical technology		
Light source	LED*2	LED*4
Input voltage (DC)	12V(5V-16V)	12V(5V-16V)
Power consumption	0.6W	Brake light : 1.5W Rear light : 0.6W
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-refleator	Integrated Z-refleator
Compliance	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2646	~ K 2646



# Seatpost Solution

## TSV Seatpost Tail Light

Options: TSV-SP





# TSV-SP

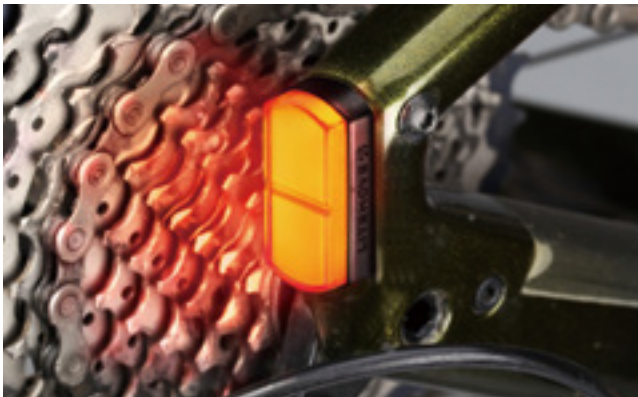


- The compact and sleekly designed TSV tail light delivers a wide, 240-degree beam visibility that ensures you're seen from all angles, day or night.
- Compliant with German StVZO standards, the TSV can be easily mounted in multiple configurations and allows for both vertical and horizontal installations, 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)	17.1x37x26mm (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



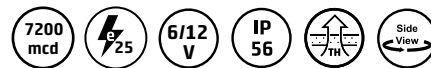
# TS-SP



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

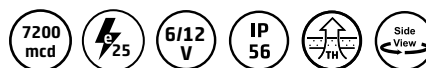


# Fender Solution

# 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	Universal
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)	16.3x89.6x12.9mm (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





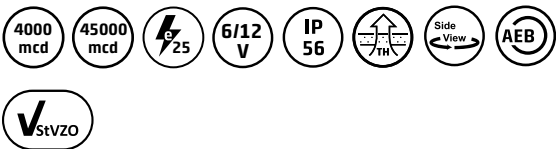
# TZV / TZVB



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	TZV	TZVB
Model no.	TZV	TZVB
S/N	0041-1	0041
Light output	4000mcd / 13 lumens	Brake light: 45000mcd / 25 lumens Rear light: 4000mcd / 13 lumens
Optical technology		
Light source	LED*2	LED*3
Input voltage (DC)	12V(5V-16V)	12V(5V-16V)
Power consumption	0.6W	Brake light : 1.5W Rear light : 0.6W
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

# Battery Light



28000

24000

# 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

90 lumens

35 lumens

20 lumens

USB-C

memory

50 hrs upto

11.5 hrs upto

10.5 hrs upto

IP 56

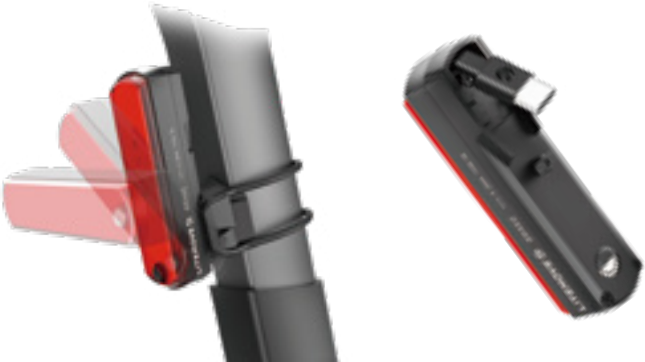
Side View

AEB

StvZO

## Specification

Model name	TB01
Model no.	TB01
S/N	0044
Mode / brightness	High: 35 lumens Standard: 11 lumens Strobe: 6 lumens Flash: 2 lumens Eco: 1 lumens
Light source	LED*18 (Red)
Power source	Battery (3.7V/ 400mAh)
Runtime	High: 2 hours Standard: 5 hours Strobe: 12 hours Flash: 36 hours Eco: 50 hours
Charge time	2.5 hours
Charge required	Built-in USB-C, 5V 1A
Low power indicator	Yes
Charging indicator	Yes
IP rating	IP56
Operating temperature (°C)	-10 ~ +50
Material	Plastic
Weight (w/o cable)	27g
Dimension (WXHXL)	20*77.7*21.7mm (w/o bracket)
Mounting bracket	Universal ø 22.2-35mm
Reflector	N/A
Compliance	CE / RoHS / REACH
Type of approval	N/A
Approval number	N/A



Easy attaché and lock tight

Built-in charging cable



Integrated on frame

- 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	Brake light: 90 lumens High: 35 lumens Standard: 12 lumens Strobe: 6 lumens Flash: 2 lumens Eco: 1 lumens	High : 5500mcd / 20 lumens Standard : 2500mcd / 10 lumens	Brake light: 40000mcd / 90 lumens High: 5500mcd / 20 lumens Standard: 2500mcd / 10 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 hours Standard: 5 hours Strobe: 12 hours Flash: 36 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
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*77.7*21.7mm (w/o bracket)	20*77.7*21.7mm (w/o bracket)	20*77.7*21.7mm (w/o bracket)
Mounting bracket	Universal ø 22.2-35mm	Universal ø 22.2-35mm	Universal ø 22.2-35mm
Reflector	N/A	N/A	N/A
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH
Type of approval	N/A	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	N/A	-K 2644	-K 2644



# TL Visibility Lights

Up to 40 lumens and 100 hours run-time



- High-Efficiency Brightness & Runtime: Equipped with a 300 mAh battery for optimal performance and extended use. Illuminates up to 25 lumens & 70 hours run-time.
- Adaptive Lighting Modes: Multiple light modes with memory function for various riding scenarios
- Integrated USB Charging: Built-in USB-A charging cord for convenient, cable-free power-up
- Quick & Flexible Mounting: Fast mounting system with versatile positioning options, supports vertical or horizontal installation on forks, handlebars, seat posts, carriers, and more
- Certified Safety & Compliance: K-Mark, CE, ROHS, and REACH certified for quality and regulatory assurance



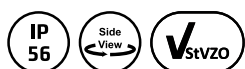
## Specification

Model name	TL01
Model no.	TL01
S/N	TL01
Light output	High: 25 lumens Standard: 13 lumens Strobe: 23 lumens Flash: 11 lumens Eco: 4 lumens
Optical technology	N/A
Light source	LED*16 (Red)
Power source	Battery (3.7V/ 300mAh)
Runtime	High: 2.5 hours Standard: 5 hours Strobe: 15 hours Flash: 65 hours Eco: 70 hours
Charge time	1.5 hours
Charge require	Built-in USB-A, 5V 1A
Low power indicator	Yes
Charging indicator	Yes
IP rating	IP56
Operating temperature (°C)	-10 ~ +50
Material	Plastic
Weight (w/o bracket)	18g
Dimension (WXHXL)	15.5 x 74.3 x 18mm (w/o bracket)
Mounting bracket	Universal ø 22.2-35mm
Compliance	CE / RoHS / REACH
Type of approval	N/A
Approval number	N/A





Built-in charge cord



## Specification

Model name	TL02	TL03
Model no.	TL02	TL03
S/N	TL02	0010
Light output	High: 40 lumens Standard: 20 lumens Strobe: 36 lumens Flash: 18 lumens Eco: 6.4 lumens	High : 5000mcd / 20 lumens Standard : 2500mcd / 11 lumens
Optical technology	N/A	TL-K
Light source	LED*16 (White)	LED*16 (Red)
Power source	Battery (3.7V/ 300mAh)	Battery (3.7V/ 300mAh)
Runtime	High: 4 hours Standard: 9 hours Strobe: 19 hours Flash: 95 hours Eco: 100 hours	High : 2 hours Standard : 3.5 hours
Charge time	1.5 hours	1.5 hours
Charge require	Built-in USB-A, 5V 1A	Built-in USB-A, 5V 1A
Low power indicator	Yes	Yes
Charging indicator	Yes	Yes
IP rating	IP56	IP56
Operating temperature (°C)	-10 ~ +50	-10 ~ +50
Material	Plastic	Plastic
Weight (w/o bracket)	18g	18g
Dimension (WXHXL)	15.5 x 74.3 x 18mm (w/o bracket)	15.5 x 74.3 x 18mm (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

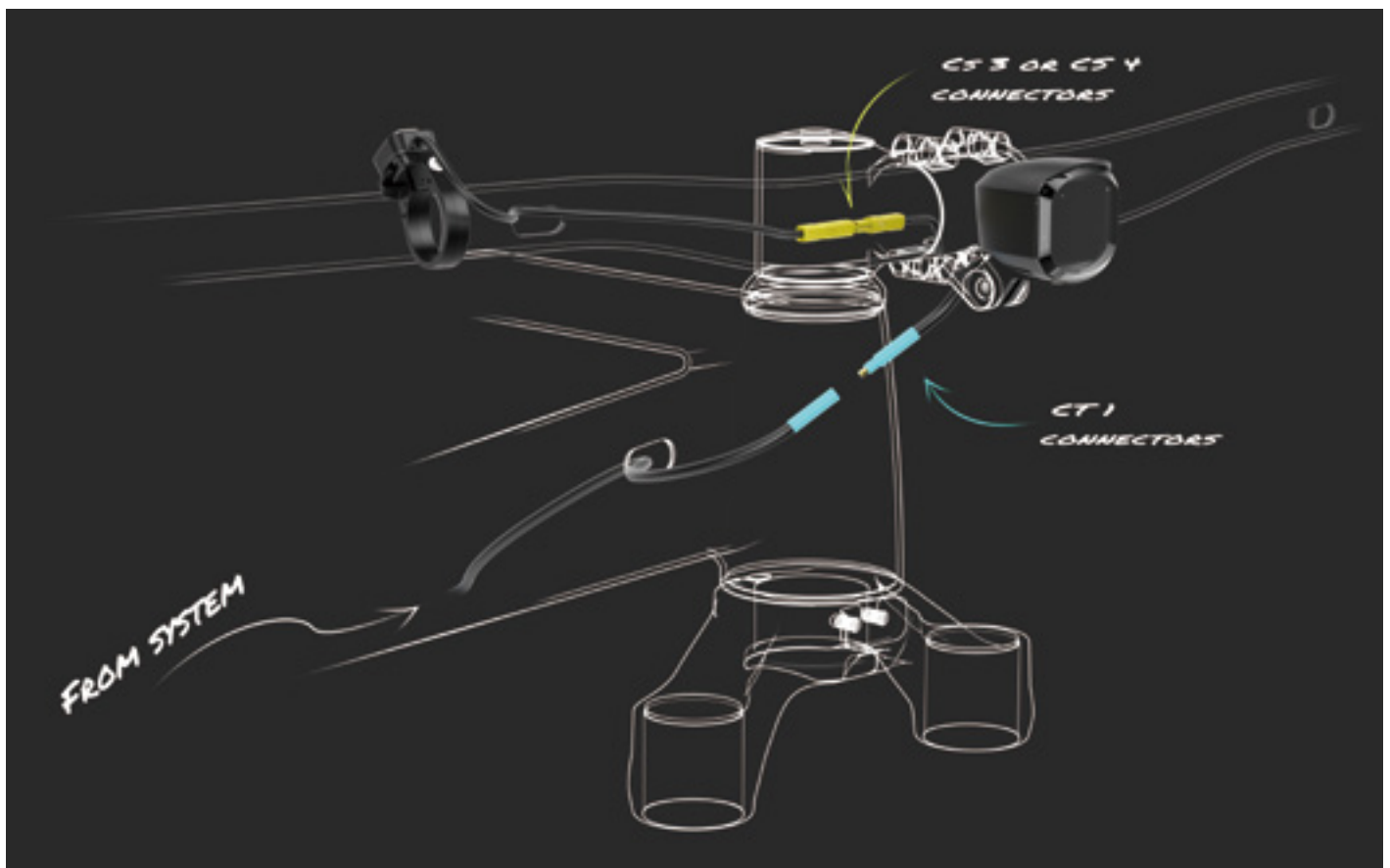
# FE Cable Solutions



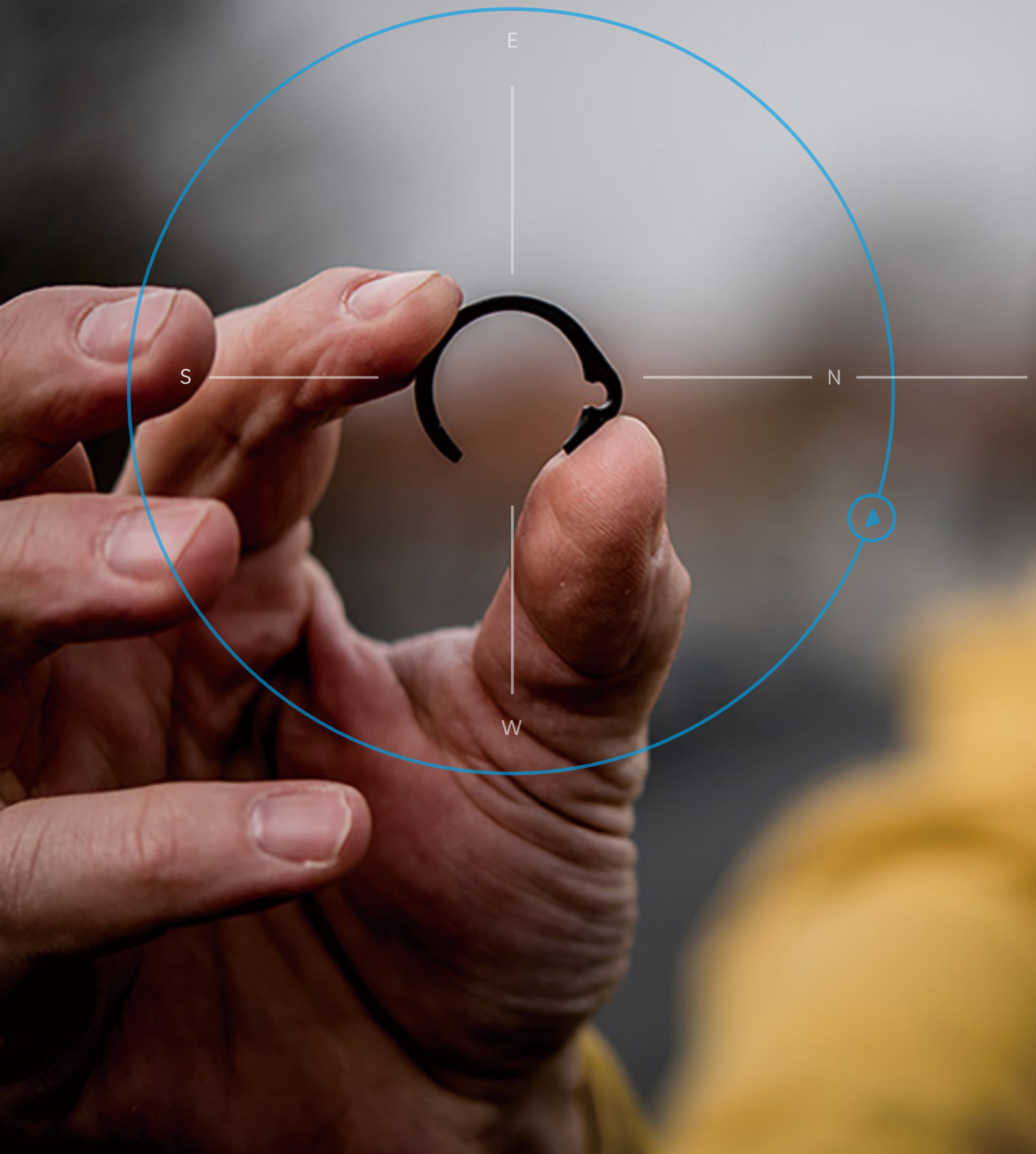
- PVC free cable
- Make a Clean & Neat Assemble
- Hassle free for repair
- Compatible with Litemove headlights with EPC function (easy power connector) .
- Available for Bosch / Shimano / Yamaha / TQ ...



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.



# 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 Solutions



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

Material: Plastic  
Model No: GO-B01

## Fork Mount



2 axes 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 MOBI34/45/25/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



Headlight rear adapter (eccentric)/ space 10mm

Material: Plastic  
Model No: AP2A



Front fender adapter

Material: Plastic  
Model No: AP3A



## 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

# Specifications Overview

## 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 52mm	Ø 46 x 40.8 mm	Ø 46 x 40.8 mm	Ø 43.5 x 46.9mm
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	SE-90	SE-90A	SE-70
Model no.	SEC110D / SEC110S / SEC110U	SE90D / SE90U	SE90AD	SE70D / SE70U
S/N	10019	0021	0024	0018
Light output	110 lux/ 300 lumens	90 lux/ 200 lumens	Standard: 90 lux / 200 lumens Day Light: 30 lux / 50 lumens	70 lux/ 150 lumens
Optical technology	MTi	MTi	MTi	MTi
Light source	LED* 2	LED* 1	LED* 1	LED* 1
Input voltage (DC)	12V (8V - 16V)	6V (5V - 16V)	6V (5V - 16V)	6V (5V - 16V)
Power consumption	8W	5W	Standard: 5W Day Light: 1.5W	4W
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	Plastic	Plastic	Plastic
Weight (w/o cable)	85g	66g	67g	66g
Dimension (WXHXL)	Ø 43.5 x 46.9mm	Ø 43.5 x 49mm	Ø 43.5 x 49mm	Ø 43.5 x 49mm
Switch bracket / mount	N/A	N/A	N/A	N/A
Reflector (optional)	RF1 / RFD	RF1	RF1	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	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	- K 2511	- K 2379	- K 2379	- K 2379

MODEL NAME	RX-E90	RX-E50	RLX-60	RLX-100
Model no.	RXE90	RXE50	RLX60	RLX100
S/N	RX02	RX01	0037	0043
Light output	High beam : 90 lux / 400 lumens Low beam : 50 lux / 200 lumens	50 lux / 200 lumens	60 lux / 180 lumens	100 lux / 230 lumens
Optical technology	RX Plus	RX	RX	RX
Light source	LED*2	LED*1	LED*1	LED*1
Input voltage (DC)	6V (5V ~ 16V)	6V (5V ~ 16V)	12V (5V-16V)	12V (5V-16V)
Power consumption	High beam: 5.8W max. Low beam: 2.9W	2.5W	2.8W	4.8W
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 ~ +70	-25 ~ +50	-25 ~ +50	-25 ~ +50
Material	Aluminum	Plastic	Plastic	Plastic
Weight (w/o cable)	37.5g	18.5g	34g	34g
Dimension (WXHXL)	39.2 x 52.6 x 48.8 mm	39.2 x 52.6 x 48.8 mm	43.3 x 43.7 x 51.3 mm	43.3 x 43.7 x 51.3 mm
Switch bracket / mount	Ø 22.2mm	N/A	N/A	N/A
Reflector (optional)	RFD	RFDT	RFDT	RFDT
Compliance	CE / RoHS / REACH / Prop 65	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 2047	- K 2647	- K 2615	- K 2615

MODEL NAME	RLX-100H	AE-260	AE-200
Model no.	RLX100H		HEAE200D / HEAE200U / HEAE200R
S/N	0038		AE200
Light output	High beam : 100 lux / 320 lumens Low beam : 60 lux / 180 lumens	High beam (Driving beam): 680 lumens Low beam (Passing beam): 650 lumens	High beam (Driving beam): 600 lumens Low beam (Passing beam): 500 lumens
Optical technology	RX Plus	MTi Plus	MTi Plus
Light source	LED*2	LED*6	LED *4
Input voltage (DC)	12V(5V-16V)	12V (11V ~ 16V)	12V (9V ~ 16V)
Power consumption	High beam : 5.4W / Low beam : 2.8W	High beam: 17W / Low beam: 17W	High beam: 13W max / Low beam: 9.6W
Cable diameter	Power: Ø 4mm / Switch: Ø 2.55mm	Ø 4mm	Power: Ø 4mm / Switch: Ø 2.55mm
Cable length	Power: 1400mm / Switch: 300mm / 650mm	250mm with connector	Power: 1400mm / Switch: 300mm / 650mm
IP rating	IP56	IP67	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +70	-25 ~ +70
Material	Plastic	Aluminum	Aluminum
Weight (w/o cable)	45g	106g	120g
Dimension (WXHXL)	43.3 x 43.7 x 51.3 mm	Ø 43.5 x 51mm	Ø 46 x 59.5mm
Switch bracket / mount	Ø 22.2mm	N/A	Ø 22.2mm
Reflector (optional)	RFDT	N/A	RF1 / RFD
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	CE / RoHS / REACH / Prop 65
Type of approval	StVZO-K / ISO 6742	UNECE R113 Class-C / ISO 6742	UNECE R113 Class-B / ISO 6742
Approval number	- K 2615		E9 16897

## Taillights

MODEL NAME	TX3	TX3	TA-KA	TA-KS	TSV-SP
Model no.	TX301	TX302	TKACE	TKSCE	TSV
S/N	0014	0014-1	B06	B05	0031
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	2500mcd/ 10 lumens
Optical technology	TX3	TX3	LTi	LTi	
Light source	LED*48	LED*46	LED*2	LED*1	LED *10
Input voltage (DC)	12V (6V ~ 16V)	12V (6V ~ 16V)	12V (6V ~ 16V)	12V (6V ~ 16V)	6V (5V ~16V)
Power consumption	Brake light : 2W Rear light : 0.6W	0.6W	Brake light: 4.3W Rear light: 0.5W	0.5W	0.65W
Cable diameter	Ø 3mm	Ø 3mm	Ø 3mm / 1-3 pins	Ø 3mm / 1-2 pins	Ø 3mm
Cable length	1400mm	1400mm	1700mm	1400mm	1400mm
IP rating	IP56	IP56	IP56	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +50	-25 ~ +70	-25 ~ +70	-25 ~ +50
Material	Plastic	Plastic	Plastic	Plastic	Plastic
Weight (w/o cable)	36g	36g	31g	33g	18g (w/o bracket)
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	17.1x37x26mm (w/o bracket)
Mounting option	TX3-compatible rack	TX3-compatible rack	50mm & 80mm rack holder	50mm & 80mm rack holder	TSV-SP316 : Ø 31.6 & 30.9mm seat post TSV-SP272 : Ø 27.2mm seat post
Reflector (optional)	RF2	RF2	N/A	N/A	N/A
Compliance	CE / RoHS / REACH	CE / RoHS / REACH	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 2450	~ K 2450	~ K 1929	~ K 1930	~ K 2550



MODEL NAME	TS-SP	TS-FD	TS-RK	TL-FD
Model no.	TKSESP1-316 TKSESP1-272	TKSEFD	TKSE-RR800 TKSE-RR500	TLFD
S/N	B03	B03	B01(RR500) / B02(RR800)	0005
Light output	7200mcd/ 20 lumens	7200mcd/ 20 lumens	7200mcd/ 20 lumens	7200mcd/ 20 lumens
Optical technology	LTi	LTi	LTi	TL-K
Light source	LED *4	LED *4	LED *4	LED*16 (Red)
Input voltage (DC)	6V (5V - 16V)	6V (5V - 16V)	6V (5V - 16V)	6V (5V - 16V)
Power consumption	0.6W	0.6W	0.6W	0.6W
Cable diameter	Ø 3mm	Ø 3mm	Ø 3mm	Ø 3mm
Cable length	1400mm	1400mm	1400mm	1400mm
IP rating	IP56	IP56	IP56	IP56
Operating temperature (°C)	-25 ~ +70	-25 ~ +70	-25 ~ +70	-25~+50
Material	Plastic	Plastic	Plastic	Plastic
Weight (w/o cable)	18g (w/o bracket)	18g (w/o adapter)	TKSE-RR800: 23g TKSE-RR500: 20g	11g
Dimension (WXHXL)	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	TKSESP1-316: Ø 31.6 & 30.9mm seat post TKSESP1- 272: Ø 27.2mm seat post	Universal	TKSE-RR800: 80mm rack holder TKSE-RR500: 50mm rack holder	Bicycle fender
Reflector (optional)	N/A	N/A	RF2	N/A
Compliance	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
Approval number	~ K 1693	~ K 1693	~ K 1693	~ K 2149

MODEL NAME	TZV	TZVB	TZH	TZHB
Model no.	TZV	TZVB	TZH	TZHB
S/N	0041-1	0041	0042-1	0042
Light output	4000mcd / 13 lumens	Brake light : 45000mcd / 25 lumens Rear light : 4000mcd / 13 lumens	10000mcd / 16 lumens	Brake light : 55000mcd / 33 lumens Rear light : 10000mcd / 16 lumens
Optical technology				
Light source	LED*2	LED*3	LED*2	LED*4
Input voltage (DC)	12V(5V-16V)	12V(5V-16V)	12V(5V-16V)	12V(5V-16V)
Power consumption	0.6W	Brake light : 1.5W Rear light : 0.6W	0.6W	Brake light : 1.5W Rear light : 0.6W
Cable diameter	Ø 3mm	Ø 3mm	Ø 3mm	Ø 3mm
Cable length	1400mm	1400mm	1400mm	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)	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	TL01	TL02	TL03
Model no.	TL01	TL02	TL03
S/N	TL01	TL02	0010
Light output	High: 25 lumens Standard: 13 lumens Strobe: 23 lumens Flash: 11 lumens Eco: 4 lumens	High: 40 lumens Standard: 20 lumens Strobe: 36 lumens Flash: 18 lumens Eco: 6.4 lumens	High: 5000mcd / 20 lumens Standard: 2500mcd / 11 lumens
Optical technology			TL-K
Light source	LED*16 (Red)	LED*16 (White)	LED*16 (Red)
Power source	Battery (3.7V/ 300mAh)	Battery (3.7V/ 300mAh)	Battery (3.7V / 300mAh)
Runtime	High: 2.5 hours Standard: 5hours Strobe: 15 hours Flash: 65 hours Eco: 70 hours	High: 4 hours Standard: 9 hours Strobe: 19 hours Flash: 95 hours Eco: 100 hours	High : 2 hours Standard : 3.5 hours
Charge time	1.5 hours	1.5 hours	1.5 hours
Charge require	Built-in USB-A, 5V 1A	Built-in USB-A, 5V 1A	Built-in USB-A, 5V 1A
Low power indicator	Yes	Yes	Yes
Charging indicator	Yes	Yes	Yes
IP rating	IP56	IP56	IP56
Operating temperature (°C)	-10 ~ +50	-10 ~ +50	-10 ~ +50
Material	Plastic	Plastic	Plastic
Weight (w/o bracket)	18g	18g	18g
Dimension (WXHXL)	15.5 x 74.3 x 18mm	15.5 x 74.3 x 18mm	15.5 x 74.3 x 18mm
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
Compliance	N/A	N/A	StVZO-K / ISO 6742
Type of approval	N/A	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: 11 lumens Strobe: 6 lumens Flash: 2 lumens Eco: 1 lumens	Brake light :90 lumens High: 35 lumens Standard: 12 lumens Strobe: 6 lumens Flash: 2 lumens Eco: 1 lumens	High : 5500mcd / 20 lumens Standard : 2500mcd / 10 lumens	Brake light : 40000mcd / 90 lumens High : 5500mcd / 20 lumens Standard : 2500mcd / 10 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 hours Standard: 5 hours Strobe: 12 hours Flash: 36 hours Eco: 50 hours	High: 2 hours Standard: 5 hours Strobe: 12 hours Flash: 36 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
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 22.2-35mm	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	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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