

LITEMOVE 



Aftermarket | 2024

CATALOGUE



Table of Contents

About Us	P.03 - 04
Light Technology	P.05 - 08
Optical Safety Ideology	P.09 - 10
Headlight Solutions EPAC AEW-230/ SEW-170/ AC-210/ AC-150/ AE-130/ SC-150/ SEC-110/ SE-90A/ SE-70/ RX-E90/ RX-E50 Speed Pedelec AE-200	P.11 - 25
Tail Light Solutions TS-SP/ TS-RK TS-FD/ TL-FD	P.26 - 30
Accessories Handlebar/ Fork/ Gopro Solution/ Adapter/ Seat Post/ Fender/ Seat Stay & Seat Post/ Reflector	P.31 - 34
Specificaitons	P.35 - 36

About Litemove

Litemove is a design & manufacturing company of LED lights for the global bicycle industry.

The company is based in Taiwan; with sales, marketing, and service located in both Germany and Taiwan. We are a young energetic company complimented by a team with several decades of international experience in optics, electronics and mechanical engineering harnessed from the automotive industry.

These key attributes are brought together in our bicycle product design team for the creation of world class products.

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.

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 |



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.

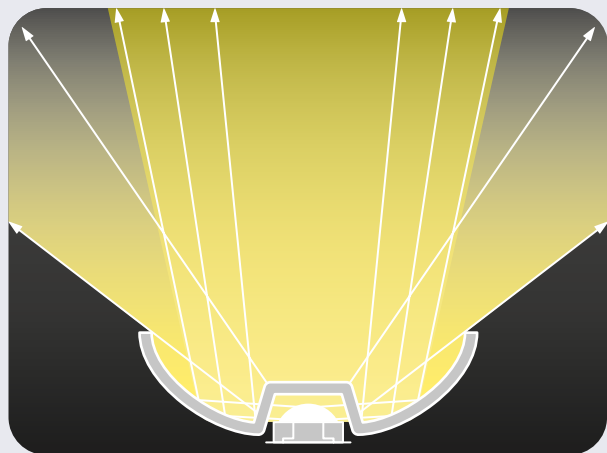
ATIR Series

ATIR

ATIR (Advanced total internal reflection) technology is latest innovation using for automotive lighting. It is a compound lens that combines the best of both a reflector and a lens to maximize the beam shaping capabilities.

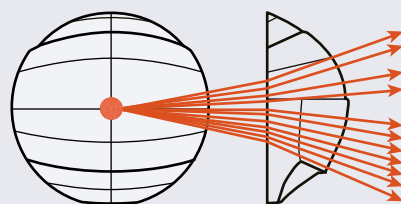
Features:

- Design for wider illumination
- High lumens and lux
- Uniform lighting distribution
- Compact in size
- Higher weather resistant capability
- Longer product lifecycle service



MTi Series

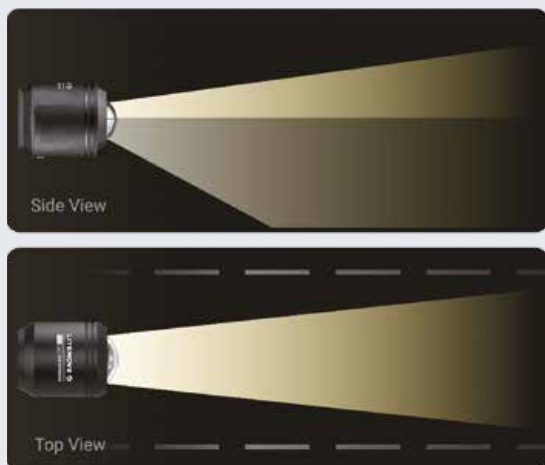
Taking its lead from car headlight technology, MTi (Multi-beam integration) lens uses a highly efficient aspheric lens, designed to offer a complex distribution of multi-beam pattern.



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^{Plus}

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

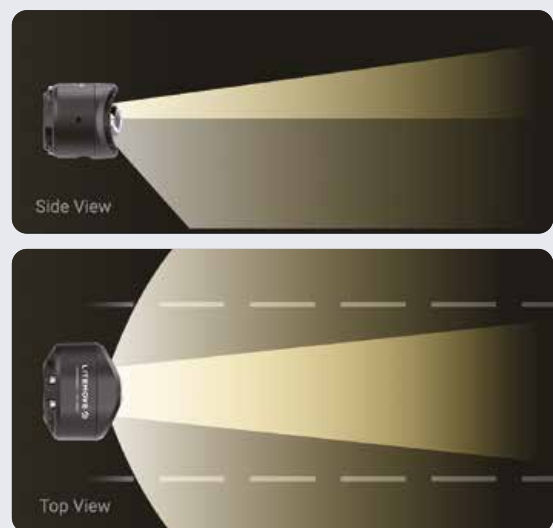
The high-beam features brighter exposure that helps your ride on high speed paths with no lights, rural areas, trails, etc., as well as signalling incoming drivers or cyclists.

MTi^{Pro}

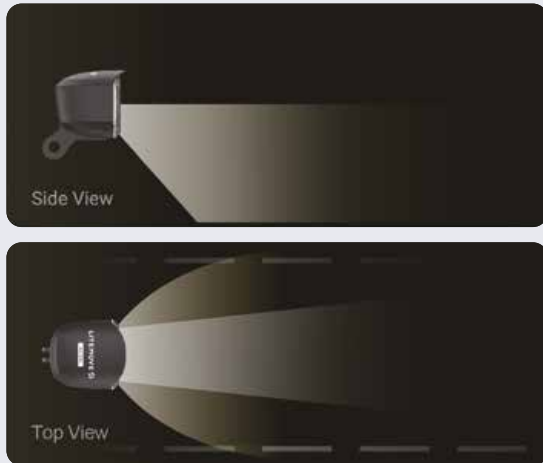
The MTi Pro provides better illumination and wider beam distribution for additional value in a headlight.

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

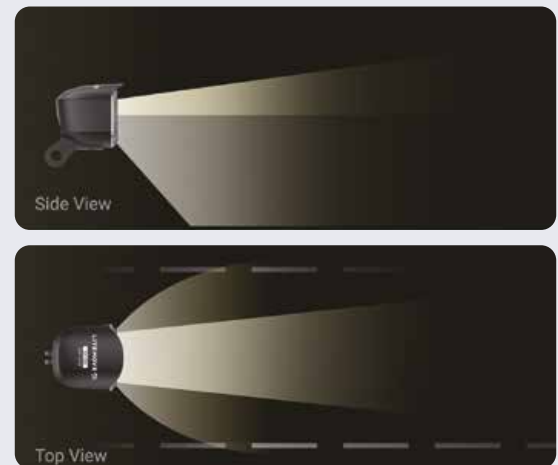


RX

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.

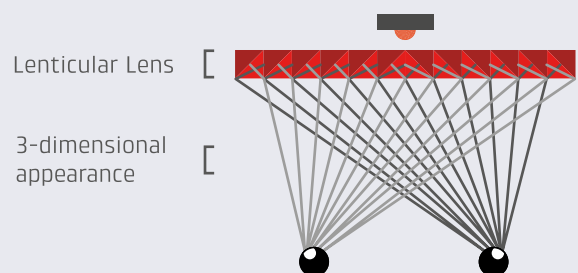


LTi Series

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.





Lux: Light output



Electrically Power Assisted Cycle (EPAC)- 25km



Speed Pedelec- 45km



Input voltage range



Complies with EU/ECE Regulations



Complies with German Road Traffic Licensing Regulations



Side visibility from all sides



Aluminum housing material



Thermal conductive material for better heat flow



Ingress Protection rating that classifies the degrees of protection



Dual-light function: High & low-beam



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.



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



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.



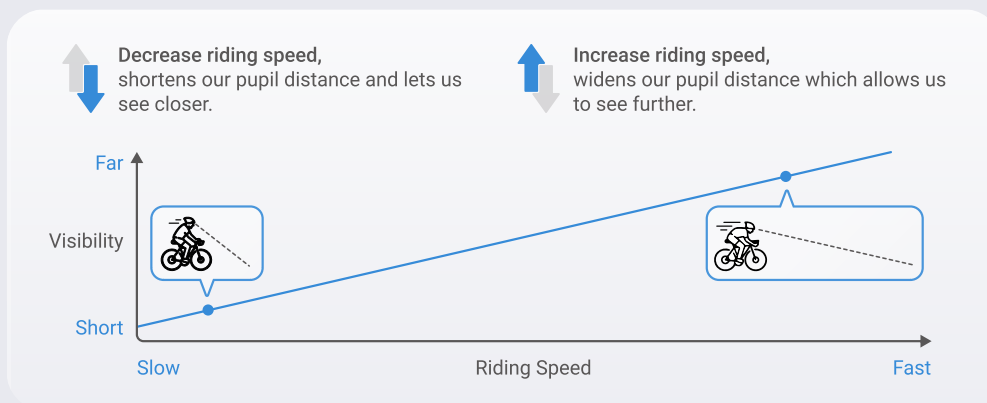
Automatic emergency brake light is a feature that can sense slow or stopped traffic ahead and urgently apply the brakes if the driver fails to respond. Warns the rider/driver of a hard braking event in front, even when the driver's view is obstructed by other vehicles or bad weather conditions. In addition,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

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

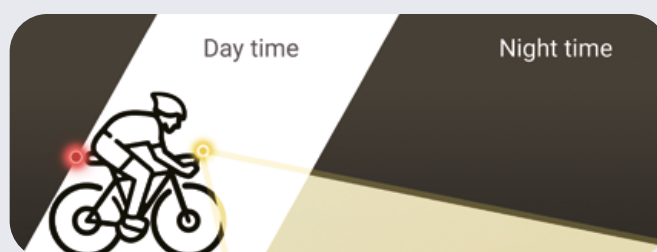
Our pupil distance (visibility) shifts according to how fast or slow we ride on the trail.



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.



Fatal collisions are due to low-light visibility

Suggested Lights to Use in Certain Scenario



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



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



Dual light options (high & low-beam) with far distance beam is vital on **highways** and **urban roads**.



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

Headlight












E-Bike Headlight Overview

















	AEW-230	SEW-170	AC-210	AC-150	AE-130	SC-150
Brightness	170 / 230 Lux	170 Lux	140 / 210 Lux	90 / 150 Lux	90 / 130 Lux	150 Lux
Beam Type	Low / High (Wide)	Low (Wide)	Low / High	Low / High	Low / High	Low
Beam Width @5M	10m	10m	5.5m / 6m	4m / 4.5m	4m / 4.5m	7.5m
Beam Width @10M	10m	10m	10m / 10.5m	7m / 8m	7m / 8m	12m
Visibility Distance	300m	250m	300m	230m	230m	250m
Rider Experience						
Novic Riders	●	●				●
Experience Riders	●	●	●	●	●	●
Rider Experience						
Daytime/ Sunrise	●	●	●	●	●	●
Nighttime/ Sunset	●	●	●	●	●	●
Fog/ Rain/ Snow	●	●				●
Rider Experience						
City/ Urban Area	●	●	●	●		
Rural Area	●	●	●	●	●	●
Mountain Trails	●	●				

	SEC-110	SE-90A	SE-70	RX-E90	RX-E50	AE-200
Brightness	110 Lux	90 Lux	70 Lux	50 / 90 Lux	50 Lux	170 / 200 Lux
Beam Type	Low	Low	Low	Low / High	Low	Low / High
Beam Width @5M	5.5m	4.5m	4.5m	4m / 4.5m	4m	4m
Beam Width @10M	10m	8.5m	8m	8m	8m	8m
Visibility Distance	210m	180m	160m	180m	120m	280m







Rider Experience

Novic Riders						
Experience Riders						

Rider Experience

Daytime/ Sunrise						
Nighttime/ Sunset						
Fog/ Rain/ Snow						

Rider Experience

City/ Urban Area						
Rural Area						
Mountain Trails						

AEW-230



Light model: HKA EW230
Cable Length: 1400mm
Mount: Headlight Rear adapter (AP2)
Control Switch : 300mm+ Switch bracket /
mount : Ø 22.2mm
Connector: Waterproof connector (ct22)
SKU No. AEW2301

- 230 lux/ 950 lumen highly efficient LED lights, 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
- IP56- Protects against high pressure water or dust ingress
- Aluminum Pre Casting & CNC housing
- For 25km e-bike / EPAC
- K-Mark & EN-15194-CE compliance

Specification



Light model: HKA EW230
Cable Length: 1400mm
Mount: Handlebar mount (PHB31850)
Mount: Ø 31.8 / 35mm
Control Switch : 300mm+Switch bracket /
mount : Ø 22.2mm
Connector: Waterproof connector (ct22)
SKU No. AEW2302

Model name	AEW-230
Model no.	HKA EW230
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 : 1400 mm 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	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 1973



control switch

SEW-170



- 170 lux highly efficient led lights, with cut-off line beam preventing oncoming eyes from glare
- 10m wide and up to 250m distance of beam visibility ahead
- IP56- Protects against high pressure water or dust ingress
- Aluminum CNC housing
- K-Mark & EN-15194-CE compliance
- For 25km e-bike / EPAC

Specification

Model name	SEW-170
Model no.	HKSEW170
S/N	E10
Light output	170 lux / 550 lumens
Optical technology	MTi Pro
Light source	LED*2
Input voltage (DC)	12V (9V - 16V)
Power consumption	7.3W
Cable diameter	Ø 4mm
Cable length	1400 mm
IP rating	IP56
Operating temperature (°C)	-25 ~ +70
Material	Aluminum
Weight (w/o cable)	120g
Dimension (WXHXL)	Ø 46 x 45.8 mm
Switch bracket / mount	N/A
Reflector (optional)	RFD
Compliance	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 1973



Light model: HKSEW170
Cable Length: 1400mm
Mount: Headlight rear adapter(AP2)
Waterproof connector (ct22)
SKU No. SEW1701



Light model: HKSEW170
Cable Length: 1400mm
Mount: Handlebar mount (PHB31850)
Mount: Ø 31.8 / 35mm
Waterproof connector (ct22)
SKU No. SEW1702

AC-210



Light model: AC210D
Holder: Down
Cable Length: 1400mm
Control Switch : 650mm+ Switch bracket /
mount: Ø 22.2mm
Waterproof connector (ct22)
SKU No. AC2101



Light model: AC210U
Holder: Up
Cable Length: 1400mm
Control Switch : 300mm+ Switch bracket /
mount: Ø 22.2mm
Waterproof connector (ct22)
SKU No. AC2102



Light model: AC210S
Holder: Side
Cable Length: 1400mm
Mount: Handlebar mount (PHB31850)
Mount: Ø 31.8 / 35mm
Control Switch : 300mm+ Switch bracket /
mount: Ø 22.2mm
Waterproof connector (ct22)
SKU No. AC2103

- Use new MTi Plus system, which includes dual-beam option (high/low-beam)
- 10.5m wide and up to 300m distance of beam visibility ahead
- Up to 210 lux
- 10.5-16V with a power consumption up to 16 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 25km e-bike / EPAC
- K-Mark & EN-15194-CE compliance

Specification

Model name	AC-210
Model no.	AC210D / AC210S / AC210U
S/N	0015
Light output	High beam : 210 lux Low beam : 140 lux
Optical technology	MTi Plus
Light source	LED *2
Input voltage (DC)	12V (10.5V - 16V)
Power consumption	High beam : 16W max. Low beam : 10W
Cable diameter	Power : Ø 4mm Switch : Ø 2.55mm
Cable length	Power : 1400 mm 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	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 2388

AC-150



- Use MTi Plus system, which includes dual-beam option (high/low-beam)
- 8m wide and up to 230m distance of beam visibility ahead
- Up to 150 lux
- 6 ~ 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 25km e-bike / EPAC
- K-Mark & EN-15194-CE compliance

Specification

Model name	AC-150
Model no.	AC150D / AC150S / AC150U
S/N	0023
Light output	High beam :150 lux Low beam : 90 lux
Optical technology	MTi Plus
Light source	LED *4
Input voltage (DC)	12V (6V ~ 12V)
Power consumption	High beam : 13W max. Low beam : 6W
Cable diameter	Power : Ø 4mm Switch : Ø 2.55mm
Cable length	Power : 1400 mm Switch : 300mm / 650mm
IP rating	IP56
Operating temperature (°C)	-25 ~ +70
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	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 1837



Light model: AC150D
Holder: Down
Cable Length: 1400mm
Control Switch : 650mm+ Switch bracket /
mount: Ø 22.2mm
Waterproof connector (ct22)
SKU No. AC1501



Light model: AC150U
Holder: Up
Cable Length: 1400mm
Control Switch : 300mm+ Switch bracket /
mount: Ø 22.2mm
Waterproof connector (ct22)
SKU No. AC1502



Light model: AC150S
Holder: Side
Cable Length: 1400mm
Mount: Handlebar mount (PHB31850)
Mount: Ø 31.8 / 35mm
Control Switch : 300mm+ Switch bracket /
mount: Ø 22.2mm
Waterproof connector (ct22)
SKU No. AC1503

AE-130



Light model: HKAE130D
Holder: Down
Cable Length: 1400mm
Mount: Universal fork mount (FKPL)
Control Switch : 650mm+ Switch bracket /
mount: Ø 22.2mm
Reflector: K-Reflector (RF1)
Waterproof connector (ct22)
SKU No. AE1301



Light model: HKAE130U
Holder: Up
Cable Length: 1400mm
Control Switch : 300mm+ Switch bracket /
mount: Ø 22.2mm
Bracket/ Mount: Not included
Waterproof connector (ct22)
SKU No. AE1302



Light model: HKAE130R
Holder: Side
Cable Length: 1400mm
Mount: Handlebar mount (PHB31850)
Mount size: Ø31.8 & 35mm
Control Switch : 300mm+ Switch bracket /
mount: Ø22.2mm
Waterproof connector (ct22)
SKU No. AE1303

- Up to 8m wide and up to 280 meter distance of beam visibility ahead
- 2-piece control switch for high-beam function
- IP56- Protects against high pressure water or dust ingress
- Aluminum CNC housing
- For 25km (EPAC) e-bike
- K-Mark & EN-15194-CE compliance

Specification

Model name	AE-130
Model no.	HKAE130D/ HKAE130U/ HKAE130R
S/N	E05
Light output	High beam :130 lux Low beam : 90 lux
Optical technology	MTi Plus
Light source	LED *4
Input voltage (DC)	12V (6V - 16V)
Power consumption	High beam : 13W max. Low beam : 6W
Cable diameter	Power : Ø 4mm Switch : Ø 2.55mm
Cable length	Power : 1400 mm Switch : 300mm / 650mm
IP rating	IP56
Operating temperature (°C)	-25 ~ +70
Material	Aluminum
Weight (w/o cable)	120g
Dimension (WXHXL)	Ø 46 x 59.5mm
Switch bracket / mount	Ø 22.2mm
Reflector (optional)	RF1 / RFD
Compliance	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 1837

SC-150



- Apply with the most modern ATIR optical technology
- 12m wide and up to 250m distance of beam visibility ahead
- 150 lux high brightness and 800 lumens output
- 11V-16V with a power consumption of 14 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-150
Model no.	SC150D/SC150S/SC150U
S/N	0020
Light output	150 lux/ 800 lumens
Optical technology	ATIR
Light source	LED *1
Input voltage (DC)	12V (11V - 16V)
Power consumption	14W
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	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	



Light model: SC150D
Holder: Down
Cable Length: 1400mm
Mount: Universal fork mount (FKPL)
Reflector: K-Reflector (RF1)
Waterproof connector (ct22)
SKU No. SC1501

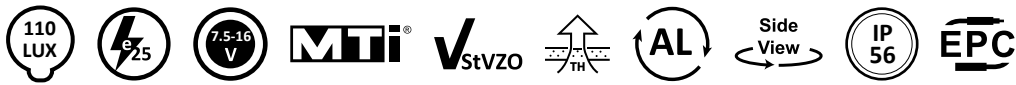


Light model: SC150U
Holder: Up
Cable Length: 1400mm
Bracket/ Mount: Not included
Waterproof connector (ct22)
SKU No. SC1502



Light model: SC150S
Holder: Side
Cable Length: 1400mm
Mount: Handlebar mount (PHB31850)
Mount size: Ø31.8 & 35mm
Reflector: K-Reflector (RFD)
Waterproof connector (ct22)
SKU No. SC1503

SEC-110



Light model: SEC110D
Holder: Down
Cable Length: 1400mm
Mount: Universal fork mount (FKPL)
Reflector: K-Reflector (RF1)
Waterproof connector (ct22)
SKU No. SEC1101



Light model: SEC110U
Holder: Up
Cable Length: 1400mm
Mount/ Bracket: Not included
Waterproof connector (ct22)
SKU No. SEC1102



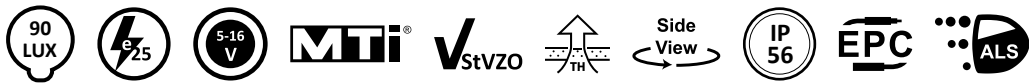
Light model: SEC110S
Holder: Side
Cable Length: 1400mm
Mount: Handlebar mount (PHB31850)
Mount size: Ø 31.8 & 35mm
Reflector: K-Reflector (RFD)
Waterproof connector (ct22)
SKU No. SEC1103

- Embedded with new MTi system for standard cut-off line beam
- 10m wide and up to 210m distance of beam visibility ahead
- 110 lux
- 7.5V~16V with a power consumption of 7.8 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	0019
Light output	110 lux
Optical technology	MTi
Light source	LED *2
Input voltage (DC)	12V (7.5V - 16V)
Power consumption	7.8W
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
Reflector (optional)	RF1 / RFD
Compliance	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	- K 2380

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



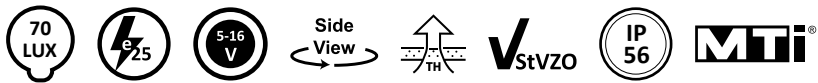
Light model: SE90AD
Holder: Down
Cable Length: 1400mm
Mount: Universal fork mount (FKPL)
Reflector: K-Reflector (RF1)
Waterproof connector (ct22)
SKU No. SE90AD1

Specification

Model name	SE-90A
Model no.	SE90AD
S/N	0024
Light output	Standard: 90 lux Day Light: 30 lux
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	RoHS / CE / Prop 66
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 2379



SE-70



Light model: HKSE70D
Holder: Down
Cable Length: 1400mm
Mount: Universal fork mount (FKPL)
Reflector: K-Reflector (RF1)
Waterproof connector (ct22)
SKU No. SE701



Light model: HKSE70U
Holder: Up
Cable Length: 1400mm
Mount/ Bracket: Not included
Waterproof connector (ct22)
SKU No. SE702

- Highly efficient led lights, with cut-off line beam preventing oncoming eyes from glare
- Up to 6m wide and up to 150m distance of beam visibility ahead
- 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-70
Model no.	SE70D/SE70U
S/N	0018
Light output	70 lux
Optical technology	MTi
Light source	LED *1
Input voltage (DC)	6V (5V - 16V)
Power consumption	4W
Cable diameter	Ø 4mm
Cable length	1400mm
IP rating	IP56
Operating temperature (°C)	-25 ~ +50
Material	Plastic
Weight (w/o cable)	66g
Dimension (WXHXL)	Ø 43.5 x 49 mm
Reflector (optional)	RF1
Compliance	RoHS / CE / Prop 65
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 Low beam : 50 lux	50 lux
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 : 1400 mm Switch : 300mm / 650mm	Power : 1400 mm
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 48.8 mm	39.2 x 52.6 x 48.8 mm
Switch bracket / mount	Ø 22.2mm	n/a
Reflector (optional)	RFD	RFDT
Compliance	RoHS / CE / Prop 65	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 2047	~ K 2047



Light model: RXE90
Holder: Down
Mount: Universal fork mount (FKPL)
Cable Length: 1400mm
Control Switch : 650mm+Switch bracket /
mount: Ø22.2mm
Reflector: K-Reflector (RFD)
Waterproof connector (ct22)
SKU No. RXE901



Light model: RXE90
Holder: Down
Cable Length: 1400mm
Control Switch : 300mm+Switch bracket /
mount: Ø22.2mm
Mount/ Bracket: Not included
Reflector: K-Reflector (RFD)
Waterproof connector (ct22)
SKU No. RXE902



Light model: RXE50
Holder: Down
Mount: Universal fork mount (FKPL)
Cable Length: 1400mm
Reflector: K-Reflector (RFDT)
Waterproof connector (ct22)
SKU No. RXE501

AE-200



Light model: HEAE200D
Holder: Down
Cable Length: 1400mm
Mount: Universal fork mount
Control Switch : 650mm+ Switch bracket /
mount: Ø 22.2mm
Reflector: K-Reflector (RF1)
Waterproof connector (ct22)
SKU No. AE2001



Light model: HEAE200U
Holder: Up
Cable Length: 1400mm
Control Switch : 300mm+ Switch bracket /
mount: Ø 22.2mm
Bracket/ Mount: Not included
Waterproof connector (ct22)
SKU No. AE2002

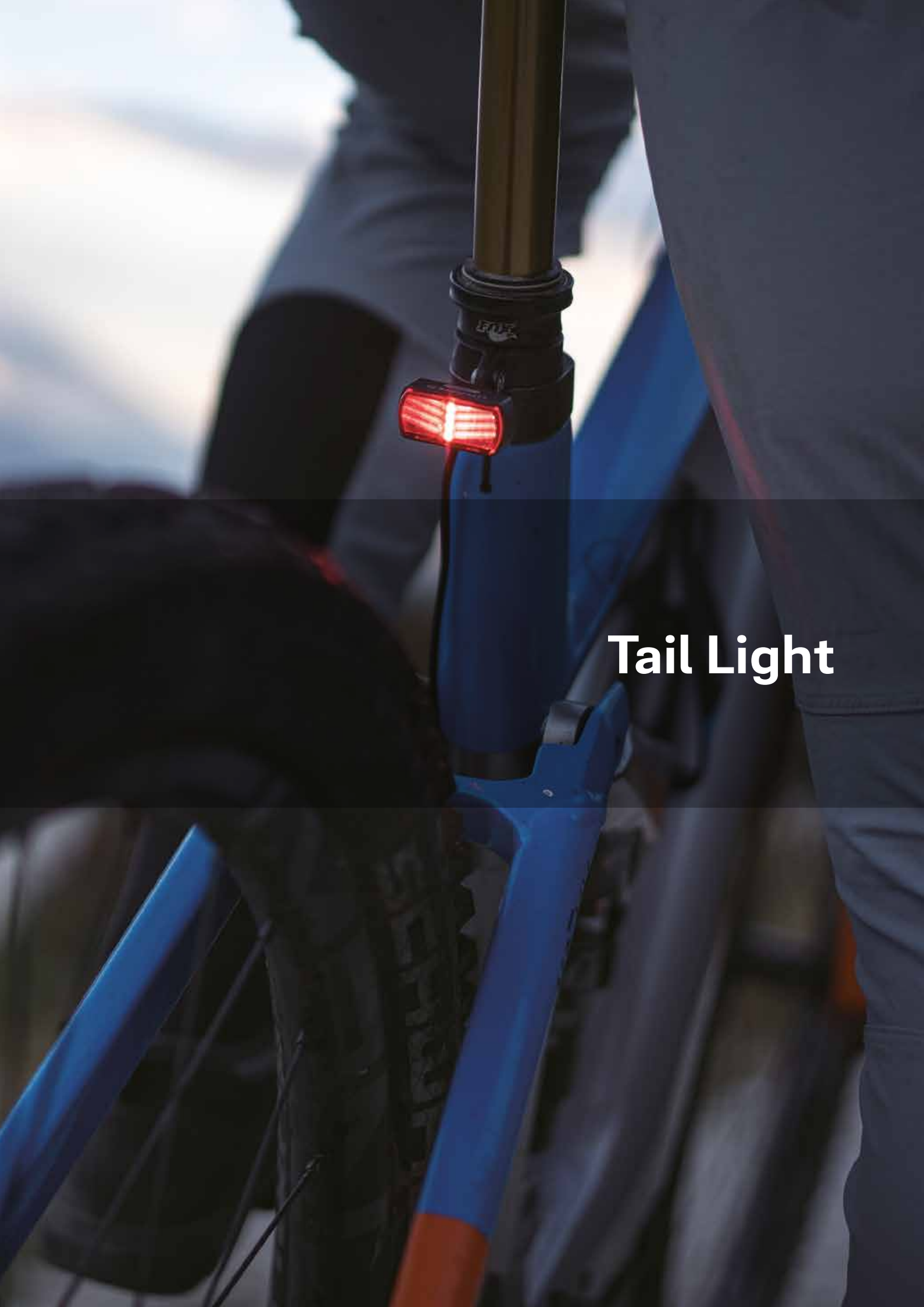


Light model: HEAE200R
Holder: Side
Cable Length: 1400mm
Mount: Handlebar mount (PHB31850)
Mount size: Ø31.8 & 35mm
Control Switch : 300mm+ Switch bracket /
mount: Ø22.2mm
Waterproof connector (ct22)
SKU No. AE2003

- 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 max. Low beam : 9.6W
Cable diameter	Power : Ø 4mm Switch : Ø 2.55mm
Cable length	Power : 1400 mm Switch : 300mm / 650mm
IP rating	IP56
Operating temperature (°C)	-25 ~ +70
Material	Aluminum
Weight (w/o cable)	120g
Dimension (WXHXL)	Ø 46 x 59.5mm
Switch bracket / mount	Ø 22.2mm
Reflector (optional)	RF1 / RFD
Compliance	RoHS / CE / Prop 65
Type of approval	UNECE R113 Class-B
Approval number	E9 16897



Tail Light

TS-SP



Light model: TKSESP-316
 Cable Length: 1400mm
 Bracket mount: For Ø 31.6 / Ø 30.9mm
 Waterproof connector (ct22)
 SKU No. TSSP316

Light model: TKSESP-272
 Cable Length: 1400mm
 Bracket mount: For Ø 27.2mm
 Waterproof connector (ct22)
 SKU No. TSSP272



- 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 & EN-15194-CE compliance

Specification

Model name	TS-SP
Model no.	TKSESP1-316 TKSESP1-272
S/N	B03
Light output	7200mcd
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	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 1693

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 & EN-15194-CE compliance

Specification

Model name	TS-RK
Model no.	TKSE-RR800 TKSE-RR500
S/N	B01(RR500) / B02(RR800)
Light output	7200mcd
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	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 1693



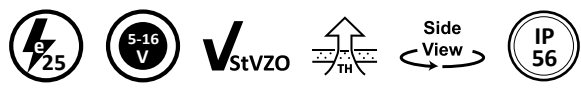
Light model: TKSE-RR500
Cable Length: 1400mm
For 50mm carrier mount
Waterproof connector (ct22)
SKU No. TSRR50



Light model: TKSE-RR800
Cable Length: 1400mm
For 80mm carrier mount
Waterproof connector (ct22)
SKU No. TSRR80



TS-FD



Light model: TKSEFD
Cable Length: 1400mm
Rear fender adapter
Waterproof connector (ct22)
SKU No. TSFD

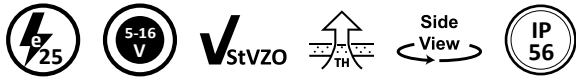
- 7200 mcd highly efficient rear light
- 240-degree wide visibility
- Designed for bicycle's rear fender
- IP56- Protects against high pressure water or dust ingress
- For 25km e-bike / EPAC
- K-Mark & EN-15194-CE compliance

Specification



Model name	TS-FD
Model no.	TKSEFD
S/N	B03
Light output	7200mcd
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	RoHS / CE / 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



Light model: TL-FD
Cable Length: 1400mm
Bolt *2
Waterproof connector (ct22)
SKU No. TLFD

Specification

Model name	TL-FD
Model no.	TLFD
S/N	0005
Light output	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	1400 mm
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
Compliance	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742
Approval number	~ K 2149



A close-up photograph of a black and orange mechanical device, likely a fitness or sports accessory. The device features a black plastic body with orange accents. A circular component with a threaded hole is visible on the left. The brand name "LITEMOVE" is printed in white on the black plastic. To the right, there is a textured orange surface with a black dot pattern and the text "5° UP/8° BAC" in orange. A logo consisting of two curved lines is also visible on the orange surface.

Accessories

for Headlights

Handlebar Bracket



mount: Ø31.8 & 35mm / side

Material: Plastic
SKU No: PHB31850ba



mount: Ø31.8 & 35mm / universal

Material: Plastic
SKU No: PHBU31850ba

Fork Mount



2 axles fork mount

Material: Aluminum
SKU No: FK2Aba



Universal fork mount

Material: Plastic
SKU No: FKPLba



Suntour NEX-E, NEX, CR8

Material: Plastic
SKU No: STU-1ba



Suntour NCX-E

Material: Plastic
SKU No: STU-2ba

GoPro Solutions



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

Material: Plastic
SKU No: STU-3ba



Suntour SF20-NEX-E25

Material: Plastic
SKU No: STU-4ba



FOX AWL

Material: Plastic
SKU No: STU-5ba



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

Material: Plastic
SKU No: GO-B01ba

Adapter



Stem (face cap) adapter

Material: Plastic
SKU No: AP1ba



Headlight rear adapter/ space 9.4mm (GoPro compatible)

Material: Plastic
SKU No: AP2ba



Headlight rear adapter (eccentric)/ space 10mm

Material: Plastic
SKU No: AP2Aba



Front fender adapter

Material: Plastic
SKU No: AP3ba

for Tail lights


Seat Post Mount

	
mount: Ø 27.2mm	mount: Ø 31.6 & 30.9mm
Material: Plastic SKU No: SP1-272ba	Material: Plastic SKU No: SP1-316ba

Fender Mount


Rear fender adapter
Material: Plastic SKU No: FD-CNTba

Seat Stay & Seat Post


SY bracket / mount: seat stay & seat post
Material: Plastic SKU No: SY1ba

Others

Reflector

	
K-reflector (front)	K-reflector + adapter (w/machine screw)
Material: Plastic SKU No: RF1ba	Material: Plastic SKU No: RFDba


Z-reflector (rear)
Material: Plastic SKU No: RF2ba



Specifications Overview

Headlights

Model name	AEW-230	SEW-170	AC-210	AC-150
Model no.	HKAEW230	HKSEW170	AC210D / AC210S / AC210U	AC150D / AC150S / AC150U
S/N	E10	E10	0015	0023
Light output	High beam : 230 lux / 950 lumens Low beam : 170 lux / 550 lumens	170 lux / 550 lumens	High beam : 210 lux Low beam : 140 lux	High beam :150 lux Low beam : 90 lux
Optical technology	MTi Pro	MTi Pro	MTi Plus	MTi Plus
Light source	LED*4	LED*2	LED *2	LED *4
Input voltage (DC)	12V (9V ~ 16V)	12V (9V ~ 16V)	12V (10.5V ~ 16V)	12V (6V ~ 12V)
Power consumption	High beam : 15W max. Low beam : 7.3W	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	Ø 4mm	Power : Ø 4mm Switch : Ø 2.55mm	Power : Ø 4mm Switch : Ø 2.55mm
Cable length	Power : 1400 mm Switch : 300mm	1400 mm	Power : 1400 mm Switch : 300mm / 650mm	Power : 1400 mm Switch : 300mm / 650mm
IP rating	IP56	IP56	IP56	IP56
Operating temperature (°C)	-25 ~ +70	-25 ~ +70	-25 ~ +50	-25 ~ +70
Material	Aluminum	Aluminum	Aluminum	Aluminum
Weight (w/o cable)	165g	120g	128g	128g
Dimension (WXHXL)	63.1 x 49.9 x 52 mm	Ø 46 x 45.8 mm	Ø 46 x 52 mm	Ø 46 x 52 mm
Switch bracket / mount	Ø 22.2mm	N/A	Ø 22.2mm	Ø 22.2mm
Reflector (optional)	RFD	RFD	RF1 / RFD	RF1 / RFD
Compliance	RoHS / CE / Prop 65	RoHS / CE / Prop 65	RoHS / CE / Prop 65	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 1973	~ K 1973	~ K 2388	~ K 1837

Model name	AE-130	SC-150	SEC-110	SE-90A
Model no.	HKAE130D/ HKAE130U/ HKAE130R	SC150D/SC150S/SC150U	SEC110D/SEC110S/SEC110U	SE90AD
S/N	E05	0020	0019	0024
Light output	High beam :130 lux Low beam : 90 lux	150 lux/ 800 lumens	110 lux	Standard: 90 lux Day Light: 30 lux
Optical technology	MTi Plus	ATIR	MTi	MTi
Light source	LED *4	LED *1	LED *2	LED *1
Input voltage (DC)	12V (6V ~ 16V)	12V (11V ~ 16V)	12V (7.5V ~ 16V)	6V (5V ~ 16V)
Power consumption	High beam : 13W max. Low beam : 6W	14W	7.8W	Standard: 5W Day Light: 1.5W
Cable diameter	Power : Ø 4mm Switch : Ø 2.55mm	Ø 4mm	Ø 4mm	Ø 4mm
Cable length	Power : 1400 mm 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	Aluminum	Aluminum / Plastic	Plastic
Weight (w/o cable)	120g	115g	85g	67g
Dimension (WXHXL)	Ø 46 x 59.5mm	Ø 46 x 40.8 mm	Ø 43.5 x 46.9 mm	Ø 43.5 x 49 mm
Switch bracket / mount	Ø 22.2mm			
Reflector (optional)	RF1 / RFD	RF1 / RFD	RF1 / RFD	RF1
Compliance	RoHS / CE / Prop 65	RoHS / CE / Prop 65	RoHS / CE / Prop 65	RoHS / CE / Prop 66
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742
Approval number	~ K 1837		~ K 2380	~ K 2379

Headlights

Model name	SE-70	RX-E90	RX-E50	AE-200
Model no.	SE70D/SE70U	RXE90	RXE50	HEAE200D / HEAE200U/ HEAE200R
S/N	0018	RX02	RX01	AE200
Light output	70 lux	High beam : 90 lux Low beam : 50 lux	50 lux	High beam (Driving beam) : 600 lumens Low beam (Passing beam) : 500 lumens
Optical technology	MTi	RX Plus	RX	MTi Plus
Light source	LED *1	LED*2	LED*1	LED *4
Input voltage (DC)	6V (5V - 16V)	6V (5V - 16V)	6V (5V - 16V)	12V (9V - 16V)
Power consumption	4W	High beam : 5.8W max. Low beam : 2.9W	2.5W	High beam : 13W max. Low beam : 9.6W
Cable diameter	Ø 4mm	Power : Ø 4mm Switch : Ø 2.55mm	Ø 4mm	Power : Ø 4mm Switch : Ø 2.55mm
Cable length	1400mm	Power : 1400 mm Switch : 300mm / 650mm	Power : 1400 mm	Power : 1400 mm Switch : 300mm / 650mm
IP rating	IP56	IP56	IP56	IP56
Operating temperature (°C)	-25 ~ +50	-25 ~ +70	-25 ~ +50	-25 ~ +70
Material	Plastic	Aluminum	Plastic	Aluminum
Weight (w/o cable)	66g	37.5g	18.5g	120g
Dimension (WXHXL)	Ø 43.5 x 49 mm	39.2 x 52.6 x 48.8 mm	39.2 x 52.6 x 48.8 mm	Ø 46 x 59.5mm
Switch bracket / mount		Ø 22.2mm	n/a	Ø 22.2mm
Reflector (optional)	RF1	RFD	RFDT	RF1 / RFD
Compliance	RoHS / CE / Prop 65	RoHS / CE / Prop 65	RoHS / CE / Prop 65	RoHS / CE / Prop 65
Type of approval	StVZO-K / ISO 6742	StVZO-K / ISO 6742	StVZO-K / ISO 6742	UNECE R113 Class-B
Approval number	~ K 2379	~ K 2047	~ K 2047	E9 16897

Taillight

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	7200mcd	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	1400 mm
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	
Compliance	RoHS / CE / Prop 65	RoHS / CE / Prop 65	RoHS / CE / Prop 65	RoHS / CE / Prop 65
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



#ridesafe #litemove





Lite move International

No. 198, Fuya Road, Xitun Dist. Taichung 40762, Taiwan

Pho: +886 4 2462 1080 / Fax: +886 4 2462 1081

info@lite-move.com

Lite move Germany

Weissenbrunner Hauptstrasse 2

91227 Leinburg-Weissenbrunn

Pho: +49 (0) 9187 9010057

info@litemove.eu

www.lite-move.com

Lite move Technology Co., Ltd. © 2022-2023

Photos in this brochure may not be actual products available in your country.
Specifications subject to change without notice.

LM-B40220AM