

Ride • Safe

2021

# Catalogue.

## Lite-move

E-Bike Light Solutions

Aftermarket Range

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[www.lite-move.com](http://www.lite-move.com)



Lite  
move  
Technology



# About Lite move

Lite move is a designer & manufacturer of LED lights for the global bicycle industry. Founded in 2019, 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.



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## Main Products

E-Bike light: e-Mark | K-Mark  
E-Scooter light  
LED headlight module for motorbike

## Factory Certifications

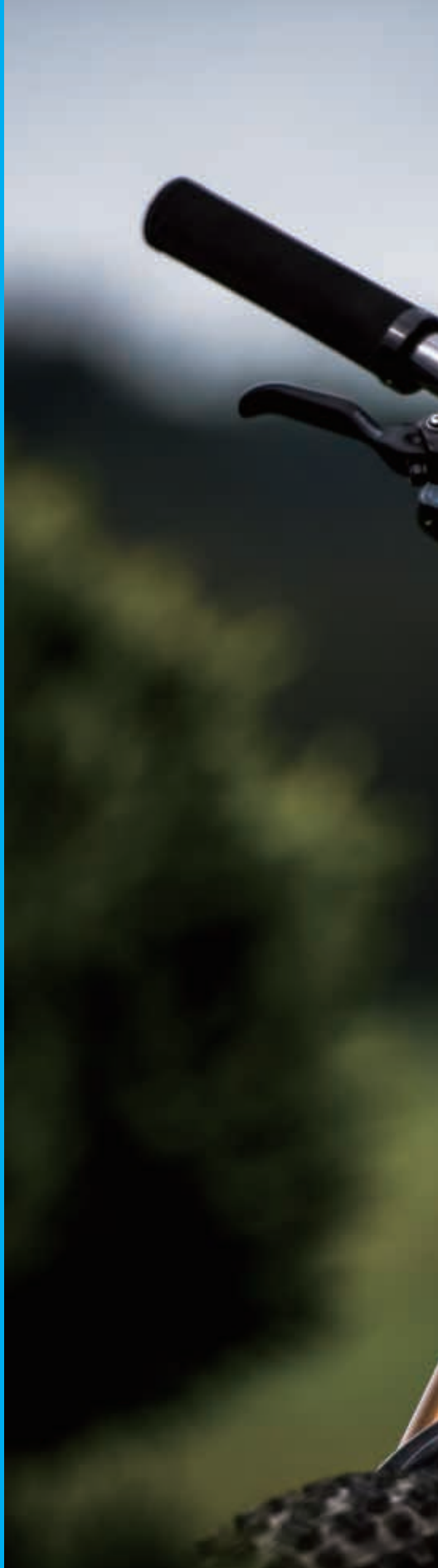
ISO9001/ QS9000  
ISO14001/ IATF-16949

# We Care About Your Safety

Light performs an important safety role for all road users. In the dark, bikes are more difficult to see so cyclists need 100% reliable lighting.

Optical performance is a crucial factor in our lighting design. The ideal solution for anyone wanting exceptional luminous intensity and performance.

At Litemove, we have designed and developed the lights with highly efficient optical lenses that are optimally illuminated both at a distance and at close range.





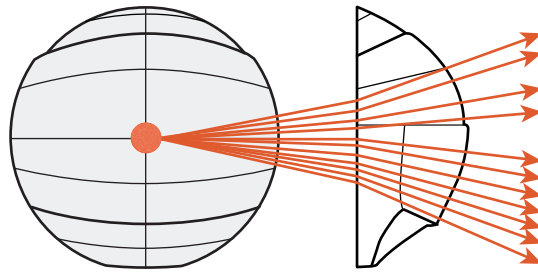
Cannondale  
WANDERN?  
TUJA DIE ANDEREN! GTS NEWS  
DACHHELN!  
ATT HECHELN!

# Light Technology



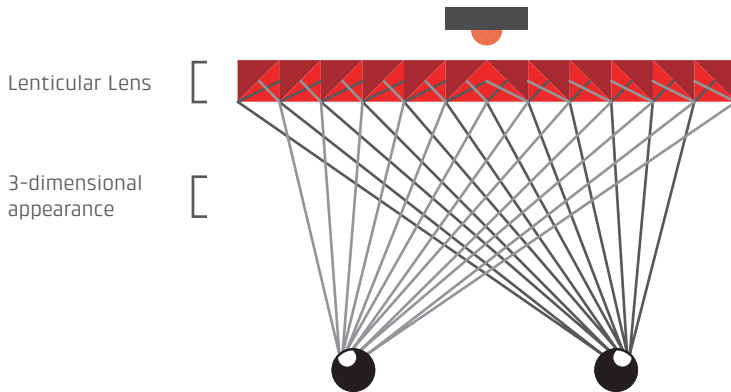
The innovative MTi ( multi-beam integration) Technology uses a high efficiency aspheric lens designed to offer a complex distribution of multi-beam patterns, giving the light a wider and greater coverage, providing optimum illumination for maximum safety.

To produce the aspheric lens requires precision glass molding, precision polishing, single point diamond turning, and injection molding. High-precision technology that helps to reduce waste to a minimum, and provide the most efficient lighting result.



LTi Technology is using lenticular lens design that gives an illusion of depth and movement as they are viewed from various angles. It is often used in modern auto car lights, giving the rear lamps a 3-dimensional appearance and a variety of patterns when viewed from different angles.

This provides a striking new look for bokes, while creating a distinctive light signature, improving the chance to be noticed and seen.





Light output is determined by the total amount of light coming out-the-front (OTF) of the light and is related to the LEDs efficiency and how much power it uses.



The maximum brightness of a light beam is measured, irrespective of the distance from the light source in candela and in contrast to the range. Candela = lux \* (distance) <sup>2</sup>



A measure of how far away the light will usefully light up an object when its beam is optimally focused.



Impact resistance is tested with drops onto a concrete surface at the specified height with all intended accessories, including batteries, installed.



Lux- The SI unit of illuminance, equal to one lumen per square metre.



Electrically Power Assisted Cycle (EPAC) -25KM



Electrically Speed Pedelec -45KM



Input voltage range



Straßenverkehrs-Zulassungs-Ordnung / German Regulations Authorising the use of vehicles for Road.



Allow for the side visibility, increasing user safety when operating at night.



Aluminum construction for lighter benefit and an excellent thermal conductor.



TH Material is a thermal conductive material for flexible design, except aluminum die cast and extrusion.



International protection marking, marking classifies and rates the degree of protection provided by mechanical casings and electrical enclosures against intrusion, dust, accidental contact and water.



Low beam headlight is aimed lower, toward the road surface, used for normal nighttime driving, where-as high beam is aimed straight ahead, more or less parallel to the road surface, with a more conical beam pattern. This is to give optimal illumination at greater distances ahead. High beams should only be used when there are no other vehicles on the road within a couple hundred yards (a couple hundred meters).



A daytime running light (DRL) is a device on the front of a roadgoing motor vehicle or bicycle, automatically switched on when the vehicle is in drive. Their job is not to help the driver see the road but to help other road users see the vehicle.



## **Headlight Solutions**



## SE-150



- No matter how dark the environment in the mountains or out on the trails, our 7M wide beam & 70M far distant view provides optimal illumination.
- Elegantly shaped with a 6061 full aluminum CNC machined housing.
- Constructed with our thermo-cooling technology, giving the light a compact size with a 150 lux illumination.
- 3 mounting options: fork (down holder), stem front (up holder), handlebar (side holder).
- For 25km EPAC



## Specification

Model Name	SE-150
Model No.	HKSE150D / HKSE150U HKSE110R / HKSE150L
Output	150 lux
Optical Technology	MTi
Light Source	High Intensity LED *2
Color of light emitted	6000K
Input Voltage	5- 16V (DC)
Max Peak Current	1A
Operating temperature	-25 ~ +70
Housing	6061 Aluminum
Wire	AWG 24 (Outer Ø 4mm)
Cable Length	450mm/ 1400mm
IP Rating	IP56
Power Consumption Watt	7.2 W
EMCY	Yes
Type of Approval	StVZo-K / ISO
Weight (excl. cable)	91g
Dimension	Ø 43.5mm x 53 mm (L)
Reflector (optional)	RF1 / RFD



SE1501

Light model: HSKE150D  
Holder: Down  
Cable Length: 1400mm  
Bracket: Aluminum 2 Axles fork bracket  
Reflector: K-Reflector

Part No. SE1501



SE1502

Light model: HSKE110U  
Holder: Up  
Cable Length: 1400mm

Part No. SE1502



SE1503

Light model: HSKE110R  
Holder: Right  
Cable Length: 1400mm  
Bracket: Aluminum handlebar bracket / Ø 31.8 & 35mm

Part No. SE1503



SE1504

Light model: HSKE110L  
Holder: Left  
Cable Length: 1400mm  
Bracket: Aluminum handlebar bracket / Ø 31.8 & 35mm

Part No. SE1504

# SE-110



- Elite performance SE-110 version comes with outstanding illumination: 110 lux output offers 6M wide beam and 60M far distance view.
- This excellent illumination is not only for common road use but also for riding on trails or in particularly dark areas.
- 3 different mounting options: fork (down holder), stem front (up holder), handlebar (side holder).
- StVZO K-Mark certified & ISO compliance
- For 25km EPAC



SE1101

Light model: HSKE110D  
 Holder: Down  
 Cable Length: 1400mm  
 Bracket: Universal fork bracket  
 Reflector: K-Reflector

Part No. SE1101



SE1102

Light model: HSKE110U  
 Holder: Up  
 Cable Length: 1400mm

Part No. SE1102

## Specification

Model Name	SE-110
Model No.	HKSE110D / HKSE110U HKSE110R / HKSE 110L
Output	110 lux
Optical Technology	MTi
Light Source	High Intensity LED *2
Color of light emitted	6000K
Input Voltage	5- 16V (DC)
Max Peak Current	0.8A
Operating temperature	-25--+70
Housing	Aluminum & Plastic
Wire	AWG 24 ( Outer Ø 4mm )
Cable Length	450mm/ 1400mm
IP Rating	IP56
Power Consumption Watt	5.6W
EMCY	Yes
Type of Approval	StVZo-K / ISO
Weight (excl. cable)	83g
Dimension	Ø 43.5mm x 53 mm (L)
Reflector (optional)	RF1/ RFD



SE1103

Light model: HSKE110R  
 Holder: Right  
 Cable Length: 1400mm  
 Bracket: Aluminum handlebar  
 bracket / Ø 31.8 & 35mm

Part No. SE1103



SE1104

Light model: HSKE110L  
 Holder: Left  
 Cable Length: 1400mm  
 Bracket: Aluminum handlebar  
 bracket / Ø 31.8 & 35mm

Part No. SE1104



# SE-70



- Compact and slim design complements every type of bicycle.
- 70 lux with 4.5M wide beam and 45M far distant view of light distribution.
- 2 holder position (up or down) as options that give flexible mounting on bicycles.
- Super lightweight - only 66 grams.



## Specification

Model Name	SE-70
Model No.	HKSE70D / HKSE70U
Output	70 lux
Optical Technology	MTi
Light Source	High Intensity LED *1
Color of light emitted	6000K
Input Voltage	5- 16V (DC)
Max Peak Current	0.7A
Operating temperature	-25 ~ +70
Housing	Plastic
Wire	AWG 24 ( Outer Ø 4mm )
Cable Length	450mm/ 1400mm
IP Rating	IP56
Power Consumption Watt	2.7W
EMC	Yes
Type of Approval	StVZo-K / ISO
Weight	66g
Dimension	Ø 43.5mm x 49 mm (L)
Reflector (optional)	RF1



SE1101

Light model: HSKE110D  
 Holder: Down  
 Cable Length: 1400mm  
 Bracket: Universal fork bracket  
 Reflector: K-Reflector

Part No. SE1101



SE1102

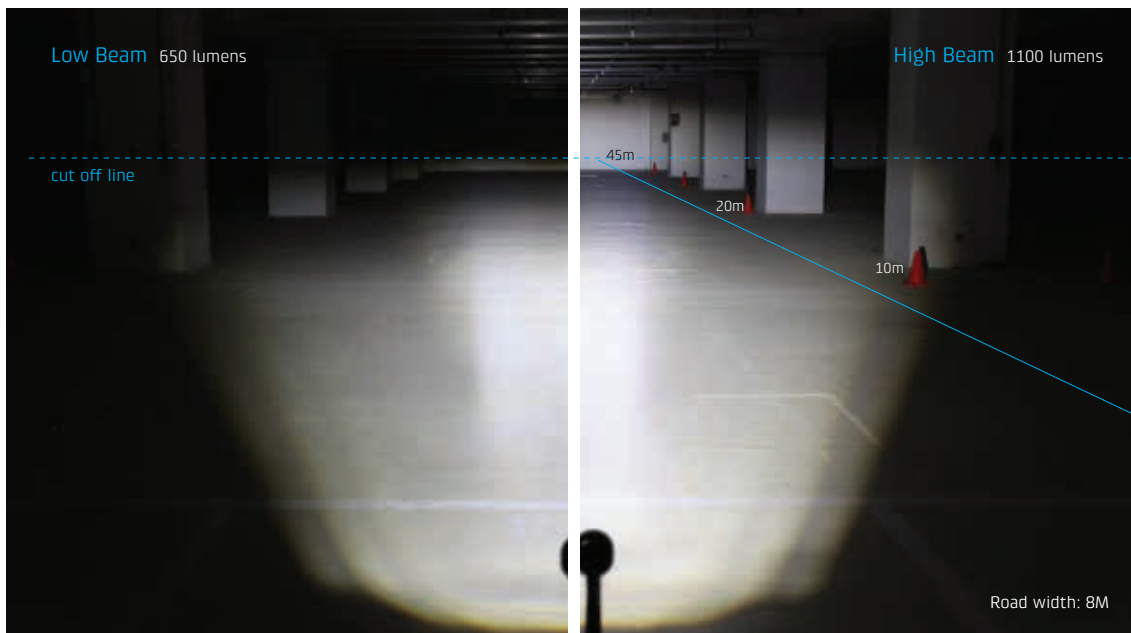
Light model: HSKE110U  
 Holder: Up  
 Cable Length: 1400mm

Part No. SE1102

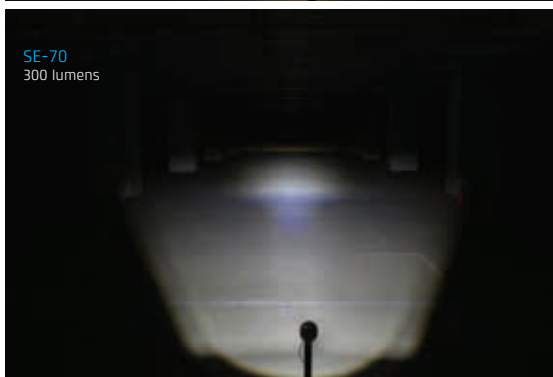
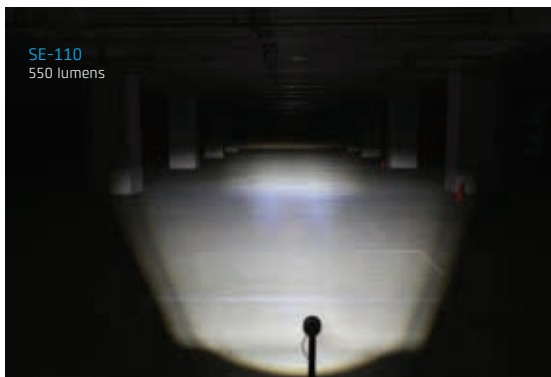
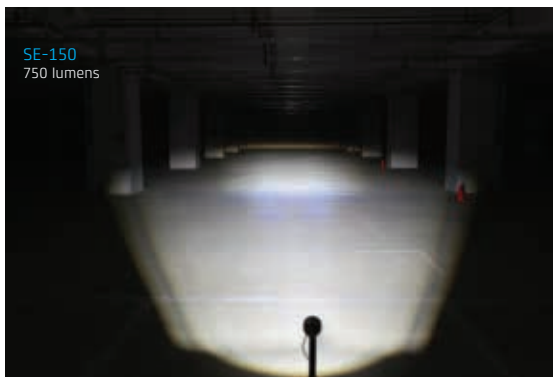


# Beam View

## AE-130



## SE Series



**Safe on your way!**



# Taillight Solutions

## TS-SP

- Rear light solution for 27.2mm / 31.6mm / 30.9mm seat post.
- Neat and clear! Be highly visible from behind on dark streets with a bright and unique rear light.
- 240 degree wide visibility
- StVZO K-Mark certified.



Available for

Ø 31.6 | 30.9 | 27.2mm tubings



TA-SP316

Light model: TKSE-SP316  
Cable Length: 1400mm  
Bracket: for For Ø 31.6 / 30.9mm

Part No. TSSP316



TA-SP272

Light model: TKSE-SP272  
Cable Length: 1400mm  
Bracket: for For Ø 27.2mm

Part No. TSSP316

### Specification

Model Name	TA-SP
Model No.	TKSE-SP316 / TKSE-SP272
Output	7200mcd
Optical Technology	LTi
Light Source	LED *4
Color of Light Emitted	Red
Input Voltage	5 - 16V (DC)
Max. Peak Current	50mA
Operating Temperature	-25~+70
Housing	Plastic
Wire	AWG 26 ( outer Ø3mm )
Cable Length	1400mm
IP rating	IP56
Power Consumption Watt	0.6W
EMC	Yes
Type of Approval	StVZO-K
Weight (ext. cable)	18g (without bracket)
Dimension	18 (H)x17 (D)x 38 (W)mm
Bracket	For Ø 31.6 / 30.9/ 27.2mm

## TS-RK

- Small, slim, lightweight-our rear carrier solution is a perfect rear light, suitable for 50mm and 80mm rack mounts.
- StVZO K-Mark certified
- Uses LTi technology that can be viewed from different angles.
- 240 degree wide visibility
- The lenticular lens provides a uniformed beam distribution to increase safety with greater visibility. It's compact but powerful!!



TS-RK 50

Light model: TKSE-RR500  
Cable Length: 1400mm  
For 50mm carrier mount

Part No. TSRR50



TS-RK 80

Light model: TKSE-RR800  
Cable Length: 1400mm  
For 80mm carrier mount

Part No. TSRR80

### Specification

Model Name	TS-RK
Model No.	TKSE-RR500/ TKSE-RR800
Output	7200mcd
Optical Technology	LTi
Light Source	LED *4
Color of Light Emitted	Red
Input Voltage	5 - 16V (DC)
Max. Peak Current	50mA
Operating Temperature	-25~+70
Housing	Plastic
Wire	AWG 26 ( outer Ø3mm )
Cable Length	1400mm
IP rating	IP56
Power Consumption Watt	0.6W
EMC	Yes
Type of Approval	StVZO-K
Weight (ext. cable)	20g (RR500)/ 23g(RR800)
Dimension	18 (H)x17 (D)x 38 (W)mm
Bracket	18 (H)x17 (D)x 65 (W)mm (RR500) 18 (H)x17 (D)x 96 (W)mm (RR800)

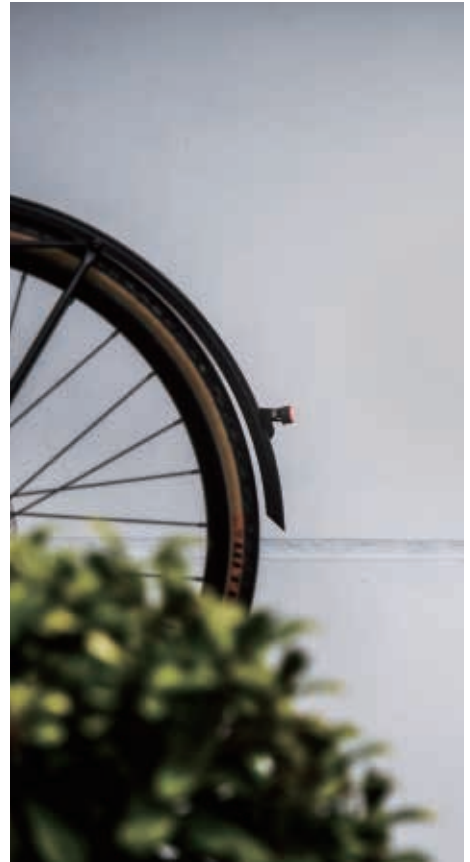


**Innovative,  
Advanced,  
Long lasting**



## TS-FD

- Neat and clean rear light solution for bicycle fender.
- Uses LTi technology that can be viewed from slightly different angles, be seen!
- Compact size and lightweight only at 18g.
- 240 degree wide visibility
- For 25KM EPAC.
- StVZO K-Mark certified.



TS-FD

Light model: TKSE-FD  
Cable Length: 1400mm  
Fender connector included.

Part No. TSFD

### Specification

Model Name	TS-FD
Model No.	TKSE-FD
Output	7200mcd
Optical Technology	LTi
Light Source	LED *4
Color of Light Emitted	Red
Input Voltage	5 - 16V (DC)
Max. Peak Current	50mA
Operating Temperature	-25~+70
Housing	Plastic
Wire	AWG 26 ( outer Ø3mm )
Cable Length	1400mm
IP rating	IP56
Power Consumption Watt	0.6W
EMC	Yes
Type of Approval	StVZO-K
Weight (ext. cable)	18g
Dimension	18 (H)x17 (D)x 38 (W)mm



# Accessories

	Item No	Description	Compatibility
	HB31850	Aluminum handlebar bracket/ Mount: Ø31.8 & 35mm	HKSE110R / HKSE150R / HKAE130R HKSE110L / HKSE150L / HKAE130L
	FK2A	Aluminum 2 Axles fork bracket	HKSE70D / HKSE110D / HKSE150D / HKAE130D
	FKPL	Universal fork bracket	HKSE70D / HKSE110D / HKSE150D / HKAE130D
	STU-1	For Suntour NEX-E, NEX, CR8	HKSE70D / HKSE110D / HKSE150D / HKAE130D
	STU-2	For Suntour NCX-E	HKSE70D / HKSE110D / HKSE150D / HKAE130D
	STU-3	For Suntour MOBIE45/25, MOBIE A32	HKSE70D / HKSE110D / HKSE150D / HKAE130D
	STU-4	For Suntour SF20-NEX-E25	HKSE70D / HKSE110D / HKSE150D / HKAE130D
	GO-B01	GoPro style mount for BOSCH Intuvia & Nyon	HKSE70U / HKSE110U / HKSE150U / HKAE130U
	SP1-272	Seat Post Bracket-Standard / Mount: Ø27.2mm	TS-SP272
	SP1-316	Seat Post Bracket-Standard / Mount: Ø31.6mm & 30.9mm	TS-SP316
	FD-CNT	Fender bridge-Connector	TS-FD
	RF1	K-Reflector Front	HKSE70D / HKSE110D / HKSE150D / HKAE130D
	RFD	K-Reflector Front with Adapter	HKSE110U / HKSE150U / HKAE130U HKSE110R / HKSE150R / HKAE130R HKSE110L / HKSE150L / HKAE130L
	CT22	2-2 pin butt moisture-resistant self-sealing connector	
	CT11	1-1 pin moisture-resistant self-sealing connector	

## Headlights

Model Name	SE-150	SE-110	SE-70
Model No.	HKSE150D / HKSE150U HKSE150R / HKSE150L	HKSE110D / HKSE110U HKSE110R / HKSE110L	HKSE70D / HKSE70U
Output (12V)	150 lux	110 lux	70 lux
Output (6V)	150 lux	110 lux	70 lux
Optical Technology	MTi	MTi	MTi
Light Source	High Intensity LED *2	High Intensity LED *2	High Intensity LED *2
Color of Light Emitted	6000K	6000K	6000K
Input Voltage	5-16V(DC)	5-16V(DC)	5-16V(DC)
Max. Peak Current (12V/6V)	1A	0.8A	0.7A
Operating Temperature	-25 ~ +70°C	-25 ~ +70°C	-25 ~ +70°C
Housing	6061 Aluminum	Aluminum + Plastic	Plastic
Wire	AWG 24 (Outer Ø 4mm)	AWG 24 (Outer Ø 4mm)	AWG 24 (Outer Ø 4mm)
Cable Length	450mm/ 1400mm	450mm/ 1400mm	450mm/ 1400mm
IP rating	IP56	IP56	IP56
Power Consumption Watt	7.2 W	5.6 W	2.7 W
High beam Control Switch			
Control ring			
EMC	Yes	Yes	Yes
Type of Approval	StVZO-K / ISO	StVZO-K / ISO	StVZO-K / ISO
Weight (excl. cable)	91g	83g	66g
Dimension	Ø 43.5mm x 53 mm (L)	Ø 43.5mm x 53 mm (L)	Ø 43.5mm x 49 mm (L)
Reflector (optional)	RF1/ RFD	RF1/ RFD	RF1

## Taillights

Model Name	TS-SP	TS-RK	TS-FD
Model No.	TKSE-SP316 / TKSE-SP272	TKSE-RR500/ TKSE-RR800	TKSE-FD
Output	7200mcd	7200mcd	7200mcd
Optical Technology	LTI	LTI	LTI
Light Source	LED *4	LED *4	LED *4
Color of Light Emitted	Red	Red	Red
Input Voltage	5 - 16V (DC)	5 - 16V (DC)	6 - 16V (DC)
Max. Peak Current	50mA	50mA	50mA
Operating Temperature	-25-+70	-25-+70	-25-+70
Housing	Plastic	Plastic	Plastic
Wire	AWG 26 (Ø3mm)	AWG 26 (Ø3mm)	AWG 26 (Ø3mm)
Cable Length	1400mm	1400mm	1400mm
IP rating	IP56	IP56	IP56
Power Consumption Watt	0.6W	0.6W	0.6W
EMC	Yes	Yes	Yes
Type of Approval	StVZO-K	StVZO-K	StVZO-K
Weight (excl. cable)	18g	20g (RR500)/ 23g(RR800)	18g
Dimension	18 (H)x17 (D)x 38 (W)mm	18 (H)x17 (D)x 65 (W)mm (RR500) 18 (H)x17 (D)x 96 (W)mm (RR800)	18 (H)x17 (D)x 38 (W)mm
Bracket	For Ø 31.6 / 30.9/ 27.2mm		

# System Compatibility

## Headlights

Model Name		SE-150	SE-110	SE-70
Brightness		150 lux	110 lux	70 lux
Voltage		5-16V	5-16V	5-16V
Power Consumption		7.2 W	5.6W	2.7W
Compatibility				
Bosch (25km/h)	Performance CX / Avtive Line / Performance	○	○	○
Bosch (45km/h)	Performance Line HS	○	○	○
Shimano	Step E-8000/ E-5000/ E-6100/ E-7000	○	○	○
Panasonic	GX0, Ultimate	○	○	○
Brose	Drive-S Alu/ Brose-S Mag	○	○	○
Brose	Gen1/ Drive-T/ Drive/ S-Drive	○	○	○
Yamaha (25km/h)	PW-X; PW-ST; PW-TE; PW-CE; PW-X2	○	○	○
Yamaha (45km/h)	X-87	○	○	○
Specialised	SL1.1	○	○	○
BionX		○	○	○
Fazua	Evation	○	○	○
Ebike motion	X35			○
Ebike motion	X35+		○	○

Please note:

This table is reference only. The system output might be programmed.  
 Always check the voltage before connecting any light!  
 The light output may vary depending on the system power supply and should be checked individually.

# #RideSafe #Litemove

2021

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