



BRIGHTSTARTW

Safe and Performance

E BIKE / E MOTO LIGHT SERIES

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PRODUCT	E-MARK APPROVED	POWER	INPUT VOLTAGE	WEATHER PROOF	MATERIAL	WEIGHT	APPLICATION
HEADLIGHT							
*DRL: Daytime Running Light							
 DARKBUSTER E1	ECE R10 ECE R87 ECE R113 (CLASS C)	PASSING BEAM: 13W DRIVING BEAM: 14W *DRL: 5W	12VDC OPTIONAL: 12-120VDC	IP68 (1M)	OSRAM CHIP ALUMINIUM ALLOY (CNC) RoHS W90xH58xD66.7 mm	330 g	L1e-A/B, L2e, L3e-A1, L4e, L5e, L6e PLEVs / E-Scooter / EPAC / E-BIKE / MOPED / Tricycle / Motorcycle / Light Quadricycle
 DARKBUSTER E2	EMC ECE R113 (CLASS C)	PASSING BEAM: 13W DRIVING BEAM: 14W *DRL: 5W	12VDC OPTIONAL: 12-120VDC	IP68 (1M)	OSRAM CHIP ALUMINIUM ALLOY (CNC) RoHS W90xH58xD66.7 mm	315 g	L1e-A/B, L2e, L3e-A1, L4e, L5e, L6e PLEVs / E-Scooter / EPAC / E-BIKE / MOPED / Tricycle / Motorcycle / Light Quadricycle
 DARKBUSTER E3	ECE R10 ECE R113 (CLASS C)	PASSING BEAM: 12W *DRL: 3W	12VDC OPTIONAL: 12-120VDC	IP67	OSRAM CHIP ALUMINIUM ALLOY (CNC) RoHS W&H Ø58xD71 mm	230 g	L1e-A/B, L2e, L3e-A1, L4e, L5e, L6e PLEVs / E-Scooter / EPAC / E-BIKE / MOPED / Tricycle / Motorcycle / Light Quadricycle
 DARKBUSTER E5		PASSING BEAM: 12W POSITION LIGHT: 1W	12VDC OPTIONAL: 12-120VDC	IP67	OSRAM CHIP ALUMINIUM ALLOY (CNC) RoHS W&H Ø58xD71 mm	240 g	L1e-A/B, L2e, L3e-A1, L4e, L5e, L6e PLEVs / E-Scooter / EPAC / E-BIKE / MOPED / Tricycle / Motorcycle / Light Quadricycle
 DARKBUSTER E6	ECE R10 ECE R148 ECE R149 (CLASS C)	PASSING BEAM: 13W DRIVING BEAM: 14W POSITION LIGHT: 2W	12VDC OPTIONAL: 12-120VDC	IP68 (1M)	OSRAM CHIP ALUMINIUM ALLOY (CNC) RoHS W90xH58xD66.7 mm	330 g	L1e-A/B, L2e, L3e-A1, L4e, L5e, L6e PLEVs / E-Scooter / EPAC / E-BIKE / MOPED / Tricycle / Motorcycle / Light Quadricycle
 DARKBUSTER E7	EMC ECE R148 ECE R149 (CLASS D)	PASSING BEAM: 18W DRIVING BEAM: 36W FOG LIGHT: 13W POSITION LIGHT: 3W CORNERING AUXILIARY LIGHTS: LEFT 8W / RIGHT 8W	12VDC OPTIONAL: 12-120VDC	IP67	OSRAM CHIP ALUMINIUM ALLOY RoHS W&H Ø178xD92 mm	1100 g	L1e-A/B, L2e, L3e, L4e, L5e, L6e, L7e PLEVs / E-Scooter / EPAC / E-BIKE / MOPED / Tricycle / Motorcycle / Light Quadricycle / Heavy Quadricycles
 DARKBUSTER E9	EMC ECE R149 (CLASS B)	PASSING BEAM: 7W DRIVING BEAM: 9W	6V/12VDC OPTIONAL: 6-120VDC	IP68 (1M)	OSRAM CHIP ALUMINIUM ALLOY RoHS W&H Ø58xD62 mm	150 g	L1e-A/B PLEVs / E-Scooter / EPAC / E-BIKE / MOPED
 DARKBUSTER E10	EMC ECE R149 (CLASS B)	PASSING BEAM: 7W DRIVING BEAM: 9W POSITION LIGHT: 1W	6V/12VDC OPTIONAL: 6-120VDC	IP68 (1M)	OSRAM CHIP ALUMINIUM ALLOY RoHS W&H Ø58xD62 mm	180 g	L1e-A/B PLEVs / E-Scooter / EPAC / E-BIKE / MOPED
 DARKBUSTER E11 COMPACT SIZE	EMC ECE R149 (CLASS B)	PASSING BEAM: 7W	6V/12VDC OPTIONAL: 6-120VDC	IP68 (1M)	OSRAM CHIP ALUMINIUM ALLOY RoHS W Ø43xH56xD45.3 mm	90 g	L1e-A/B PLEVs / E-Scooter / EPAC / E-BIKE / MOPED
TAIL LIGHT							
 DARKBUSTER T2	EMC ECE R50	1W / 2W	12VDC OPTIONAL: 6-120VDC	IP67	OSRAM CHIP ALUMINIUM ALLOY (CNC) RoHS W64.7xH15.6xD26.2 mm	45 g	L1e-A/B, L2e, L3e, L4e, L5e, L6e, L7e PLEVs / E-Scooter / EPAC / E-BIKE / MOPED / Tricycle / Motorcycle / Light Quadricycle / Heavy Quadricycles
 DARKBUSTER T2E	EMC ECE R50	0.5W / 1W	12VDC OPTIONAL: 6-120VDC	IP67	OSRAM CHIP PLASTIC RoHS W67.2xH18.1xD21 mm	35 g	L1e-A/B, L2e, L3e, L4e, L5e, L6e, L7e PLEVs / E-Scooter / EPAC / E-BIKE / MOPED / Tricycle / Motorcycle / Light Quadricycle / Heavy Quadricycles
TURN SIGNAL							
 DARKBUSTER A1 SOLID / FLAT	EMC ECE R148	1W	6-12VDC OPTIONAL: 6-120VDC	IP67	TAIWAN CHIP PLASTIC RoHS S: W112.8xH18.5xD24.5 mm F: W67.2xH18.1xD21 mm	SOLID 45 g FLAT 30 g	L1e-A/B, L2e, L3e, L4e, L5e, L6e, L7e PLEVs / E-Scooter / EPAC / E-BIKE / MOPED / Tricycle / Motorcycle / Light Quadricycle / Heavy Quadricycles
POSITION + TURN SIGNAL							
 DARKBUSTER AT1-F SOLID / FLAT	EMC ECE R148	1W	6-12VDC OPTIONAL: 6-120VDC	IP67	TAIWAN CHIP PLASTIC RoHS S: W112.8xH18.5xD24.5 mm F: W67.2xH18.1xD21 mm	SOLID 45 g FLAT 30 g	L1e-A/B, L2e, L3e, L4e, L5e, L6e, L7e PLEVs / E-Scooter / EPAC / E-BIKE / MOPED / Tricycle / Motorcycle / Light Quadricycle / Heavy Quadricycles
 DARKBUSTER AT1-R SOLID / FLAT	EMC ECE R148	1W	6-12VDC OPTIONAL: 6-120VDC	IP67	OSRAM CHIP PLASTIC RoHS S: W112.8xH18.5xD24.5 mm F: W67.2xH18.1xD21 mm	SOLID 45 g FLAT 30 g	L1e-A/B, L2e, L3e, L4e, L5e, L6e, L7e PLEVs / E-Scooter / EPAC / E-BIKE / MOPED / Tricycle / Motorcycle / Light Quadricycle / Heavy Quadricycles



E-MARK HEADLIGHT HIGH & LOW BEAM DAYTIME RUNNING LIGHT



DARKBUSTER

E1

E-MARK APPROVED

R10

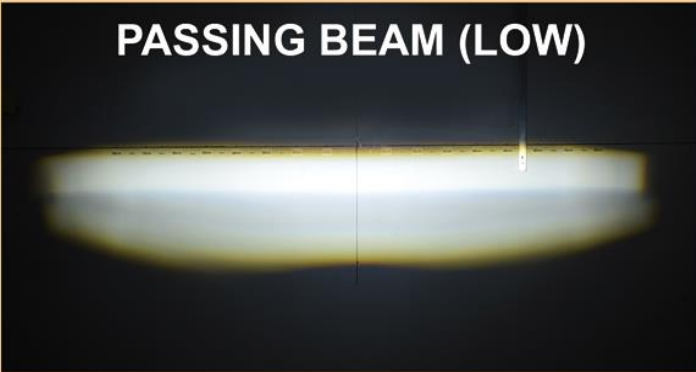
R87

R113

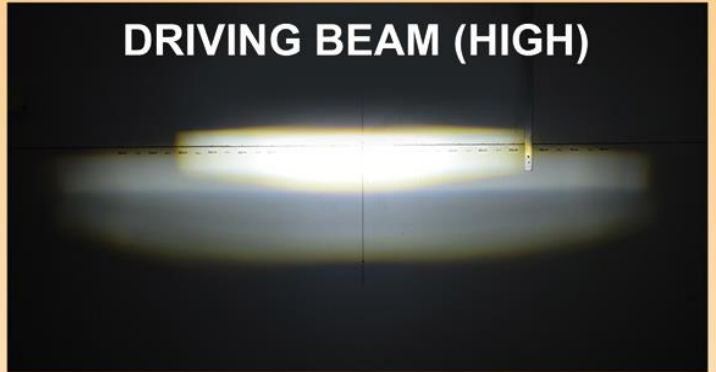
Class C



PASSING BEAM (LOW)



DRIVING BEAM (HIGH)



Application **L1e-A/B, L2e, L3e-A1, L4e, L5e, L6e**

E-Bike / Micro E-Scooter / E-Cargo Bike / Moped / E-Motorbike / Motorcycle / E-Tricycle / Light Quadricycle



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ODM/OEM Service (Made By Taiwan)



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E-MARK, BETTER SAFETY & QUALITY

E Bike / E Moto

DARKBUSTER E1



**HIGH & LOW BEAM /
DAYTIME RUNNING LIGHT (DRL)**

E-MARK UNECE R113 Class C & R87

ECE R10 (EMC) / R87 (DRL) / R113

IP68 Waterproof 1m Depth



90 mm

E-MARK Approved

Low/High Beam: ECE R113+R10
Daytime Running Light: ECE R87

Inside Chip

OSRAM Chip
Low: 13W / High: 14W
Daytime Running Light: 5W

Color Temperature

6000K±500K

Luminous Flux
(Raw Lumens)

Low: 1250LM(330lx) / High: 1550LM(420lx)
Daytime Running Light: 400LM

Input Voltage

12VDC / 12-120VDC (OPTIONAL)

Housing

Aluminum Alloy (CNC)

Operating Temperature

-20°C ~ +60°C

Applications

L1e-A/B / L2e / L3e(A1) / L4e / L5e / L6e

QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test

S14.6.9 Sealing Test / Salt Spraying Test (ASTM B117-73)

ODM/OEM Service (Made By Taiwan)

E-MARK HEADLIGHT HIGH & LOW BEAM DAYTIME RUNNING LIGHT



DARKBUSTER

E2

E-MARK APPROVED

R10

R113

Class C



PASSING BEAM (LOW)



DRIVING BEAM (HIGH)



Application **L1e-A/B, L2e, L3e-A1, L4e, L5e, L6e**

E-Bike / Micro E-Scooter / E-Cargo Bike / Moped / E-Motorbike / Motorcycle / E-Tricycle / Light Quadricycle



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E Bike / E Moto

DARKBUSTER E2



**HIGH & LOW BEAM /
DAYTIME RUNNING LIGHT**
E-MARK UNECE R113 Class C
ECE R10_(EMC) / R113
IP68 Waterproof 1m Depth



E-MARK Approved

Low/High Beam: ECE R113+R10

Inside Chip

OSRAM Chip
Low: 13W / High: 14W
Daytime Running Light: 5W

Color Temperature

6000K±500K

Luminous Flux
(Raw Lumens)

Low: 1250LM(330lx) / High: 1550LM(420lx)
Daytime Running Light: 400LM

Input Voltage

12VDC / 12-120VDC (OPTIONAL)

Housing

Aluminum Alloy (CNC)

Operating Temperature

-20°C ~ +60°C

Applications

L1e-A/B / L2e / L3e(A1) / L4e / L5e / L6e

QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test
S14.6.9 Sealing Test / Salt Spraying Test (ASTM B117-73)

ODM/OEM Service (Made By Taiwan)

E-MARK HEADLIGHT LOW BEAM DAYTIME RUNNING LIGHT



DARKBUSTER

E3

E-MARK APPROVED

R10

R113

Class C



Application **L1e-A/B, L2e, L3e-A1, L4e, L5e, L6e**

E-Bike / Micro E-Scooter / E-Cargo Bike / Moped / E-Motorbike / Motorcycle / E-Tricycle / Light Quadricycle



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E Bike / E Moto

DARKBUSTER E3



LOW BEAM / DAYTIME RUNNING LIGHT

More Lumen, Less Consumption

ECE R10(EMC) / R113

IP67 Waterproof

E-MARK Approved

Low Beam: ECE R113+R10

Inside Chip

OSRAM Chip

Low: 12W

Daytime Running Light: 3W

Color Temperature

6000K±500K

Luminous Flux
(Raw Lumens)

Low Beam: 1200LM(300lx)

Daytime Running Light: 200LM

Input Voltage

12VDC / 12-120VDC (OPTIONAL)

Housing

Aluminum Alloy (CNC)

Operating Temperature

-20°C ~ +60°C

Applications

L1e-A/B / L2e / L3e(A1) / L4e / L5e / L6e



QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test

S14.6.9 Sealing Test / Salt Spraying Test (ASTM B117-73)

ODM/OEM Service (Made By Taiwan)



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E-MARK, BETTER SAFETY & QUALITY

E Bike / E Moto

DARKBUSTER

E4 Compact Size Multifunction Light
HIGH / LOW BEAM & DAYTIME RUNNING LIGHT



HIGH & LOW BEAM / DAYTIME RUNNING LIGHT

More Lumen, Less Consumption

1100 LM ONLY 10 WATTS @0.7 AMPS

FROM 12V ELECTRICAL SYSTEM

Approved

Passing Beam : ECE R113

Inside Chip

Low: 12W / High: 12W
Daytime Running Light: 3W

Color Temperature

6000K±500K

Luminous Flux
(Raw Lumens)

Low:1200LM(300 lx)
High:1200LM(300 lx)
Daytime Running Light:200LM

Input Voltage

12VDC / 12-120VDC (OPTIONAL)

Housing

Aluminum Alloy (CNC)

Operating Temperature

-20°C~+60°C



QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test

S14.6.9 Sealing Test / Salt Spraying Test(ASTM B117-73)

ODM/OEM Service (Made By Taiwan)

E-MARK HEADLIGHT HIGH & LOW BEAM POSITION LIGHT



DARKBUSTER

E6

E-MARK APPROVED

R10

R148

R149

Class C

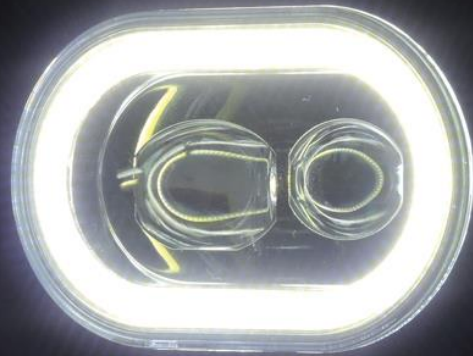


POSITION LIGHT

&

LOW BEAM
DRL
Daytime Running Light

HIGH BEAM
DRIVING BEAM



PASSING BEAM (LOW) DAYTIME RUNNING LIGHT



DRIVING BEAM (HIGH)



Application **L1e-A/B, L2e, L3e-A1, L4e, L5e, L6e**

E-Bike / Micro E-Scooter / E-Cargo Bike / Moped / E-Motorbike / Motorcycle / E-Tricycle / Light Quadricycle



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E Bike / E Moto DARKBUSTER

E6



POSITION LIGHT

HIGH BEAM DRIVING BEAM & LOW BEAM DAYTIME RUNNING LIGHT

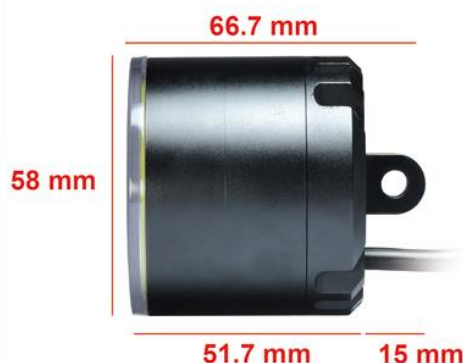
E-MARK Class C

EMC

Position Light

R10 / R148 / R149

IP68 Waterproof 1m Depth



90 mm

E-MARK Approved

Position Light: ECE R148
Low/High Beam: ECE R149+R10

Inside Chip

OSRAM Chip
Low: 13W / High: 14W
Taiwan Highlight Chip
Position Light: 2W

Color Temperature

6000K±500K

Luminous Flux
(Raw Lumens)

Low: 1250LM(330lx) / High: 1550LM(420lx)
Position Light: 200LM

Input Voltage

12VDC / 12-120VDC (OPTIONAL)

Housing

Aluminum Alloy (CNC)

Operating Temperature

-20°C ~ +60°C

Applications

L1e-A/B / L2e / L3e(A1) / L4e / L5e / L6e

QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test
S14.6.9 Sealing Test / Salt Spraying Test (ASTM B117-73)

ODM/OEM Service (Made By Taiwan)

HIGH BEAM

ECE R149

**AUX. LIGHT
RIGHT**

**AUX. LIGHT
LEFT**

**FOG
LIGHT**

ECE R149

LOW BEAM

ECE R149

**POSITION
&
DRL**

DAYTIME RUNNING LIGHT

ECE R148

E-MARK&DOT MOTORCYCLE HEADLIGHT

E7 7inch (Ø178mm)



ECE: R148 & R149 APPROVED

L1e ~ L7e Class D

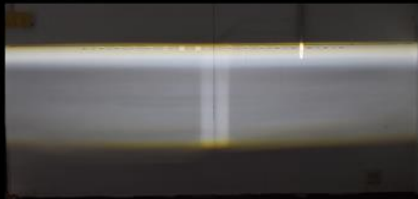


7 in 1

EXCLUSIVE DESIGN

Worldwide Invention Patent

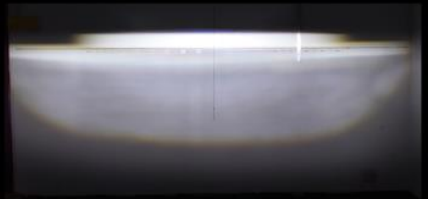
FOG LIGHT



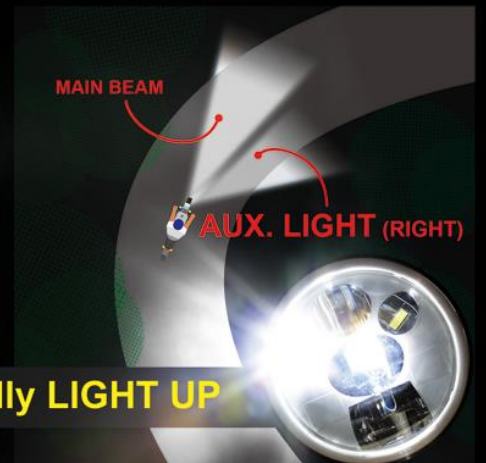
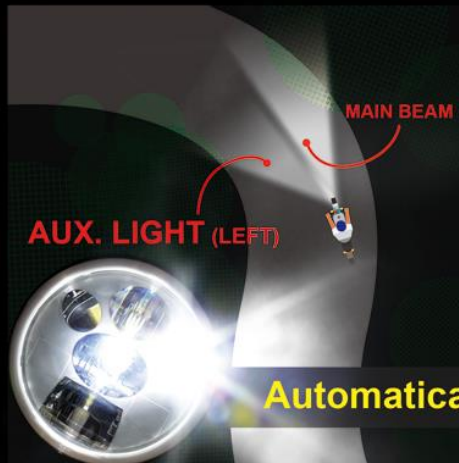
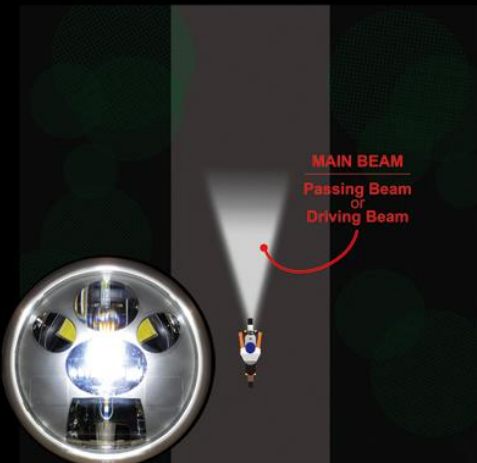
PASSING BEAM LOW BEAM



DRIVING BEAM HIGH BEAM



CORNERING AUXILIARY LIGHT (LEFT & RIGHT SIDES)



Automatically LIGHT UP



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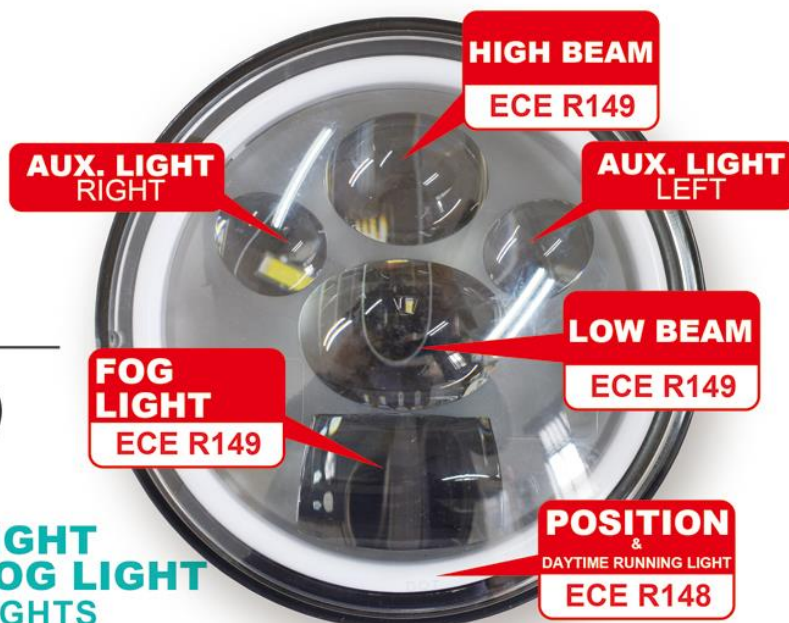
DARKBUSTER

E7 Motorcycle LED Headlight



7in1

**POSITION LIGHT /
DAYTIME RUNNING LIGHT
HIGH / LOW BEAM & FOG LIGHT
CORNERING AUXILIARY LIGHTS**



E-MARK Class D

R148 Position Light

R149 Driving Beam / Passing Beam
Fog Light

Inside Chip

OSRAM Chip
Passing Beam (Low): 18W
Driving Beam (High): 36W
Fog Light: 13W
Position Light: 3W
Cornering Auxiliary Lights:
LEFT 8W / RIGHT 8W

Color Temperature

6000K±500K

Luminous Flux (Raw Lumens)

Passing Beam (Low): 1800 LM
Driving Beam (High): 3600 LM
Fog Light: 1300 LM
Position Light: 300 LM
Cornering Auxiliary Lights:
LEFT 800 LM / RIGHT 800 LM

Input Voltage

12VDC / 12-120VDC (OPTIONAL)

Housing

Aluminum Alloy

Operating Temperature

-20°C~+60°C

Applications

L1e-A/B / L2e / L3e / L4e / L5e / L6e / L7e



178 mm



161.40 mm

92 mm

QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test

S14.6.9 Sealing Test / Salt Spraying Test(ASTM B117-73)

ODM/OEM Service (Made By Taiwan)

E-MARK HEADLIGHT HIGH & LOW BEAM



DARKBUSTER

E9



E-MARK APPROVED

R149

Class B



Weight Only

150
g

PASSING BEAM (LOW)



DRIVING BEAM (HIGH)



30m



60m



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E-MARK, BETTER SAFETY & QUALITY

DARKBUSTER

E9



HIGH & LOW BEAM

E-MARK UNECE R149 Class B

Most Compact & Lightweight
Weight Only 150 g

IP68 Waterproof 1m Depth



62 mm

58 mm



44 mm

18 mm



E-MARK Approved

High & Low Beam: ECE R149

Inside Chip

OSRAM Chip
Passing Beam (Low): 7W
Driving Beam (High): 9W

Color Temperature

6000K±500K

Luminous Flux
(Raw Lumens)

Passing Beam (Low): 800 LM (200lx)
Driving Beam (High): 1000 LM (250lx)

Input Voltage

6VDC / 12VDC / 6-120VDC (OPTIONAL)

Housing

Aluminum Alloy

Operating Temperature

-20°C~+60°C

Applications

L1e-A/B

QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test

S14.6.9 Sealing Test / Salt Spraying Test(ASTM B117-73)

ODM/OEM Service (Made By Taiwan)

E-MARK HEADLIGHT HIGH & LOW BEAM POSITION LIGHT



DARKBUSTER

E10



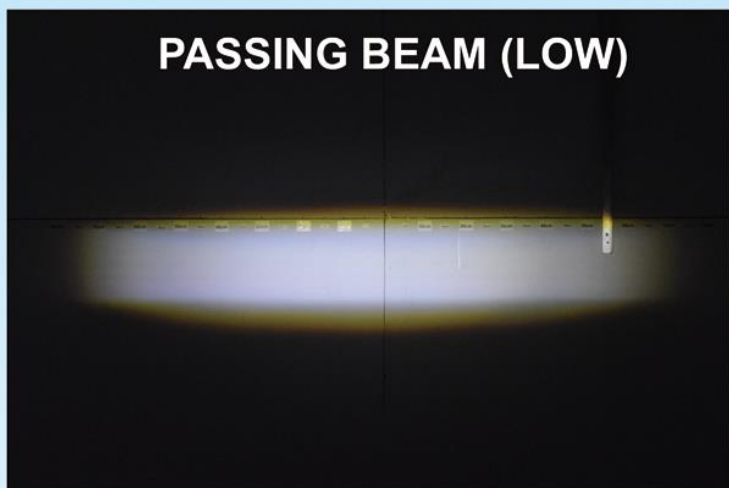
E-MARK APPROVED

R149

Class B



PASSING BEAM (LOW)



DRIVING BEAM (HIGH)



30m



60m



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DARKBUSTER

E10



HIGH & LOW BEAM
E-MARK UNECE R149 Class B
Front Circle Position Light

IP68 Waterproof 1m Depth



E-MARK Approved

High & Low Beam: ECE R149

Inside Chip

OSRAM Chip
Passing Beam (Low): 7W
Driving Beam (High): 9W
Position Light: 1W

Color Temperature

6000K±500K

Luminous Flux
(Raw Lumens)

Passing Beam (Low): 800 LM (200lx)
Driving Beam (High): 1000 LM (250lx)

Input Voltage

6VDC / 12VDC / 6-120VDC (OPTIONAL)

Housing

Aluminum Alloy

Operating Temperature

-20°C~+60°C

Applications

L1e-A/B

QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test
S14.6.9 Sealing Test / Salt Spraying Test(ASTM B117-73)

ODM/OEM Service (Made By Taiwan)

E-MARK HEADLIGHT LOW BEAM



DARKBUSTER

E11



E-MARK APPROVED

R149

Class B



Weight Only **90 g**

PASSING BEAM (LOW)



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E-MARK, BETTER SAFETY & QUALITY

DARKBUSTER

E11



E-MARK ECE R149 (LOW BEAM)

CLASS B Certified & DOT Compliant

The Most Compact Size & Lightweight **43 mm**

Weight Only **90g**

IP68 Waterproof **1m Depth**



45.3 mm



56 mm



E-MARK Approved

Low Beam: ECE R149

Inside Chip

OSRAM Chip
Passing Beam (Low): 7W

Color Temperature

6000K±500K

Luminous Flux
(Raw Lumens)

Passing Beam (Low): 800 LM (200lx)

Input Voltage

6VDC / 12VDC / 6-120VDC (OPTIONAL)

Housing

Aluminum Alloy

Operating Temperature

-20°C ~ +60°C

Applications

L1e-A/B

QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test

S14.6.9 Sealing Test / Salt Spraying Test (ASTM B117-73)

ODM/OEM Service (Made By Taiwan)

E-MARK TAIL LIGHT

Rear Position + Brake + License Plate Light



DARKBUSTER T2

EMC DESIGN



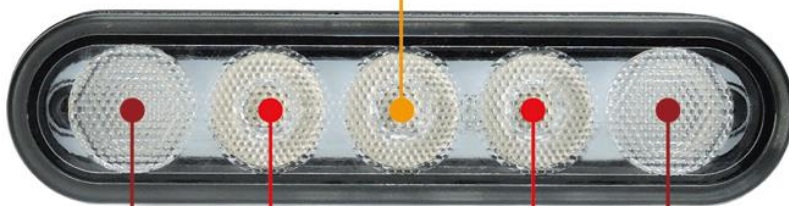
270° ULTRA-WIDE-ANGLE BEAM / ECE R50 APPROVED



**BRIGHTSTARTW
EXCLUSIVE**

LINEAR OPTICAL DESIGN

Center Beam



Standard Beam

Flood Beam

SUPER LOW

1w

Power Consumption

Highest Visibility Rear Light

REAL
270°

ULTRA-WIDE-ANGLE BEAM



EXCLUSIVE OPTICAL DESIGN

Be Seen Over

300

Meters



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ODM/OEM Service (Made By Taiwan)



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E-MARK, BETTER SAFETY & QUALITY

E Bike / E Moto

DARKBUSTER

T2 3 In 1 E-BIKE Tail Light



Exclusive E-MARK ECE R50

(Brake Light / Position Light / License Plate Light)

Excellent **EMC** Design

IP67 Waterproof

64.70 mm



26.20 mm

15.60 mm



E-MARK Approved

ECE R50

Position Light / Brake Light / License Plate Light

Inside Chip

OSRAM Chip

Color Temperature

Rear Light: Red
Brake Light: Red
License Plate Light: White

Input Voltage

12VDC / 6-120VDC (OPTIONAL)

Weatherproof

IP67

Housing

Aluminum Alloy (CNC)

Operating Temperature

-20°C ~ +60°C



50 mm

QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test

S14.6.9 Sealing Test / Salt Spraying Test (ASTM B117-73)

ODM/OEM Service (Made By Taiwan)

E-MARK TURN SIGNAL LIGHTS

DARKBUSTER A1 & AT1 Series Multifunctional Turn Signal Lights

A1

Turn Signal Light

2 *Light Pattern Choice*

Standard & Sequential Blink

Flat



Solid



Solid



Flat

AT1-F

2 in 1

**Front Position
& Turn Signal Light**

Solid



Flat

AT1-R

3 in 1

**Rear Position &
Brake Light & Turn Signal Light**



ECE R148 APPROVED



※Motorcycle LED Headlight is DARKBUSTER E7



BRIGHTSTARTW
www.brightstartw.com

ODM/OEM Service (Made By Taiwan)



BRIGHTSTARTTW
www.brightstarttw.com

E-MARK, BETTER SAFETY & QUALITY

E-Bike / E-Moto

DARKBUSTER

A1 Turn Signal Light

Standard Pattern / Sequential Blink Pattern



Usable For Front & Rear Turn Signal Light

With E-MARK ECE R148

Excellent **EMC** Design

IP67 Waterproof

E-MARK Approved

ECE R148 (Turn Signal Light)

Inside Chip

1W

Color Temperature

Turn Signal Light : Amber

Input Voltage

6-12VDC / 6-120VDC (OPTIONAL)

Weatherproof

IP67

Housing

Plastic

Operating Temperature

-20°C ~ +60°C

Solid



Flat



Flat
18.10 mm

Solid
18.50 mm



21 mm



24.50 mm

Flat Back



50 mm

QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test

S14.6.9 Sealing Test / Salt Spraying Test (ASTM B117-73)

ODM/OEM Service (Made By Taiwan)



BRIGHTSTARTTW
www.brightstarttw.com

E-MARK, BETTER SAFETY & QUALITY

E-Bike / E-Moto

DARKBUSTER

AT1-F Multifunctional Front Position Light



Multifunctional Front Position Light
Position Light + Turn Signal Light

Compliant With ECE R148

Excellent **EMC** Design

IP67 Waterproof

Compliant With E-MARK ECE R148 Requirement

Inside Chip

1W

Color Temperature

Turn Signal Light : Amber
Position Light : White

Input Voltage

6-12VDC / 6-120VDC (OPTIONAL)

Weatherproof

IP67

Housing

Plastic

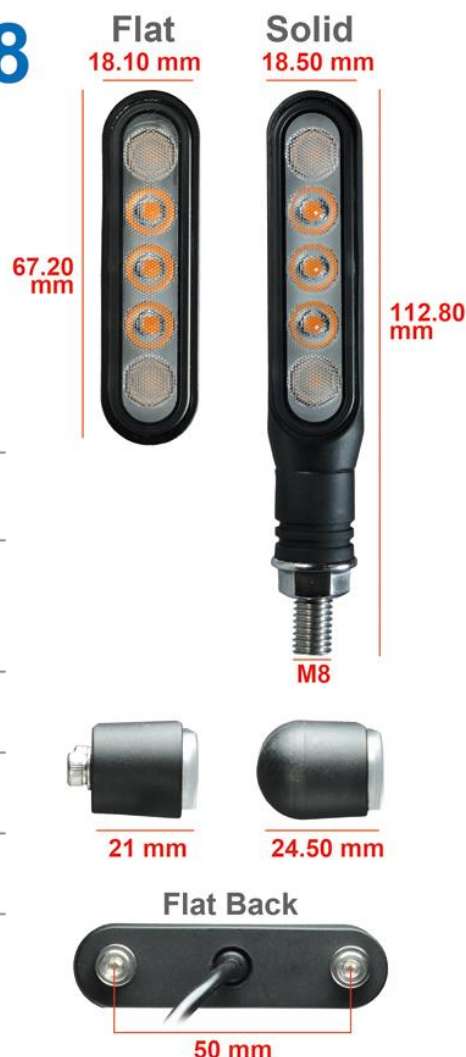
Operating Temperature

-20°C ~ +60°C

QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test

S14.6.9 Sealing Test / Salt Spraying Test (ASTM B117-73)



ODM/OEM Service (Made By Taiwan)

E-Bike / E-Moto

DARKBUSTER

AT1-R Multifunctional Rear Position Light



Multifunctional Motorcycle Rear Position Light
Position Light + Brake + Turn Signal Light

Compliant With ECE R148

Excellent **EMC** Design

IP67 Waterproof

Compliant With E-MARK ECE R148 Requirement

Inside Chip

1W

Color Temperature

Turn Signal Light : Amber
Rear Position Light : Red
Brake Light: Red

Input Voltage

6-12VDC / 6-120VDC (OPTIONAL)

Weatherproof

IP67

Housing

Plastic

Operating Temperature

-20°C ~ +60°C

QUALITY ASSURANCE Based on FMVSS / SAE Standards

S14.4.2.3 Heat Test / S14.5.1 Vibration Test / S14.6.6.3 Temperature Cycle Test

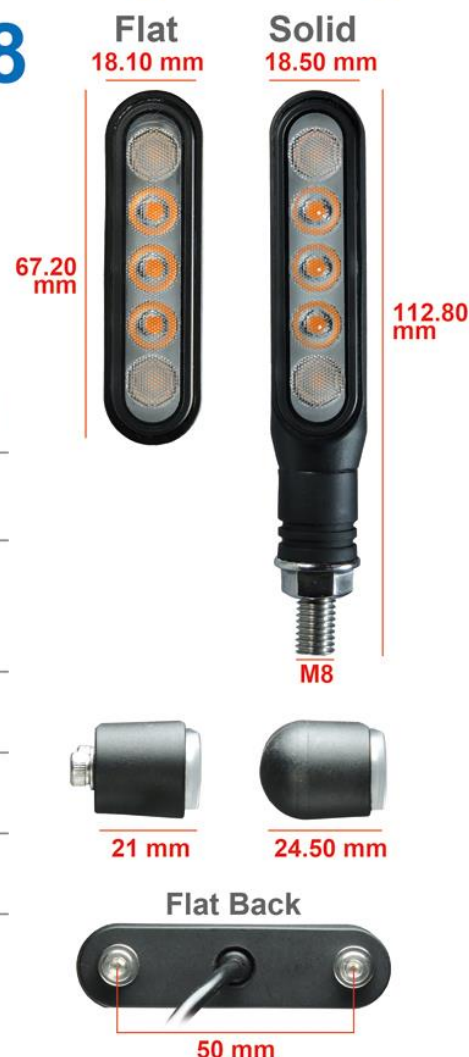
S14.6.9 Sealing Test / Salt Spraying Test (ASTM B117-73)



Solid



Flat



ODM/OEM Service (Made By Taiwan)