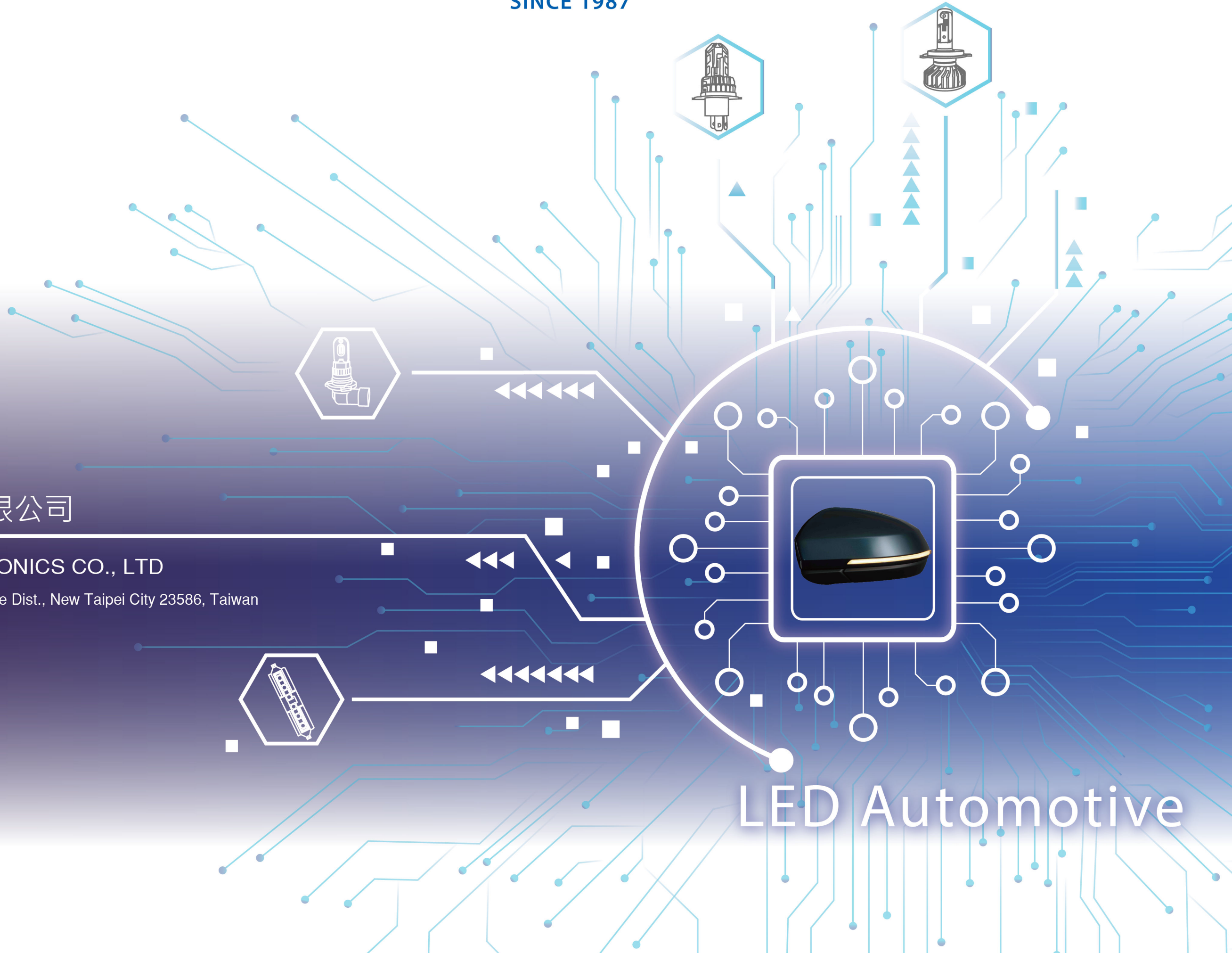




PARA
light
SINCE 1987



光鼎電子股份有限公司

PARA LIGHT ELECTRONICS CO., LTD

11F, No. 8, Jiankang Rd., Zhonghe Dist., New Taipei City 23586, Taiwan

+886-2-2225-3733

para@para.com.tw

www.para.com.tw



LED Automotive

OUR HISTORY

PARA LIGHT was founded in 1987, and listed on Taiwan Stock Exchange (TWSE) in 2008(ticker number 6226).



PARA LIGHT is now one of the global leaders in LED Design and Manufacturing. 9 years ago, PARA LIGHT established the first OPTICAL LAB, by which PARA LIGHT is able to provide Optical Solutions, and also expands our services to LED MODULE Design and Manufacturing.

Chairman Mr. David Ma
Capital USD 37 million
No. of Employee 676

PARA LIGHT's manufacturing facilities are located in China (Nanjing and Lianyungan), and Myanmar (Yangon), certified with ISO 14001, ISO 9001, and IATF 16949. PARA LIGHT produces high quality products complied to REACH and RoHS standard.

Sales offices are based in Taiwan, China, USA and India. Our sales team and certified distributors are located around the world to provide immediate services and prompt delivery to the customers.

A close-up photograph of a car's headlight and grille, with the company's core values overlaid in white text.

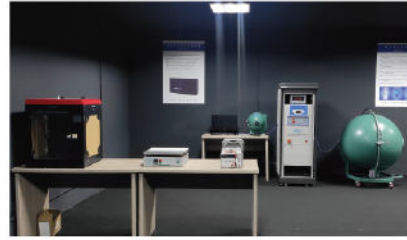
INNOVATE COOPERATION INTEGRITY EVELOPMENT

Adhering to the enterprise philosophy of "customer first, service quality, creativity reality, skillfulness technique has always been the mission statement at the Para Light Electronics.

Factory Introduction



P.08 IATF 16949



P.10 Optical Center



P.11 ECE regulation

Standard Headlight



P.14 F2 Series



P.16 PAH Series

Customized Headlight



P.20 Polo H7 Series

2 & 4-Wheel Auto Lamp



P.24 X1-T10



P.24 N1 Series



P.26 X5 Series



P.27 N6 Series

Auto Interior Lighting



P.32 Ambient Lighting

OES Products



P.36 Dynamic Turn Signal

FACTORY INTRODUCTION

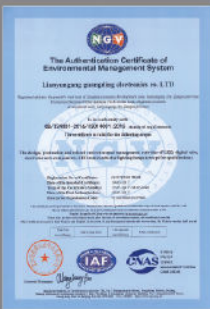
IATF 16949	08
Optical Center	10
ECE regulation	11



IATF16949

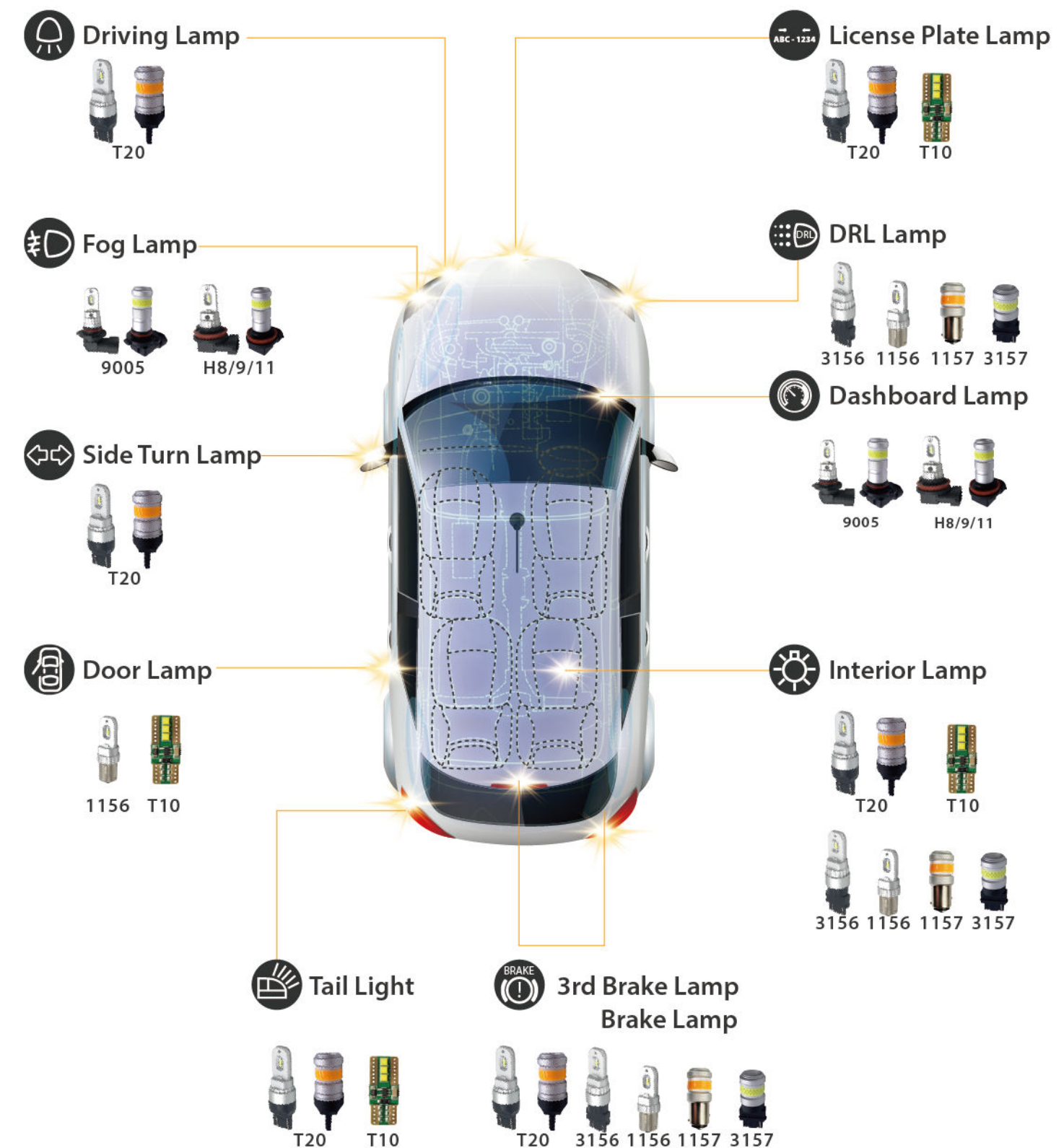


ISO9001

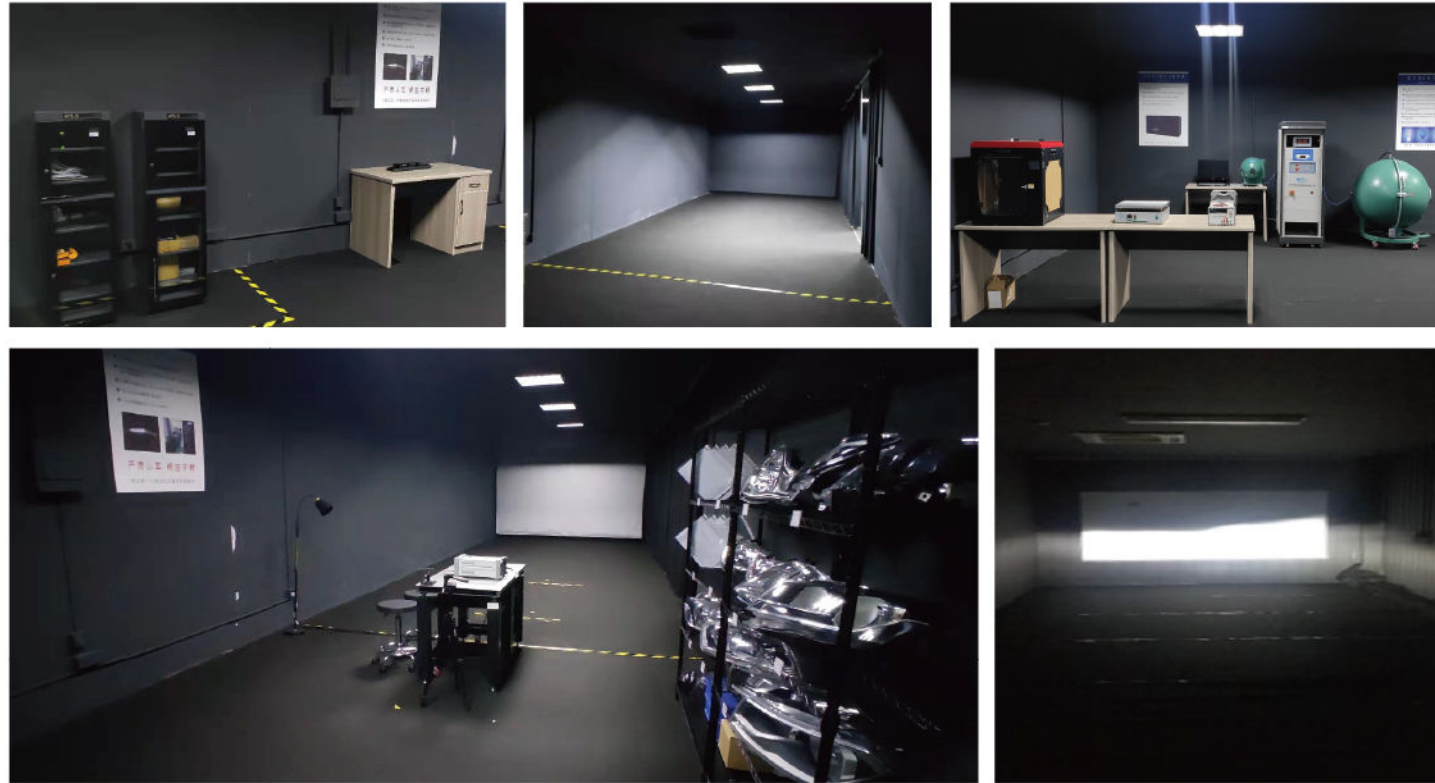


ISO14001





Optical Center

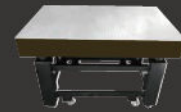


Testing equipment

Goniophotometer



Hot plate



Optical table



Multi-axis translation stage



Thermal imager



Chroma illuminance meter

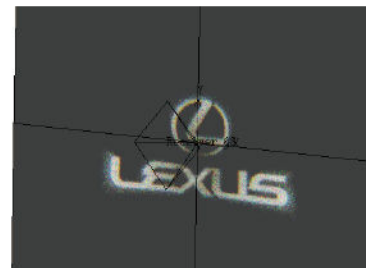
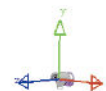


Integrating sphere system



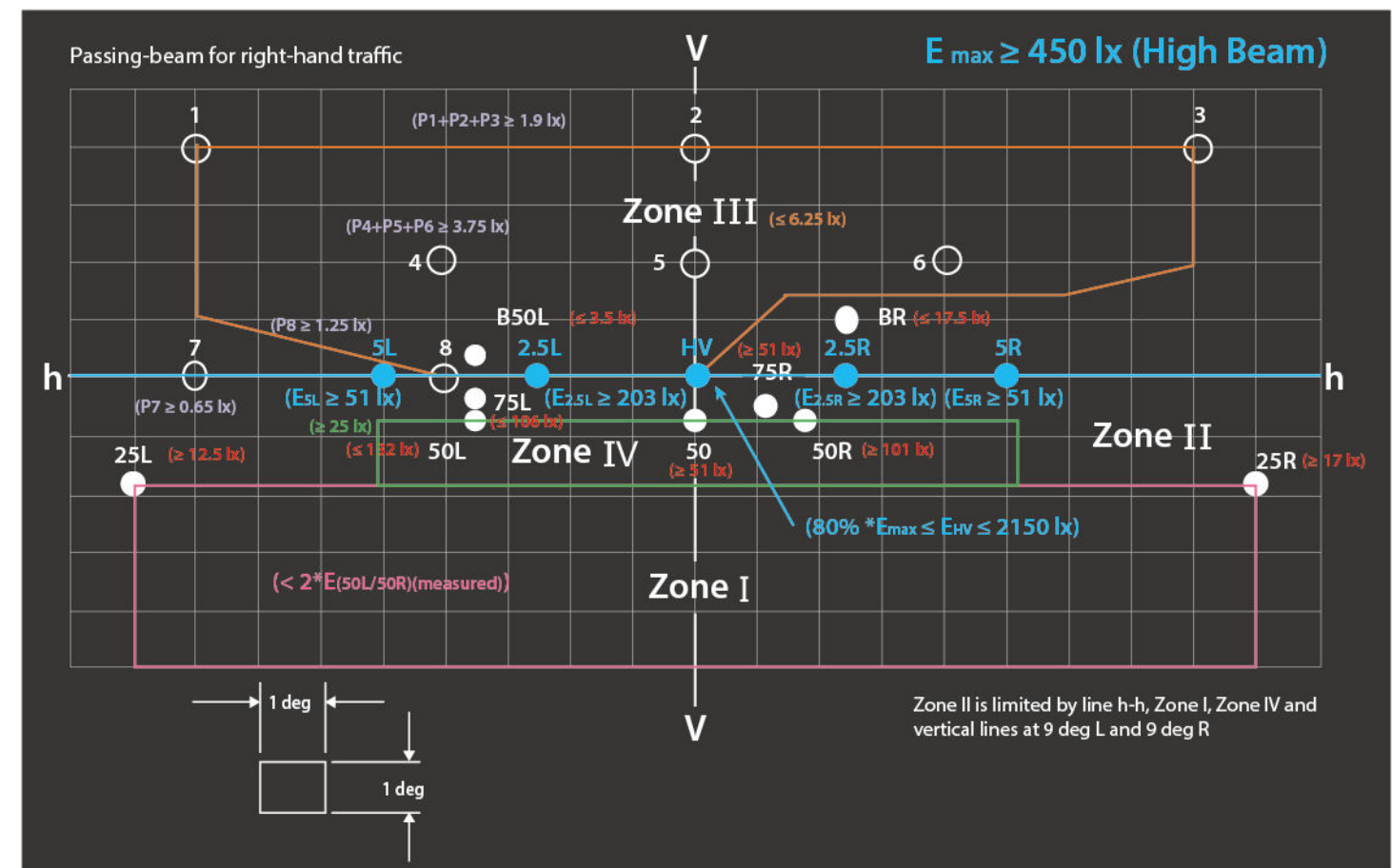
Auto dry box

Welcome light



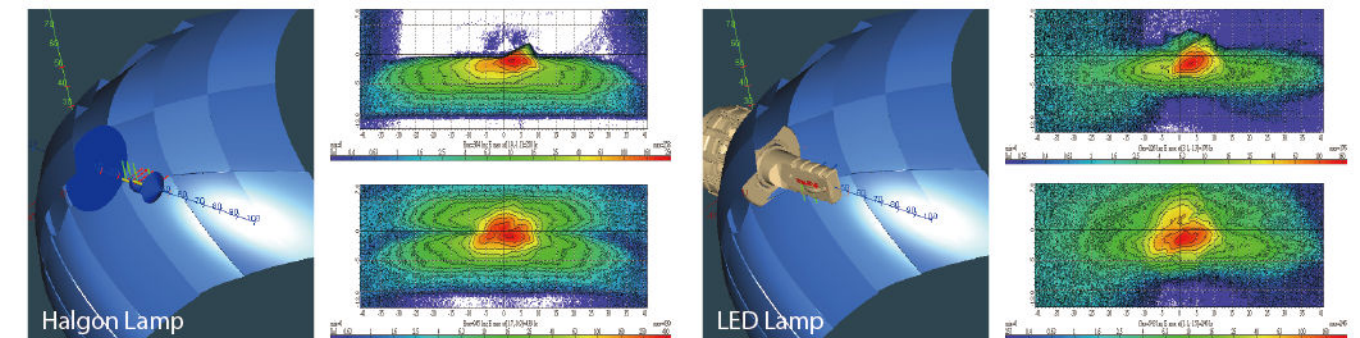
ECE regulation (UN Regulation No. 112 - Rev.3 - Headlamps emitting an asymmetrical passing-beam)

ECE R112 - Class B @10 m - Low / High Beam

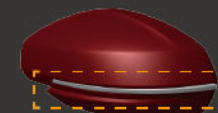


Abilities in optical design and simulation

Low / High Beam simulation



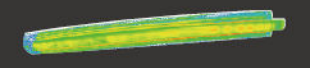
Direction indicators



Observation result

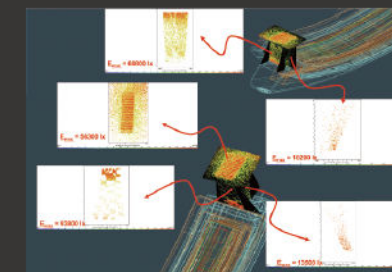


Monochromatic distribution



Color distribution

Energy distribution



Light Tracing distribution (Ray fan)

UN Regulation No. 6 - Rev.6 - Direction indicators (2014) Categories 5





STANDARD HEADLIGHT

F2 Series **14**

- F2-H1
- F2-H4
- F2-H7
- F2-H8/H9/H11
- F2-9005/9006
- F2-9012

PAH Series **16**

- PAH-H1
- PAH-H4
- PAH-H7
- PAH-H8/H9/H11
- PAH-9005/9006
- PAH-9012



F2 Series Waterproof IP65

Features

- ◆ Follow ECE R112 (Class B) regulation
- ◆ Over 99% vehicles with no can-bus issue
- ◆ 4 times brighter than halogen bulb
- ◆ Compact size & easy installation
- ◆ Wider range of light pattern



Foggy Day



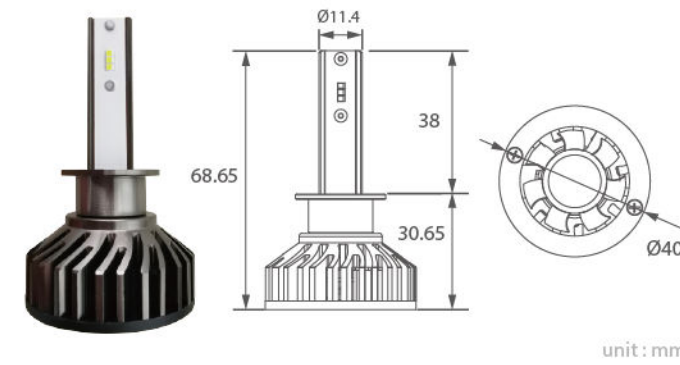
Rainy Day

Perfect Beam Pattern, Glare-less



Headlight Series

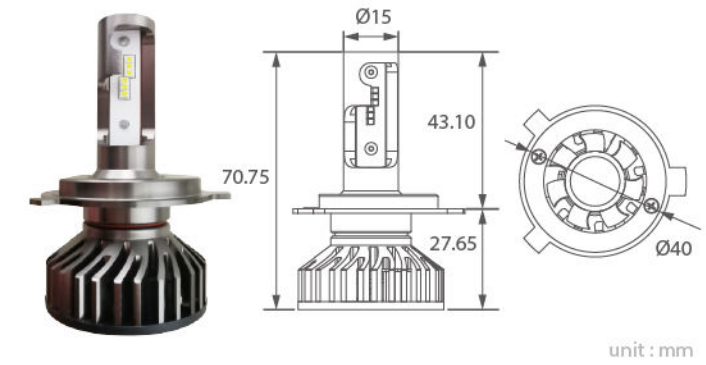
Halogen



unit : mm

F2-H1

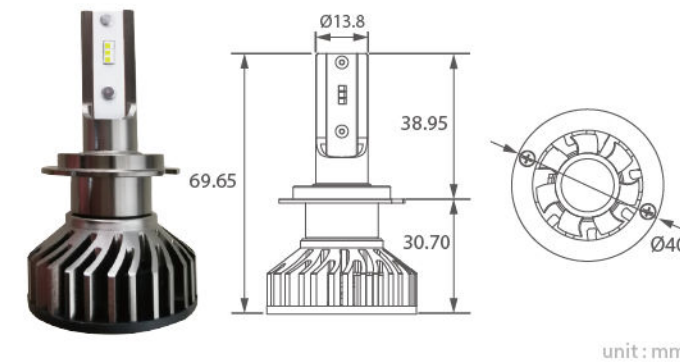
Model NO. : PLA-H1CW-22P-O0-0
Input Voltage : DC 13.5 V
Power : 25 W
Luminous Flux : 2200 lm
CCT : 6000 K



unit : mm

F2-H4

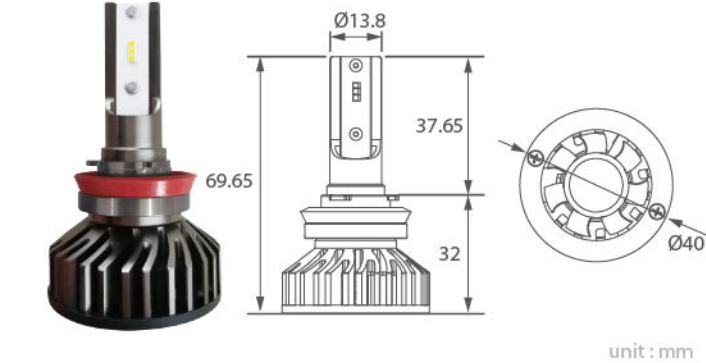
Model NO. : PLA-H4CW-22P-O1-0
Input Voltage : DC 13.5 V
Power : 25 W
Luminous Flux : Hi-2100 lm
Lo-1800 lm
CCT : 6000 K



unit : mm

F2-H7

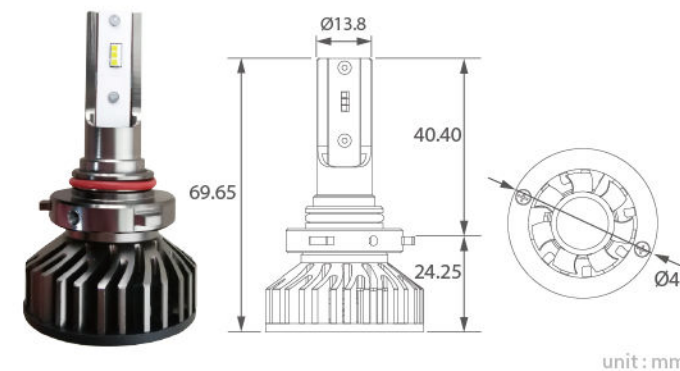
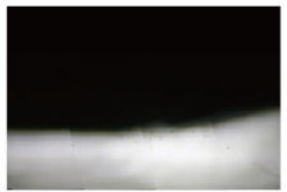
Model NO. : PLA-H4CW-22P-O1-0
Input Voltage : DC 13.5 V
Power : 25 W
Luminous Flux : 2200 lm
CCT : 6000 K



unit : mm

F2-H8 / H9 / H11

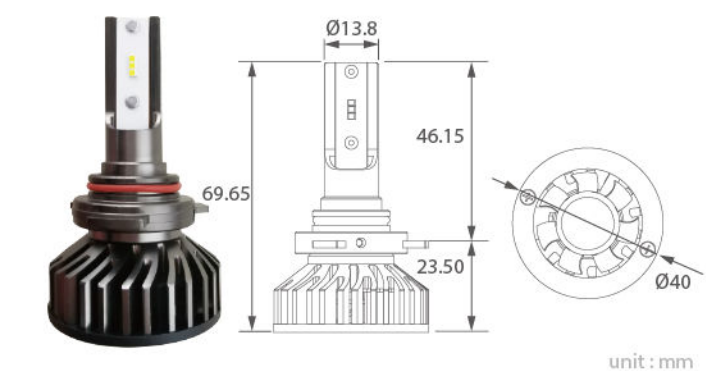
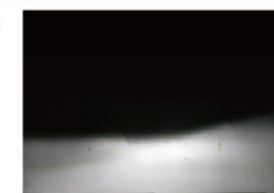
Model NO. : PLA-H8CW-22P-O3-0
Input Voltage : DC 13.5 V
Power : 25 W
Luminous Flux : 2200 lm
CCT : 6000 K



unit : mm

F2-9005 / 9006

Model NO. : PLA-HBCW-22P-O4-0
Input Voltage : DC 13.5 V
Power : 25 W
Luminous Flux : 2200 lm
CCT : 6000 K



unit : mm

F2-9012

Model NO. : PLA-HICW-22P-O5-0
Input Voltage : DC 13.5 V
Power : 25 W
Luminous Flux : 2200 lm
CCT : 6000 K





PAH Series Waterproof IP67

Features

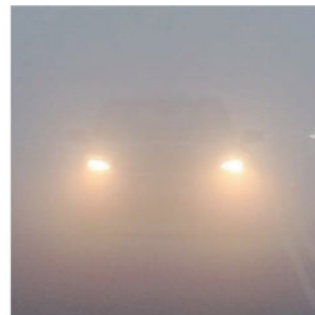
- ◆ Customized LED chips and fan
- ◆ 5 times brighter than halogen bulb
- ◆ Stable performance & energy-saving
- ◆ Quality assured under reliability test



Rainy day



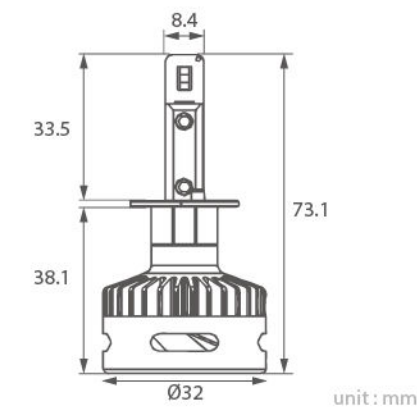
Snowing day



Smog

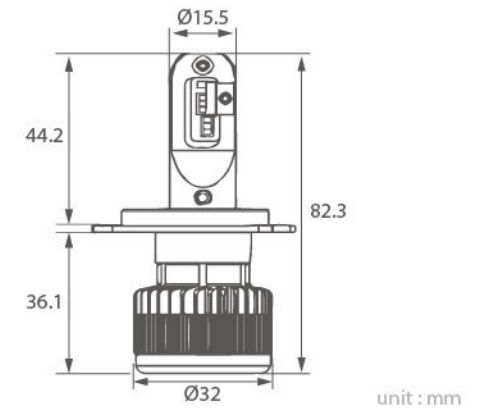


Fog



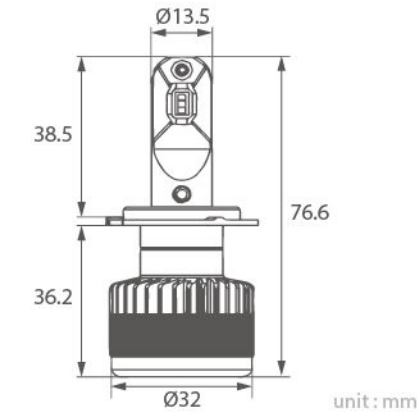
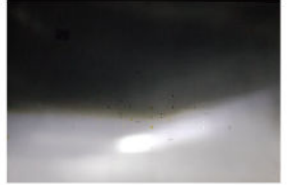
PAH-H1

Model NO. : PLA-J1AW-02S-K6-9
Input Voltage : DC 9~30 V
Power : 30 W
Luminous Flux : 3000 lm (±20%)
CCT : 6500 K (±500K)



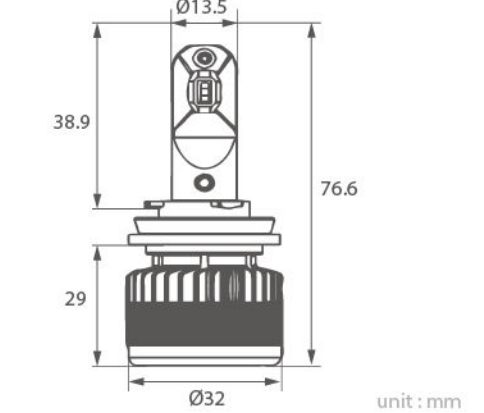
PAH-H4

Model NO. : PLA-H4AW-02S-K7-9
Input Voltage : DC 9~30 V
Power : 30 W
Luminous Flux : 3000 lm (±20%)
CCT : 6500 K (±500K)



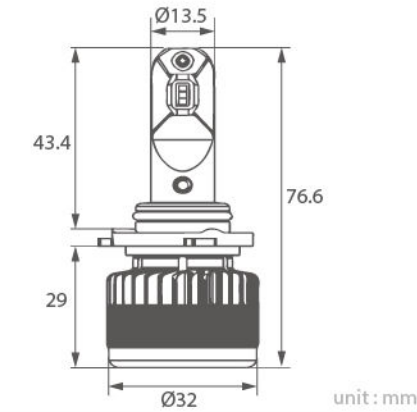
PAH-H7

Model NO. : PLA-H7AW-02S-K8-9
Input Voltage : DC 9~30 V
Power : 30 W
Luminous Flux : 3000 lm (±20%)
CCT : 6500 K (±500K)



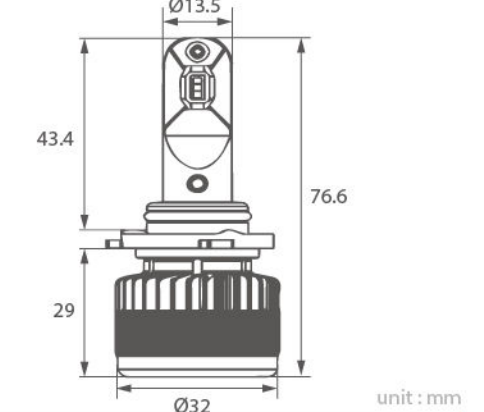
PAH-H8 / H9 / H11

Model NO. : PLA-H8AW-02S-K9-9
Input Voltage : DC 9~30 V
Power : 30 W
Luminous Flux : 3000 lm (±20%)
CCT : 6500 K (±500K)



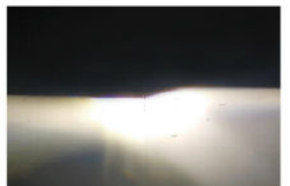
F2-9005 / 9006

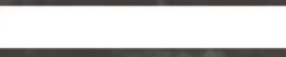
Model NO. : PLA-HBAW-02S-L0-9
Input Voltage : DC 9~30 V
Power : 30 W
Luminous Flux : 3000 lm (±20%)
CCT : 6500 K (±500K)



F2-9012

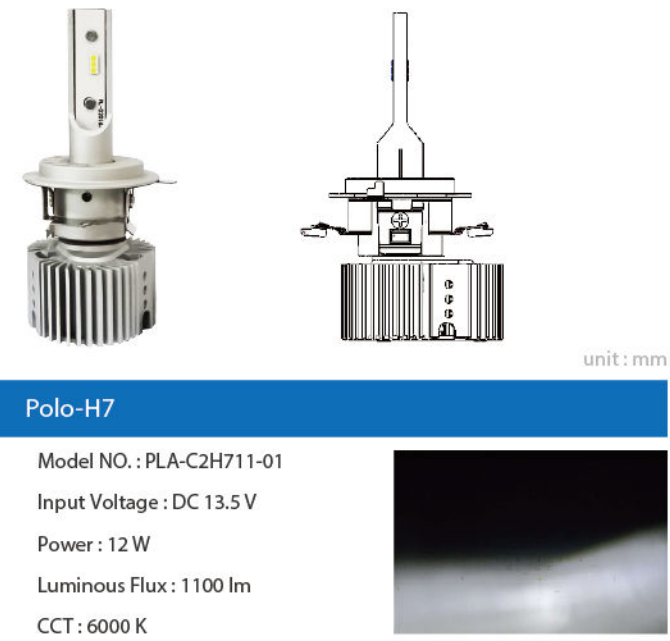
Model NO. : PLA-HIAW-02S-L1-9
Input Voltage : DC 9~30 V
Power : 30 W
Luminous Flux : 3000 lm (±20%)
CCT : 6500 K (±500K)





CUSTOMIZED HEADLIGHT

Polo H7 Series **20**



Polo H7 Series

Features

- ◆ Strictly follow OEM demands & IATF 16949 regulation to produce
- ◆ Conformed to ECE R10, R112 (Class B) standard & RoHS
- ◆ Passed many 3rd-party testings: EMC, lifespan, material analysis
- ◆ Unique socket design & anodizing matte surface
- ◆ Directly fit Polo, Passat, Laida, Santana, Kamiq

Clear night vision - No dark spots

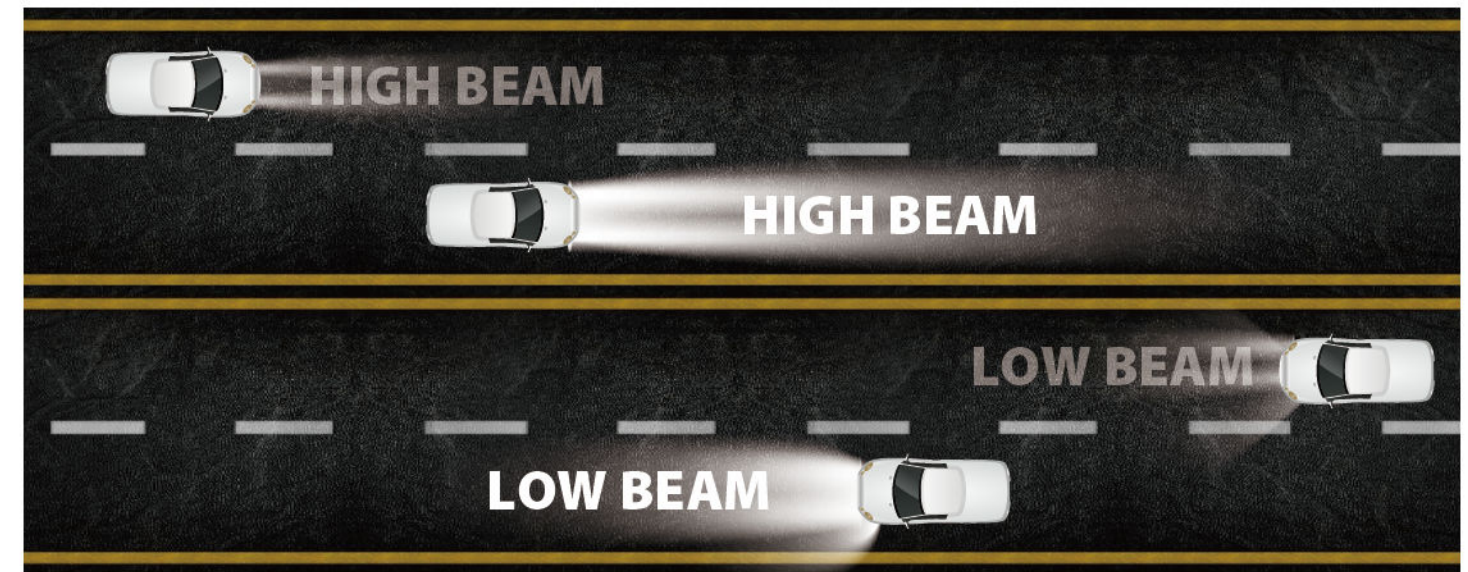
Ensure your safety - No blinding



LED Series



Halogen





2 & 4-WHEEL AUTO LAMP

2 & 4-WHEEL AUTO LAMP

X1 Series	24
T10	

N1 Series	24
T10	
7443	
1156	
3156	
Festoon	

X5 Series	26
T20	
1156/1157	
3156/3157	
H8/H11	
9005/9006	

X6 Series	27
T20	
1156/1157	
3156/3157	
H8/H11	
9005/9006	



2 & 4-Wheel Auto Lamp

Features

Capable use in following position :

- ◆Driving Lamp
- ◆Fog Lamp
- ◆Door Lamp
- ◆Interior Lamp
- ◆Tail Light,
- ◆License Plate Lamp
- ◆DRL Lamp
- ◆Dashboard Lamp
- ◆Dome Lamp
- ◆Side Turn Lamp
- ◆Brake Lamp
- ◆3rd Brake Lamp



X1 Series



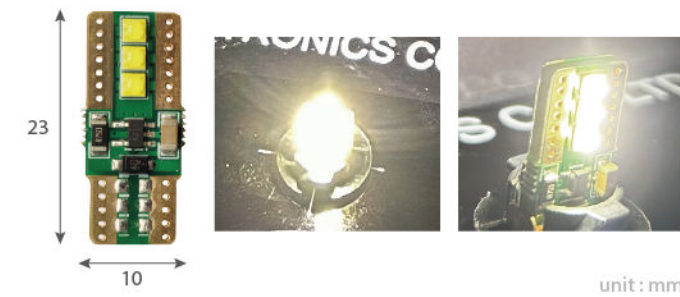
N1 Series



X5 Series

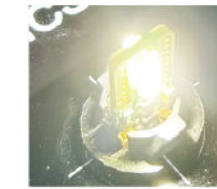


X6 Series



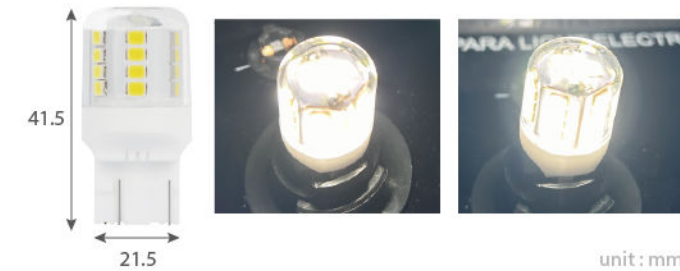
X1-T10

Model NO. : PLA-LLAW-02S-E1-0
Input Voltage : DC 13.5 V
Power : 12 W
Luminous Flux : 240 lm
Color : ○ White



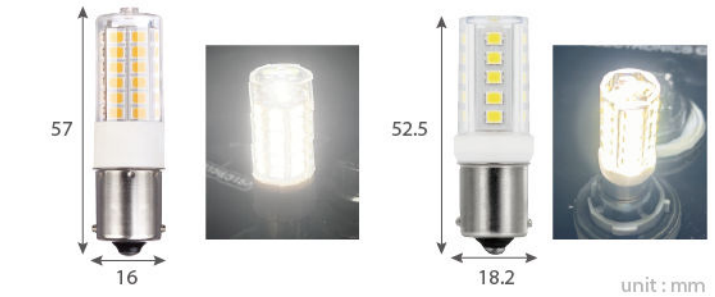
N1-T10

Model NO. : PLA-LLCW-02S-N2-0 Model NO. : PLA-LLCW-02S-N3-0
Input Voltage : 12 V Input Voltage : 12 V
Power : 0.4 W Power : 1.9W
Luminous Flux : 40 lm Luminous Flux : 270 lm
Color : ● Warm White ○ Cool White ● Red ● Yellow ● Amber
● Blue ● Green



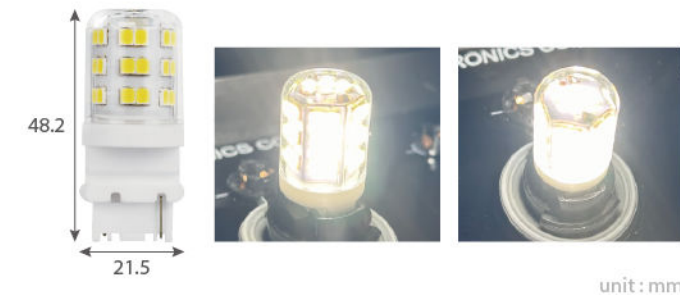
N1-7443

Model NO. : PLA-LJCW-02S-N4-0
Input Voltage : 12 V
Power : 3 W
Luminous Flux : 400 lm
Color : ● Warm White ○ Cool White
● Red ● Yellow ● Amber
● Blue ● Green



N1-1156

Model NO. : PLA-LPCW-02S-N6-0
Input Voltage : 12 V
Power : 3 W
Luminous Flux : 400 lm
Color : ● Warm White ○ Cool White
● Red ● Yellow ● Amber
● Blue ● Green



N1-3156

Model NO. : PLA-LRCW-02S-N7-0
Input Voltage : 12 V
Power : 4 W
Luminous Flux : 540 lm
Color : ● Warm White ○ Cool White
● Red ● Yellow ● Amber
● Blue ● Green



Festoon

Model NO. : PLA-LGCW-02S-N8-0 Model NO. : PLA-LGCW-02S-N9-0
Input Voltage : 12 V Input Voltage : 12 V
Power : 2.4 W Power : 2.4 W
Luminous Flux : 190 lm Luminous Flux : 200 lm
Color : ○ White Color : ○ White



unit : mm

X5-T20

Model NO. : PLA-LMAW-02S-F0-0
Input Voltage : DC 9~24 V
Power : 6.5 W
Luminous Flux : 600 lm
Color : ○ White

Model NO. : PLA-LMAP-02S-F1-0
Input Voltage : DC 9~24 V
Power : 2 W
Luminous Flux : 220 lm
Color : ● Yellow



unit : mm

X5-1156 / 1157

Model NO. : PLA-LPAW-02S-G0-0
Model NO. : PLA-LQAW-02S-G7-0
Input Voltage : DC 9~24 V
Power : 6.5 W
Luminous Flux : 600 lm
Color : ○ White

Model NO. : PLA-LPAP-02S-G1-0
Model NO. : PLA-LQAP-02S-G8-0
Input Voltage : DC 9~24 V
Power : 2 W
Luminous Flux : 220 lm
Color : ● Yellow



unit : mm

X6-T20

Model NO. : PLA-LMAW-02S-F4-0
Input Voltage : DC 9~24 V
Power : 6.5 W
Luminous Flux : 600 lm
Color : ○ White

Model NO. : PLA-LMAP-02S-F4-0
Input Voltage : DC 9~24 V
Power : 2 W
Luminous Flux : 220 lm
Color : ● PC Amber

Model NO. : PLA-LNAR-02S-L3-0
Input Voltage : DC 9~24 V
Power : 6.5 W / 1.5 W
Luminous Flux : 100 lm / 30 lm
Color : ● Red



unit : mm

X5-3156 / 3157

Model NO. : PLA-LRAW-02S-I3-0
Model NO. : PLA-LSAW-02S-I9-0
Input Voltage : DC 9~24 V
Power : 6.5 W
Luminous Flux : 600 lm
Color : ○ White

Model NO. : PLA-LRAP-02S-J6-0
Model NO. : PLA-LSAP-02S-J0-0
Input Voltage : DC 9~24 V
Power : 2 W
Luminous Flux : 220 lm
Color : ● Yellow



unit : mm

X5-H8 / H11

Model NO. : PLA-LRAW-02S-I3-0
Input Voltage : DC 9~24 V
Power : 6.5 W
Luminous Flux : 600 lm
Color : ○ White

Model NO. : PLA-LRAP-02S-J6-0
Input Voltage : DC 9~24 V
Power : 2 W
Luminous Flux : 220 lm
Color : ● Yellow



unit : mm

X6-1156 / 1157

Model NO. : PLA-LPAW-02S-G2-0
Model NO. : PLA-LQAW-02S-H7-0
Input Voltage : DC 9~24 V
Power : 6.5 W
Luminous Flux : 600 lm
Color : ○ White

Model NO. : PLA-LPAP-02S-J5-0
Model NO. : PLA-LQAP-02S-H8-0
Input Voltage : DC 9~24 V
Power : 2 W
Luminous Flux : 220 lm
Color : ● PC Amber

Model NO. : PLA-LPAR-02S-L9-0
Model NO. : PLA-LQAR-02S-L4-0
Input Voltage : DC 9~24 V
Power : 6.5 W / 1.5 W
Luminous Flux : 100 lm / 30 lm
Color : ● Red



unit : mm

X5-9005 / 9006

Model NO. : PLA-HBAW-02S-J7-0
Input Voltage : DC 9~24 V
Power : 6.5 W
Luminous Flux : 600 lm
Color : ○ White

Model NO. : PLA-HBAP-02S-J8-0
Input Voltage : DC 9~24 V
Power : 2 W
Luminous Flux : 220 lm
Color : ● Yellow



unit : mm

X6-H8 / H11

Model NO. : PLA-H8AW-02S-K3-0
Input Voltage : DC 9~24 V
Power : 6.5 W
Luminous Flux : 600 lm
Color : ○ White

Model NO. : PLA-H8AP-02S-K4-0
Input Voltage : DC 9~24 V
Power : 2 W
Luminous Flux : 220 lm
Color : ● PC Amber

Model NO. : PLA-H8AR-02S-K4-0
Input Voltage : DC 9~24 V
Power : 6.5 W / 1.5 W
Luminous Flux : 100 lm / 30 lm
Color : ● Red



unit : mm

X6-3156 / 3157

Model NO. : PLA-LRAW-02S-I4-0
 Model NO. : PLA-LSQW-02S-J1-0
 Input Voltage : DC 9~24 V
 Power : 6.5 W
 Luminous Flux : 600 lm
 Color : ○ White

Model NO. : PLA-LRAP-02S-I4-0
 Model NO. : PLA-LSAP-02S-J1-0
 Input Voltage : DC 9~24 V
 Power : 2 W
 Luminous Flux : 220 lm
 Color : ● PC Amber

Model NO. : PLA-LRAR-02S-I4-0
 Model NO. : PLA-LSAR-02S-J1-0
 Input Voltage : DC 9~24 V
 Power : 6.5 W / 1.5 W
 Luminous Flux : 100 lm / 30 lm
 Color : ● Red



unit : mm

X6-9005 / 9006

Model NO. : PLA-HBAW-02S-J9-0
 Input Voltage : DC 9~24 V
 Power : 6.5 W
 Luminous Flux : 600 lm
 Color : ○ White

Model NO. : PLA-HBAP-02S-K0-0
 Input Voltage : DC 9~24 V
 Power : 2 W
 Luminous Flux : 220 lm
 Color : ● PC Amber

Model NO. : PLA-HBAR-02S-K0-0
 Input Voltage : DC 9~24 V
 Power : 6.5 W / 1.5 W
 Luminous Flux : 100 lm / 30 lm
 Color : ● Red





AUTO INTERIOR LIGHTING

Ambient Lighting	32
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Ambient Lighting

Features

- ◆Adjustable brightness
- ◆Plug and play - USB + remote control + APP control
- ◆Fix with adhesive
- ◆Dynamic with music rhythm
- ◆Monochromatic mode
- ◆Colorful mode

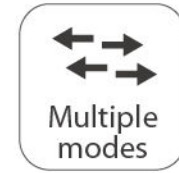
Interior ambient lighting for all car models



Monochromatic mode



Colorful mode



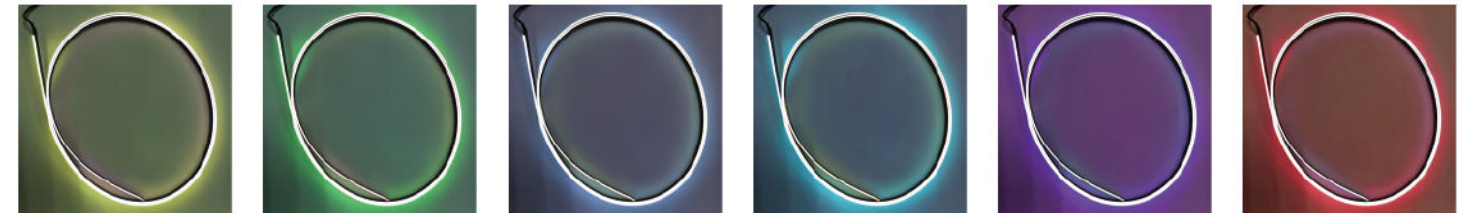
One Drag One

Model NO. : PLA-LF0X-XXS-XX-1
Input Voltage : 5 V
Power : 4 W
Length : 140 cm
Color : RGB full colors
Operation Temperature: -20°C~70°C

One Drag Two

Model NO. : PLA-LF0X-XXS-XX-2
Input Voltage : 5 V
Power : 3 W
Luminous Flux : 400 lm
Color : RGB full colors
Operation Temperature: -20°C~70°C

64 colors to choose



Low
brightness —

+ High
brightness

Installation



Pasting (adhesive) & USB plug-in



Dynamic with music rhythm



OEM PRODUCTS

Dynamic Turn Signal 36



Dynamic Turn Signal

Features

- ◆ Strictly follow OEM demands (PAT testings) & IATF 16949 regulation to produce
- ◆ Comformed to ECE R9, R10 standard & RoHS
- ◆ Passed many 3rd-party testings: EMC, lifespan, material analysis, etc
- ◆ With China National CCC Certificate
- ◆ Directly replace te original side turn signal

Upgrade the light uniformity and brightness to ensure the driver's safety
Added sequential & fluent lighting output to enhance the sporty look



Human-eye observation simulation analysis @2m



X axis-0°

X axis-45°

X axis-60°

X axis-90°

X axis-135°

SUV Series

(PLA-LA0P-12P-A4-0)



Tiguan L , New Tiguan L , Tiguan X , Tharu , T-Cross , Viloran

Sedan series

(PLA-LA0P-12P-H1-0)



New Lavida , Lamando , New Passat

New Lamando L Series

(PLA-LA0P-12P-H2-0)



New Lamando L (2022)

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