



MIKROUNA (CHINA) CO.,LIMITED

Made in Shanghai



About MIKROUNA

GERMAN BRAND GERMAN QUALITY





German trademark certificate

Philips manufacturers certificate

As a fast-growing high-tech enterprise that integrates research, manufacture and services, Mikrouna has been committed to develop innovative products for clients aroud the world.

Mikrouna's 60 engineers apply their expertise in a number of disciplines including mechanical, electronic chemical, p hysics, welding, instrument, vacuum technology, hydrodynamic, energetic, optical electronic and materials engineering.

Main Products: Auto LED Headlight and OEM Auto Xenon HID Headlight & matched electronic ballast.

LED Chips: LUMILEDS;

Type: LUXEON ZES/LXE2-5770

Quality: Manufactured in Shanghai as German standard

Certificates: German and EU Certificates

Mission: Achieving social goals through advancing technology

Development History

1997 Mikrouna (China) Co.,Ltd. was registered in Hong Kong.

1998 Beijing Mikrouna Mech. Tech. Co., Ltd. was registered in Beijing.

2002 Mikrouna has developed large modern Auto Xenon HID Lighting Production Lines.

2004 Mikrouna has established the professional modern plant in Pudong Shanghai and manufactured several large modern Auto Xenon HID Lighting Production Lines for several large Chinese enterprises.

2005 Mirkrouna produced Xenon HID bulb and ballast.

2006 ISO/TS16949:2009 was been introdued into the enterprise.

2009 Guangzhou Mikrouna Mech. Tech. Co., Ltd. was registered in Guangzhou.

2012 American branch was established in Boston and named VTI;

Registered trademark in Germany.

2013 Hubei branch and 60 acres of modern plant were established in Xiaogan, Hubei Province;

> Mikrouna achieved industry 3.0 and ERP information management.

2015 Mikrouna vigorously promoted the industry 4.0 process and established the Internet of

Mikrouna produced LED.

2016 Mikrouna enlarged plant in Jinshan district of Shanghai; Mikrouna got E1-HID.

2017 DOT-HID approved.



Crtifcates

ISO/TS16949:2009













ROHS ROHS























LED Advantages

Maximum road safety and style

Brighter light on the road, without the glare

MIKROUNA LED intense bright headlights bring a sophisticated & modern light appearance to your car, and maximum visibility with up to +100% brighter light on the road than halogen lamp, for maximum driving safety and visual comfort.

Maximum road safety

+100 % brighter light on the road Maximum visibility, without the glare.

Long life span

50000hours lifespan means you need not replace them till the car worthless.

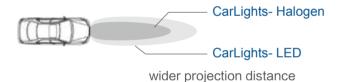
• 0 lumens decay

Zero lumens decay at 3000 hours make driving lighting stable and lasting.

Distinct cutoff line

distinct cutoff line and high intensity lighting at right area no glare at eyes makes driving safer and relaxed.

Compared With Traditional







halogen hulb

LED headlight



traditional lamps glare at eyes



LED headlight lamps glare at eyes



CarLights-LED-L



F Series Auto LED

- All types color temperature from 3000K to 6000K
- The following lumen test results are based on the color temperature 6000K

		TYPES		
H1-F1	H3-F1	H4-F1	H7-F1	H8-F1
H1-F2	H3-F2	H4-F2	H7-F2	H8-F2
H9-F1	H10-F1	H11-F1	9004-F1	9005-F1
H9-F2	H10-F2	H11-F2	9004-F2	9005-F2
9006-F1	9007-F1	9012-F1		
9006-F2	9007-F2	9012-F2		

[★] Other types available on request

Technical specifications

product description

H4-F1 Type: Technology: LED

Housing Material: Magnesium Alloy Fans & Air Cooling Method: >50.000hs Lifespan: 12V DC Voltage: Rated Power: $22W \pm 15\%$

Lumens Decay: Zero lumens decay at 3000 hours High beam 1900 lm ± 150 lm Lumen:

Low beam 1500 lm ± 150 lm

↑150%(compared with traditional as ECE R112) FOM:



H4-F2 Type: LED Technology:

Housing Material: Magnesium Alloy

Cooling Method: Air

>50,000hs Lifespan: 12V DC Voltage: $22W \pm 15\%$ Rated Power:

Zero lumens decay at 3000 hours Lumens Decay: High beam 1900 lm ± 150 lm Lumen: Low beam 1500 lm ± 150 lm

FOM: ↑150%(compared with traditional as ECE R112)





H7-F1 Type: LED Technology:

Housing Material: Magnesium Alloy Fans & Air Cooling Method: Lifespan: >50,000hs 12V DC Voltage: $22W \pm 15\%$ Rated Power:

Zero lumens decay at 3000 hours Lumens Decay:

Lumen: 2200 lm ± 150 lm

FOM: 150%(compared with traditional as ECE R112)

H7-F2 Type: Technology: I FD

Housing Material: Magnesium Alloy

Cooling Method: Air

>50,000hs Lifespan: 12V DC Voltage: Rated Power: $20W \pm 15\%$

Zero lumens decay at 3000 hours Lumens Decay:

1800 lm ± 150 lm Lumen:

120%(compared with traditional as ECE R112) FOM:

H11-F1 Type: Technology: LED

Housing Material: Magnesium Alloy Fans & Air Cooling Method: >50,000hs Lifespan: Voltage: 12V DC Rated Power: $22W \pm 15\%$

Zero lumens decay at 3000 hours Lumens Decay:

2200 lm ± 150 lm Lumen:

150%(compared with traditional as ECE R112) FOM:

H11-F2 Type: LED Technology:

Magnesium Alloy **Housing Material:**

Air Cooling Method:

6

Lifespan: >50,000hs 12V DC Voltage: $20W \pm 15\%$ Rated Power:

Zero lumens decay at 3000 hours Lumens Decay:

1800 lm ± 150 lm Lumen:

120%(compared with traditional as ECE R112) FOM:









Type: 9005-F1 LED Technology:

Housing Material: Magnesium Alloy

Cooling Method: Fans & Air Lifespan: >50.000hs

12V DC Voltage:

22W ± 15% Rated Power: Lumens Decay: Zero lumens decay at 3000 hours

2200 lm ± 150 lm Lumen:

↑ 150%(compared with traditional as FOM:

ECE R112)

Type: 9005-F2 LED Technology:

Housing Material: Magnesium Alloy

Cooling Method: Air

Lifespan: >50.000hs

Voltage: 12V DC $20W \pm 15\%$ Rated Power:

Lumens Decay: Zero lumens decay at 3000 hours

Lumen: 1800 lm ± 150 lm

↑ 120%(compared with traditional FOM:

as ECE R112)

9006-F1 Type:

LED Technology:

Housing Material: Magnesium Alloy

Cooling Method: Fans & Air

Lifespan:

Rated Power:

Lumens Decay: Zero lumens decay at 3000 hours

Lumen:

FOM: ↑ 150%(compared with traditional as

ECE R112)

Housing Material: Magnesium Alloy

Cooling Method: Air

>50,000hs Lifespan: 12V DC Voltage: $20W \pm 15\%$ Rated Power:

Lumens Decay: Zero lumens decay at 3000 hours

1800 lm ± 150 lm Lumen:

FOM: 120%(compared with traditional as

ECE R112)

9012-F1 Type: Technology: LED

Housing Material: Magnesium Alloy

Cooling Method: Fans & Air >50,000hs Lifespan:

Voltage: 12V DC Rated Power: $22W \pm 15\%$

Zero lumens decay at 3000 hours Lumens Decay:

2200 lm ± 150 lm Lumen:

↑ 150%(compared with traditional as FOM:

9012-F2 Type: LED Technology:

Housing Material: Magnesium Alloy

Cooling Method: Air

Lifespan: >50,000hs Voltage: 12V DC $20W \pm 15\%$ Rated Power:

Zero lumens decay at 3000 hours Lumens Decay:

1800 lm ± 150 lm Lumen:

FOM:

9006-F2 Type: LED Technology:

> 50,000hs Voltage:

12V DC















Campare Table for All LED Suppliers

	Philips	Mikrouna	Others
chips	Lumileds	Lumileds	All Suppliers
cooling method	Air	Fans & Air Air	Fans & Air
housing material	Allu Alloy	Magnesium Alloy	Allu Alloy
power	23w ± 2w	23w ± 2w	18w~25w
lumen	2200lm ± 150lm	2200lm ± 150lm	1400lm~2000lm
FOM	↑ 150%	1 50%	-10%—150%
decay @ 200hs	0	0	√ 30%
decay @1000hs	0	0	↓ 60%
decay @ 3000hs	0	0	↓ 100%

Electronic Ballast for Auto LED **LED 4 Head Lighting Driver Box**



LED H4

V input DC: 12V or 24V Body size: 1.7A@13.2V I input:

P output:

23W norm 58 × 41 × 20mm

LED Lighting Driver Box



LED H7/H8/H11/9005/9006/9012 for F1

V input DC: 1.7A@13.2V I input: P output: 23W norm $60 \times 35 \times 13$ mm Body size:



LED H7/H8/H11/9005/9006/9012 for F2

V input DC: 1.5A@13.2V I input: P output: 20W norm Body size: $60 \times 35 \times 13$ mm



Auto Xenon HID Advantages

1.0EM Quality 4. Strong technique team

2.We developed HID technology originally 5.Large-scale modern production line

6.TS16949 Certified 3. Consistantly improves HID

manufacturing process 7.Perfact sales-service system

Auto Xenon HID for OEM Quality

Compatible with matched electronic ballast

Our Auto CoolBlue Xenon Lamp Features

—for lamps of 35W with mercury

D1S Product name $85 \pm 10 \text{V}$ lamp voltage High luminous flux 3100LM ± 200LM

Reach 20% of objective luminous flux within 0.8 second, Ouick start

While above 80% of objective luminous flux within 4 seconds

3000 hours, Lumen maintenance > 70% Long lifetime

5000K ± 200K Color temperature deviation



—for lamps of 35W without mercury

D3S Product name 42 ± 5 V lamp voltage

3000LM ± 200LM High luminous flux

Quick start Reach 20% of objective luminous flux within 0.8 second,

While above 80% of objective luminous flux within 4 seconds

2500 hours, Lumen maintenance > 70% Long lifetime

5000K ± 200K Color temperature deviation







—for lamps of 35W with mercury

D2S Product name

 $85 \pm 10 \text{V}$ lamp voltage

High luminous flux 3300LM ± 100LM

Quick start Reach 20% of objective luminous flux within 0.8 second,

While above 80% of objective luminous flux within 4 seconds

Long lifetime 3000 hours.Lumen maintenance > 70%

4300K + 200K / - 100K Color temperature deviation



D4S Product name lamp voltage $42 \pm 5 \text{V}$

High luminous flux $3000LM \pm 100LM$

Quick start Reach 20% of objective luminous flux within 0.8 second,

While above 80% of objective luminous flux within 4 seconds

Long lifetime 2500 hours, Lumen maintenance > 70%

Color temperature deviation 4300K + 200K / - 100K

—for lamps of 25W without mercury

Product name D5S/D6S/D8S $42 \pm 5 V$

lamp voltage

1950LM ± 100LM High luminous flux

Reach 20% of objective luminous flux within 0.8 Quick start

second, While above 80% of objective luminous flux within 4 seconds

Long lifetime 2500 hours, Lumen maintenance > 70%

4300K + 200K / - 100K Color temperature deviation









D Series Xenon HID Lamp

Followed the ECE Certificate standard

D series big breakthrough

All items are cereifilated with ECE R99

BREAKTHROUGH IN XENON

		MIKROUNA X-TREME VISION	PHILIPS X-TREME VISION	OTHERS
	Luminous	3300 ± 100LM	3300 ± 100LM	3300 ± 300LM
35W-4300K with mercury	Light Decay in 100 hours	<100LM	<100LM	>300LM
	Light Decay in 500 hours	<250LM	<250LM	>500LM
	Luminous	3300 ± 100LM	3300 ± 100LM	3300 ± 300LM
35W-up to 5500K with mercury	Light Decay in 100 hours	<100LM	<100LM	>300LM
	Light Decay in 500 hours	<250LM	<250LM	>500LM
	Luminous	2900 ± 200LM	2900 ± 200LM	2700 ± 200LM
35W-up to 6000K with mercury	Light Decay in 100 hours	<100LM	<100LM	>300LM
	Light Decay in 500 hours	<250LM	<250LM	>500LM
	Luminous	3000 ± 100LM	3000 ± 100LM	2400 ± 200LM
35W-4300K without mercury	Light Decay in 100 hours	<100LM	<100LM	>300LM
	Light Decay in 500 hours	<250LM	<250LM	>500LM
	Luminous	3000 ± 100LM	3000 ± 100LM	NO
35W-5000K without mercury	Light Decay in 100 hours	<100LM	<100LM	NO
,	Light Decay in 500 hours	<250LM	<250LM	NO
	Luminous	2800 ± 300LM	2800 ± 300LM	NO
35W-6000K without mercury	Light Decay in 100 hours	<100LM	<100LM	NO
	Light Decay in 500 hours	<250LM	<250LM	NO
	Luminous	1950 ± 100LM	1950 ± 100LM	1400 ± 200LM
25W-4300K without mercury	Light Decay in 100 hours	<100LM	<100LM	>300LM
	Light Decay in 500 hours	<250LM	<250LM	>500LM





Electronic Ballast for Xenon HID Lamp for OEM Quality

Technical Parameters

—for lamps of 35W with mercury

Type D1S/D1R
Power input 41W
Test voltage 12V or 24V
Power output 35W

Voltage output MAX 1100V DC 85V AC

Lifspan Tc3000 hsOperating temperature $-40 \degree C \sim +105 \degree C$ Output open short protectionShutdown in 1.5 sec

Type D2S/D2R

Power input 41W

Test voltage 12V or 24V

Power output 35W

Voltage output MAX 23KV 85V AC

Lifspan Tc3000hsOperating temperature $-40^{\circ}C \sim +105^{\circ}C$ Output open short protectionShutdown in 1.5 sec







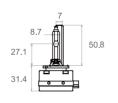


D Series Xenon HID

(D1S/R,D2S/R Varying from 300K to 12000K,others from 3000K to 8000K)



ITEM	W	V	Вз	Tc	Luminous Flux at 4300K	Base
D1S	35	85	2000h	3000h	3300 ± 100lm	PK32d-2
D1R	35	85	2000h	3000h	3000 ± 100lm	PK32d-3

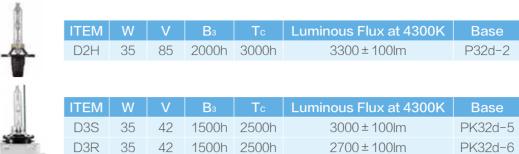


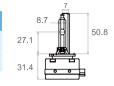


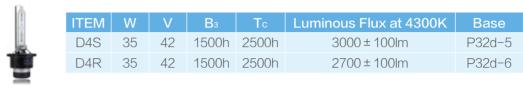
ITEM	W	V	Вз	Tc	Luminous Flux at 4300K	Base
D2S	35	85	2000h	3000h	3300 ± 100lm	P32d-2
D2R	35	85	2000h	3000h	3000 ± 100lm	P32d-3

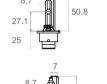


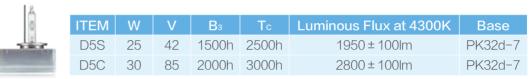














0	ITEM	W	V	Вз	Tc	Luminous Flux at 4300K	Base
1	D6S	25	42	1500h	2500h	1950 ± 100lm	P32d-1



	ITEM	W	V	Вз	Tc	Luminous Flux at 4300K	Base
M.	D8S	25	42	1500h	2500h	1950 ± 100lm	PK32d-1

D Series Ballast

1.5.



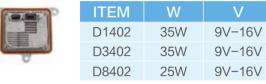


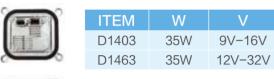
MIKROUNA

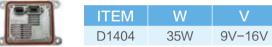
D Series Ballast

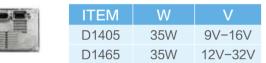


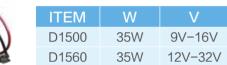
ITEM	W	V
D1401	35W	9V-16V
D1461	35W	12V-32V

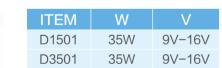


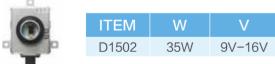


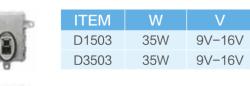












	ITEM	W	V
	D1504	35W	9V-16V
Li .			
-	ITEM	W	V

ITEM	W	V
D1600	35W	9V-16V
D1660	35W	12V-32V
	D1600	D1600 35W



ITEM	W	V
D1800	35W	9V-16V



ITEM	W	V
D2200	35W	9V-16V



ITEM	W	V
D2500	35W	9V-16V
D2560	35W	12V-32V



ITEM	W	V
D2600	35W	9V-16V



ITEM	W	V
D2601	35W	9V-16V



ITEM	W	V
D2602	35W	9V-16V



I I EIVI	VV	V
D2700	35W	9V-16V



ITEM	W	V
D2800	35W	9V-16V



ITEM	W	V
D2900	35W	9V-16V



HEIVI	VV	V
D3102	35W	9V-16V
D8102	25W	9V-16V
D6102	2377	90-100



ITEM	W	V
D3605	35W	9V-16V



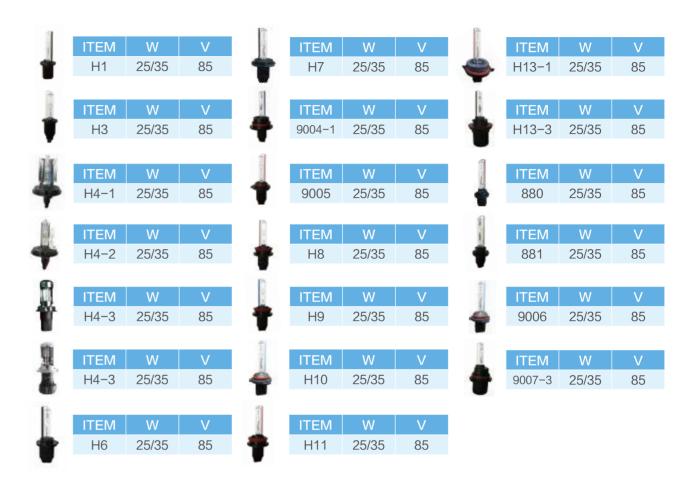
	I I EIVI	VV	V
1	D4300	35W	9V-16V
1			
	ITEM	W	V



ITEM	W	V
D4400	35W	9V-16V

H Series Xenon HID

(Varying from 3000K to 12000K)



H Series Ballast



ITEM	W	V
H8000	25	9V-16V
H8010	35	9V-16V
H8020	35	9V-16V CBUS
H8050	50	9V-16V
H8060	50	16V-32V
H8080	35	16V-32V
H9010	35	9V-16V



ITEM	W	V
H6000	25	9V-16V
H6010	35	9V-16V
H6020	35	9V-16V CBUS
H6080	35	9V-32V



IT	EM	W	V
H	5010	35	9V-16V
H	5020	35	9V-16V CBUS
H	5080	35	9V-32V



ITEM	W	V
S1000	25	9V-16V
S1010	35	9V-16V
S1020	35	9V-16V CBUS
S1080	35	9V-32V





Achieving social goals through advancing technology

http://www.mikrouna.com





















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