



BLUE LAKE

ENJOY YOUR LIGHT

Shanghai Blue Lake Lighting Technology Co., Ltd.



About Blue Lake

Shot On Location



67 patents
(30 invention patents and 37 utility model patents)



Possess over 10 experts in the
field of optics



3 series
10+ varieties



Products are exported to more than
20 countries and regions



Zhuang, Songlin Member of the Chinese Academy of Engineering Founding Shareholder, Chief Scientist

- A renowned master in optics, one of the founders of experimental optics and optical instrument science.
- Dean of the School of Optical - Electrical and Computer Engineering, University of Shanghai for Science and Technology.



Yang, Yi Doctor, Founder, Executive Director

- Studied semiconductor physics under Academician Luo Yi and theoretical optics under Academician Zhuang Songlin.
- Founder of Shanghai Blue Lake Lighting, pioneering the world's first white laser long - range lighting technology.
- Founder of Jiangsu Lingjing Photonics, inventing the world's first Mirror House optical system.
- Holder of 223 authorized patents, among which 133 are authorized invention patents and 3 are authorized US patents.

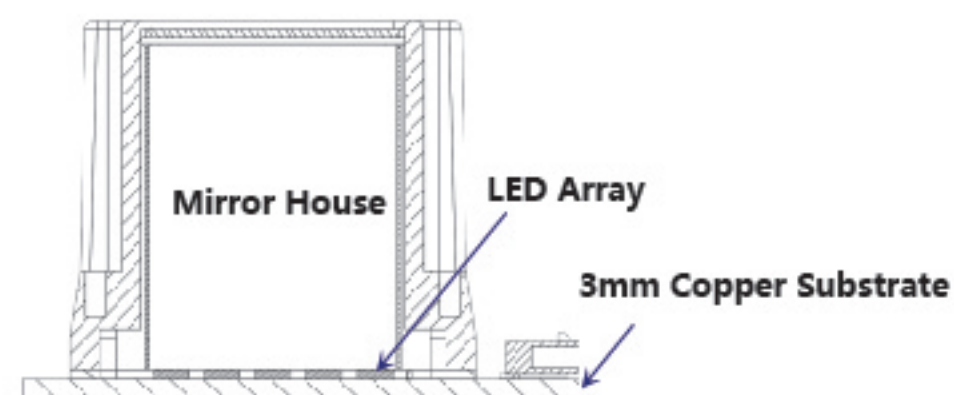
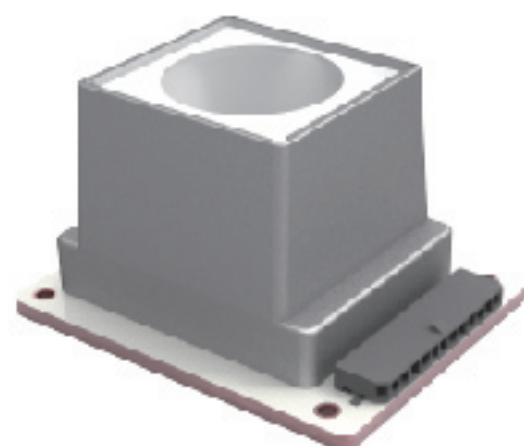
Founded in 2015, Shanghai Blue Lake Lighting Technology Co., Ltd. is an innovator of solid - state light engines. It is based on the team from Tsinghua University and relies on core technologies such as near - field optics, new materials, and micro - curved surface stitching algorithms.

The company's main product, the lighting module for stage equipment, is designed with the Mirror House optical system for the professional field of stage lighting based on the theory of near-field optics. It completely eliminates the use of lenses, fundamentally avoiding chromatic aberration and reducing device costs. The light spot has excellent uniformity, and the length of the entire system is shortened by 50 - 100mm. The rotation control is more flexible. Compared with traditional products, both the weight and volume are reduced by 70%.

The company has won wide recognition and support from users with its excellent product performance and professional services. It is committed to providing high-quality and highly reliable innovative products to global users, creating convenience and safety for users while bringing an excellent user experience.

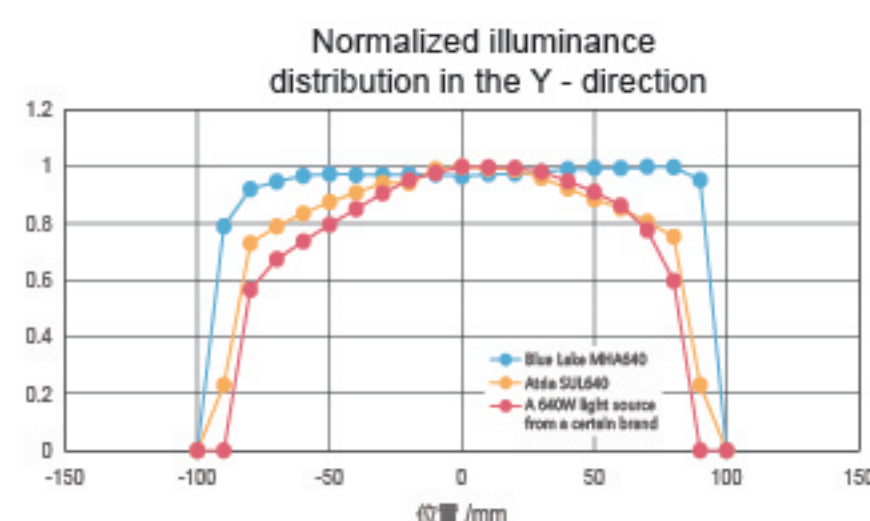
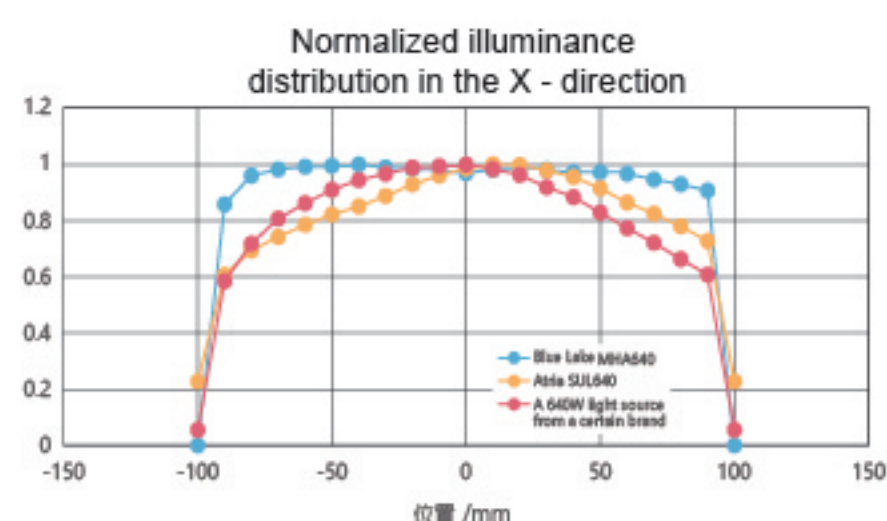
Product Features

Prod. Feat. 1 • Lensless, Zero Dispersion



The Mirror House optical system operates without using any lenses at all, fundamentally preventing the occurrence of chromatic dispersion

Prod. Feat. 2 • Excellent Uniformity

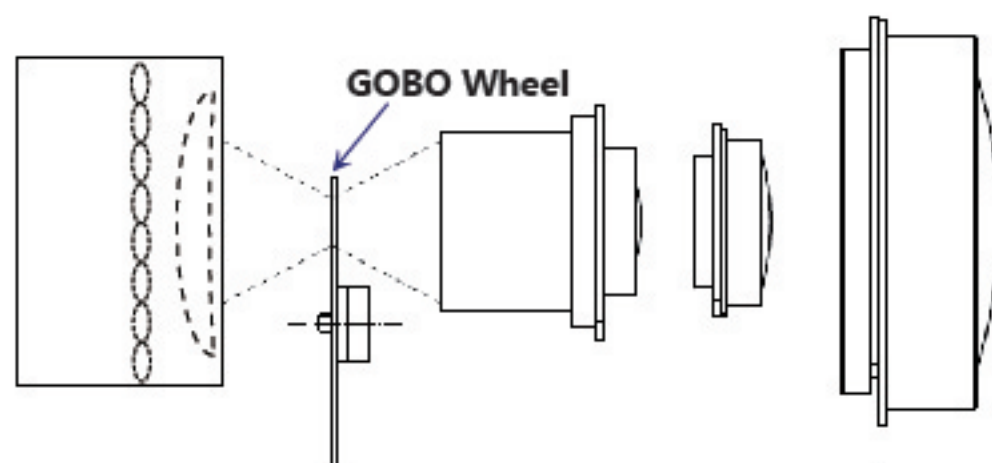


Experimental conditions: Use a 165mm lens group, and the test distance is 13 meters.

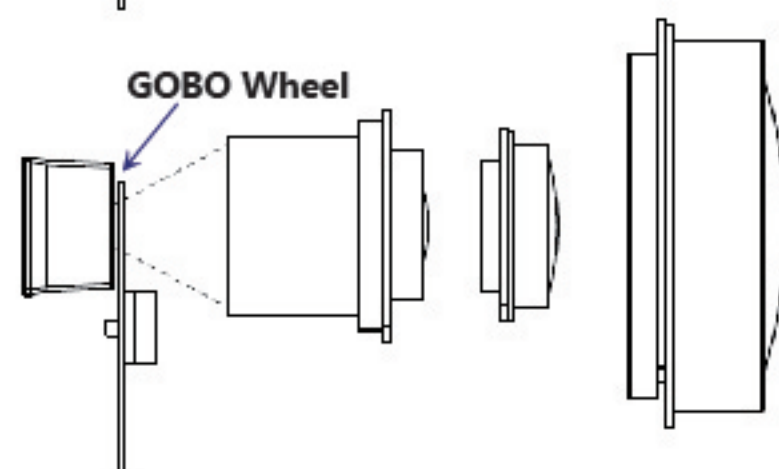
Compared with traditional compound-eye lens based solutions, it has better uniformity

Prod. Feat. 3 • System Length is Shortened By 50 - 100mm

Traditional
Pattern Light System

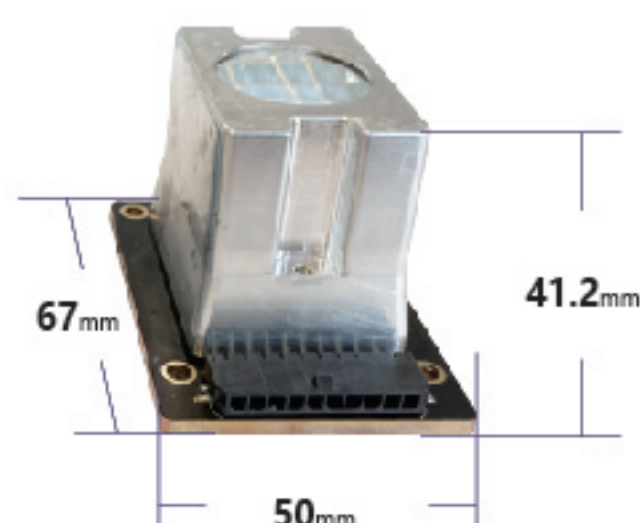
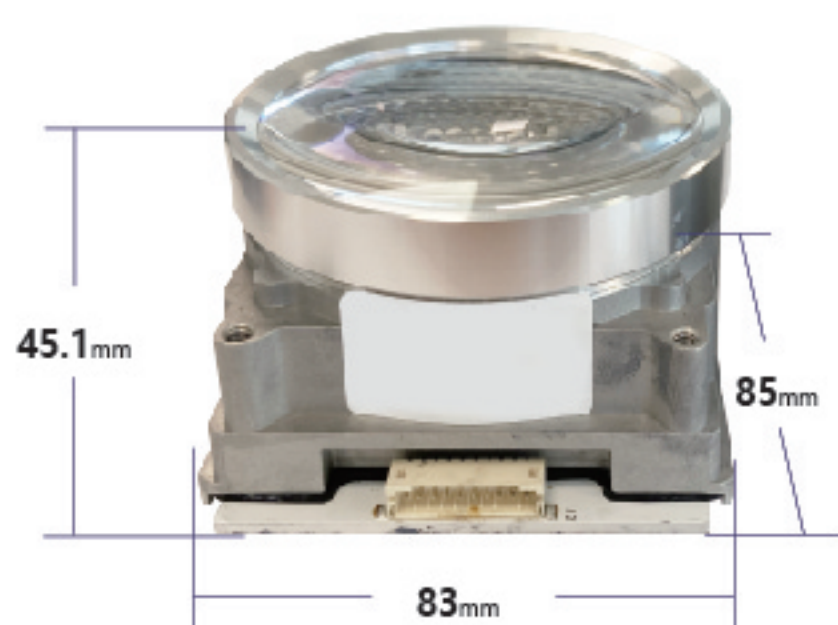


Blue Lake
Pattern Light System



Light Source Power	System Shortening Length L_1-L_2
640 W	50 mm
1000 W	80 mm

Prod. Feat. 4 • Weight Reduction By 65% Volume Decrease By 75%

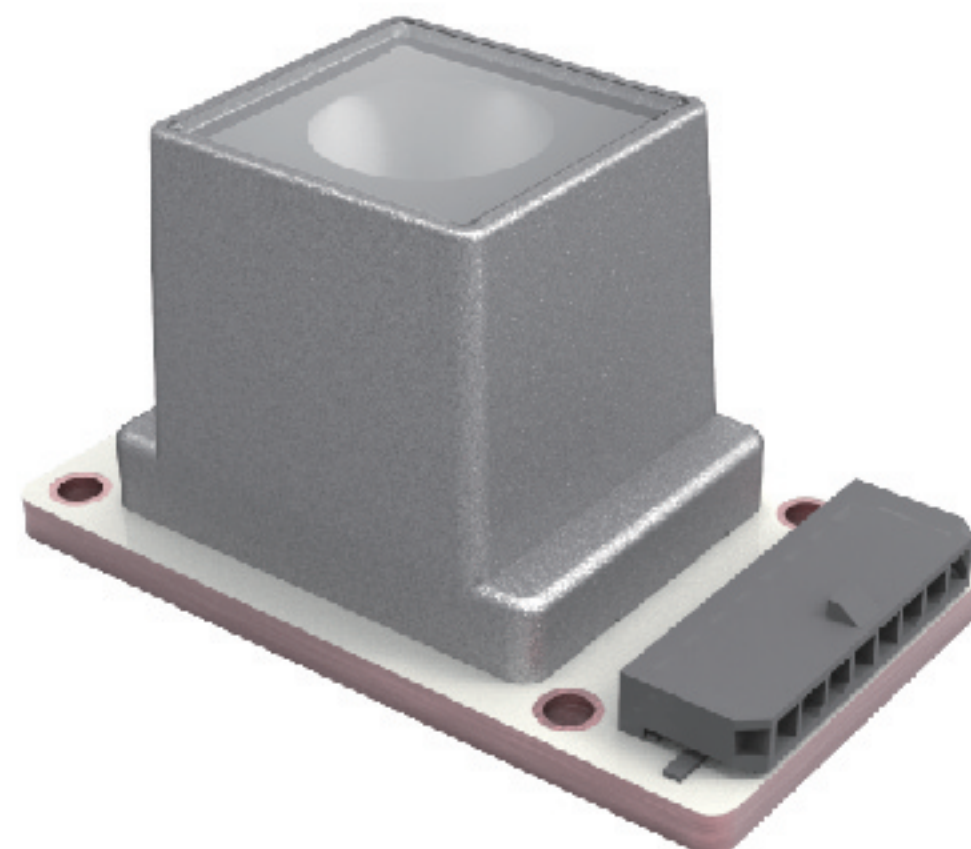


MHB250

Light Engine Module for Stage Equipment

• Main Features

- Zero-Photon original Mirror House optical system, without lenses and zero chromatic aberration
- Superior uniformity compared to traditional fly-eye lens systems
- The exit is the focal point, significantly shortening the length of the optical system



• Parameters

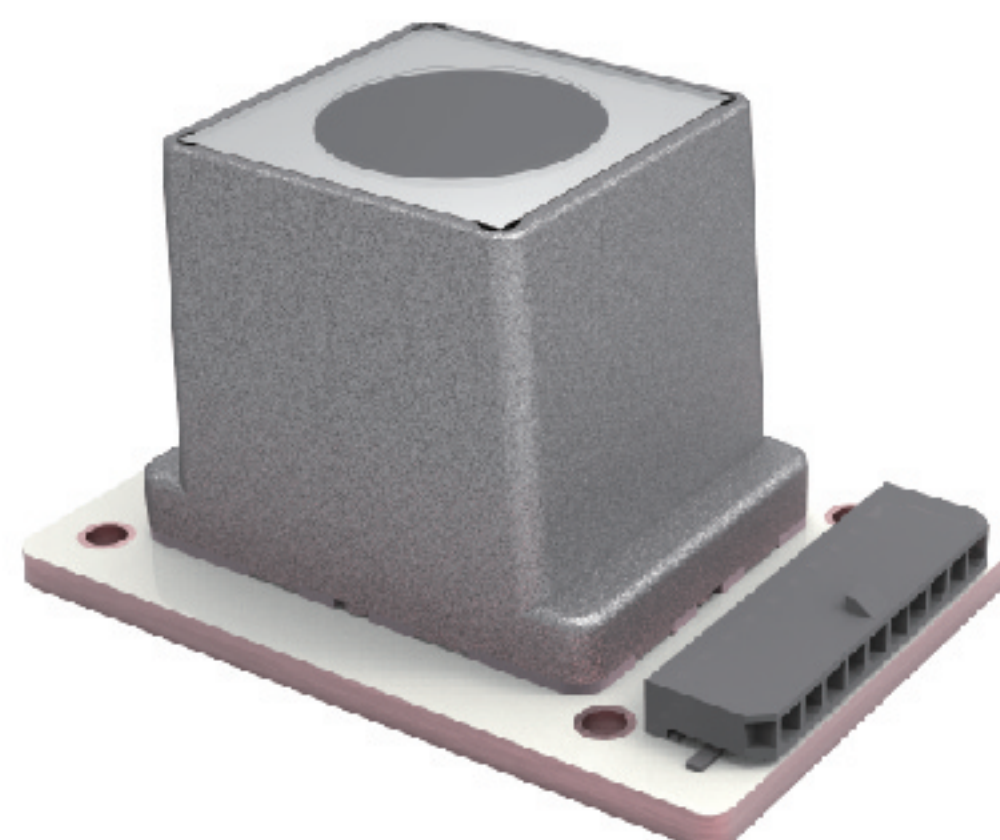
Model (w)	Power (w)	Luminous Flux (lm)	Color Temp. (k)	Full-angle Luminous Angle (°)	Aperture Diameter (mm)	Dimensions (L*W*H) (mm)	Luminous intensity of a 160mm lens (cd)
MHB250	250	16000	8000	56	15	60*35*32.3	> 1,700,000

MHB440

Light Engine Module for Stage Equipment

• Main Features

- Zero-Photon original Mirror House optical system, without lenses and zero chromatic aberration
- Superior uniformity compared to traditional fly-eye lens systems
- The exit is the focal point, significantly shortening the length of the optical system



• Parameters

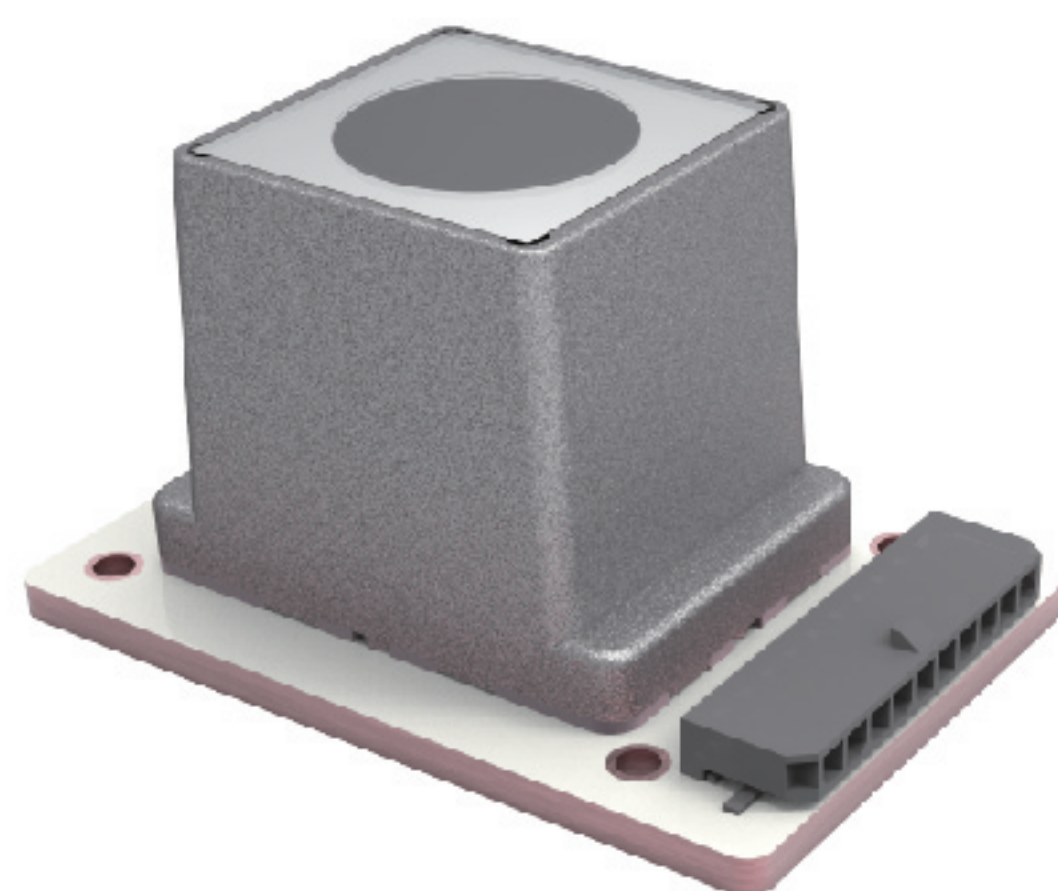
Model (w)	Power (w)	Luminous Flux (lm)	Color Temp. (k)	Full-angle Luminous Angle (°)	Aperture Diameter (mm)	Dimensions (L*W*H) (mm)	Luminous intensity of a 160mm lens (cd)
MHB440	440	30000	8000	56	21	66*45.6*37.5	> 1,700,000

MHB640

Light Engine Module for Stage Equipment

• Main Features

- Zero-Photon original Mirror House optical system, without lenses and zero chromatic aberration
- Superior uniformity compared to traditional fly-eye lens systems
- The exit is the focal point, significantly shortening the length of the optical system



• Parameters

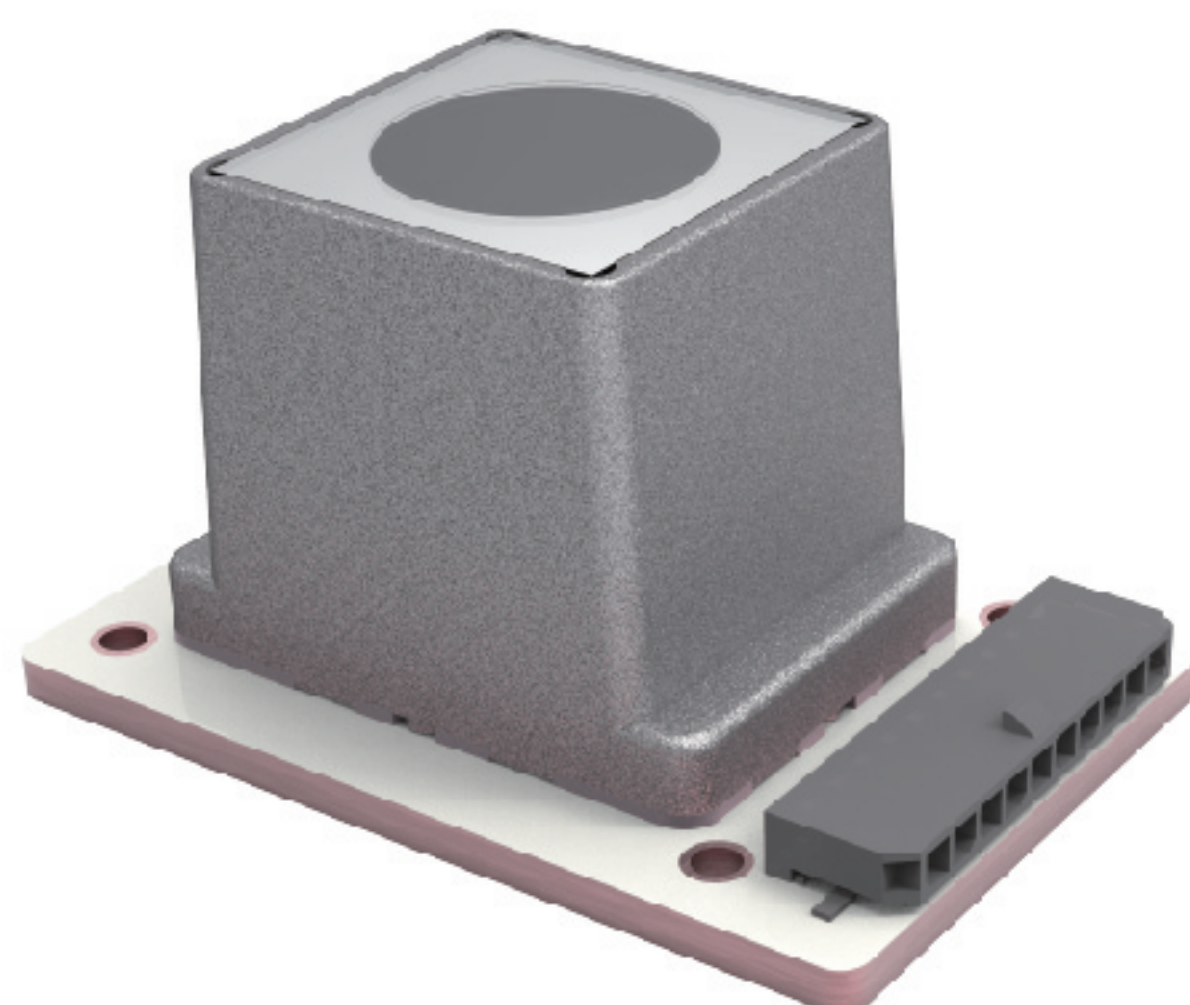
Model (w)	Power (w)	Luminous Flux (lm)	Color Temp. (k)	Full-angle Luminous Angle (°)	Aperture Diameter (mm)	Dimensions (L*W*H) (mm)	Luminous intensity of a 160mm lens (cd)
MHB640	640	41000	8000	56	26	72*51.6*42.5	> 1,700,000

MHB860

Light Engine Module for Stage Equipment

• Main Features

- Zero-Photon original Mirror House optical system, without lenses and zero chromatic aberration
- Superior uniformity compared to traditional fly-eye lens systems
- The exit is the focal point, significantly shortening the length of the optical system



• Parameters

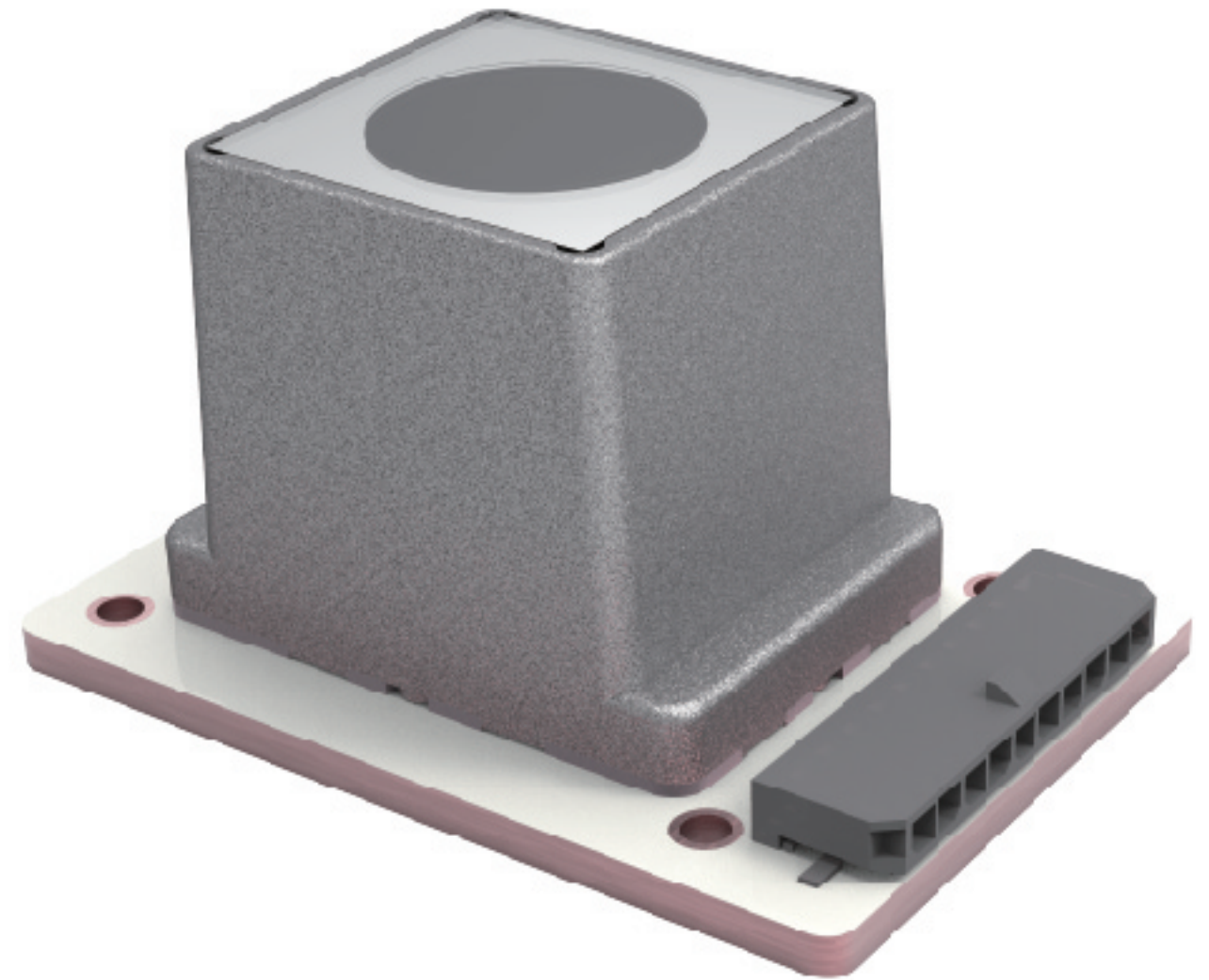
Model (w)	Power (w)	Luminous Flux (lm)	Color Temp. (k)	Full-angle Luminous Angle (°)	Aperture Diameter (mm)	Dimensions (L*W*H) (mm)	Luminous intensity of a 160mm lens (cd)
MHB860	860	55000	8000	56	32	78*57*47.5	> 1,700,000

MHB1000

Light Engine Module for Stage Equipment

• Main Features

- Zero-Photon original Mirror House optical system, without lenses and zero chromatic aberration
- Superior uniformity compared to traditional fly-eye lens systems
- The exit is the focal point, significantly shortening the length of the optical system



• Parameters

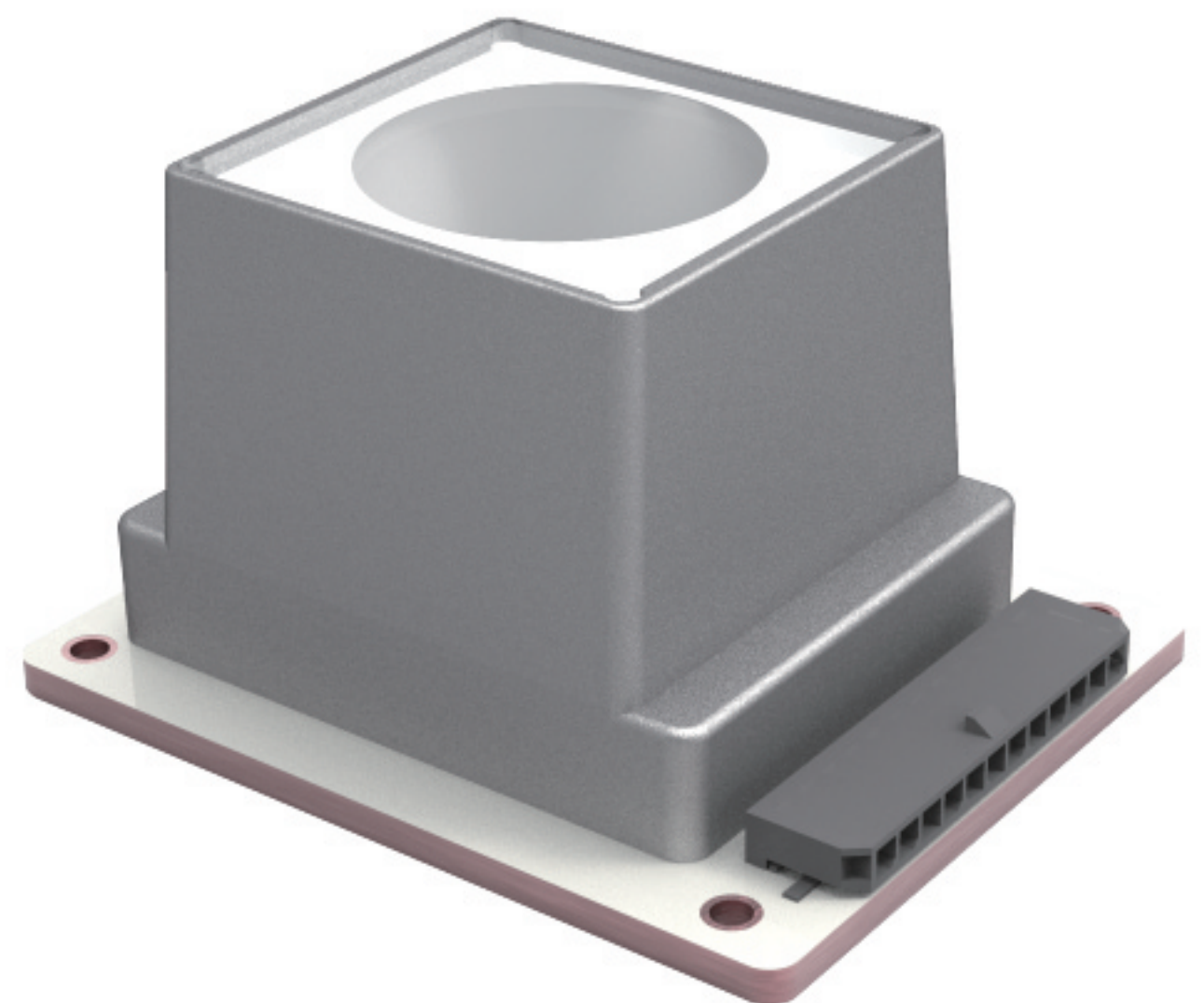
Model (w)	Power (w)	Luminous Flux (lm)	Color Temp. (k)	Full-angle Luminous Angle (°)	Aperture Diameter (mm)	Dimensions (L*W*H) (mm)	Luminous intensity of a 160mm lens (cd)
MHB1000	1000	64000	8000	56	37	84*63*52.5	> 1,700,000

MHA1000

Light Engine Module for Stage Equipment

• Main Features

- Zero-Photon original Mirror House optical system, without lenses and zero chromatic aberration
- Luminus SFT-70X LED array, featuring high temperature resistance and high reliability
- Superior uniformity compared to traditional fly-eye lens systems
- The exit is the focal point, significantly shortening the length of the optical system



• Parameters

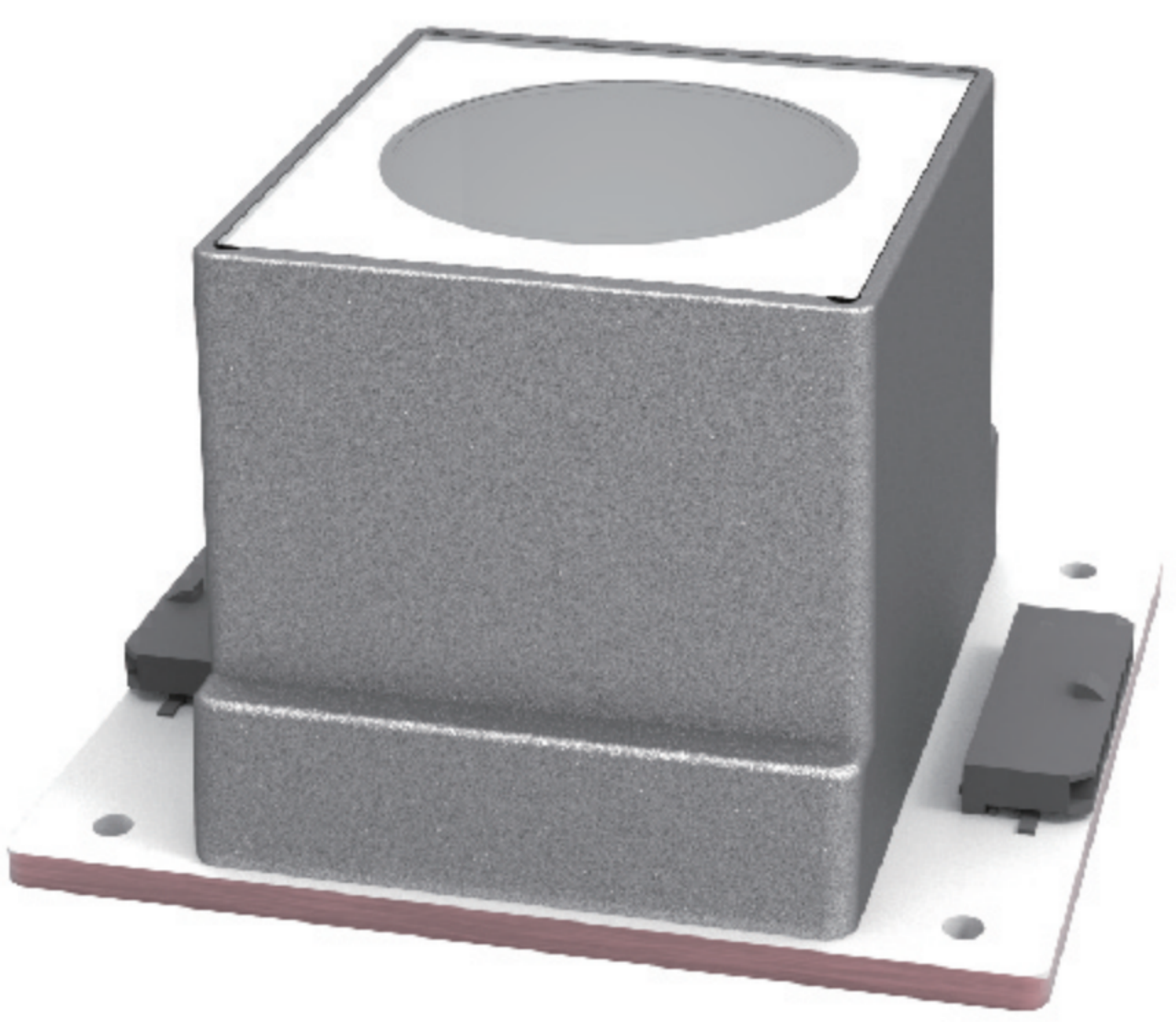
Model (w)	Power (w)	Luminous Flux (lm)	Color Temp. (k)	Full-angle Luminous Angle (°)	Aperture Diameter (mm)	Dimensions (L*W*H) (mm)	Luminous intensity of a 160mm lens (cd)
MHA1000	1000	64000	6500	56	30	74.5*60*44.4	> 2,000,000

MHA1440

Light Engine Module for Stage Equipment

• Main Features

- Zero-Photon original Mirror House optical system, without lenses and zero chromatic aberration
- Luminus SFT-70X LED array, featuring high temperature resistance and high reliability
- Superior uniformity compared to traditional fly-eye lens systems
- The exit is the focal point, significantly shortening the length of the optical system



• Parameters

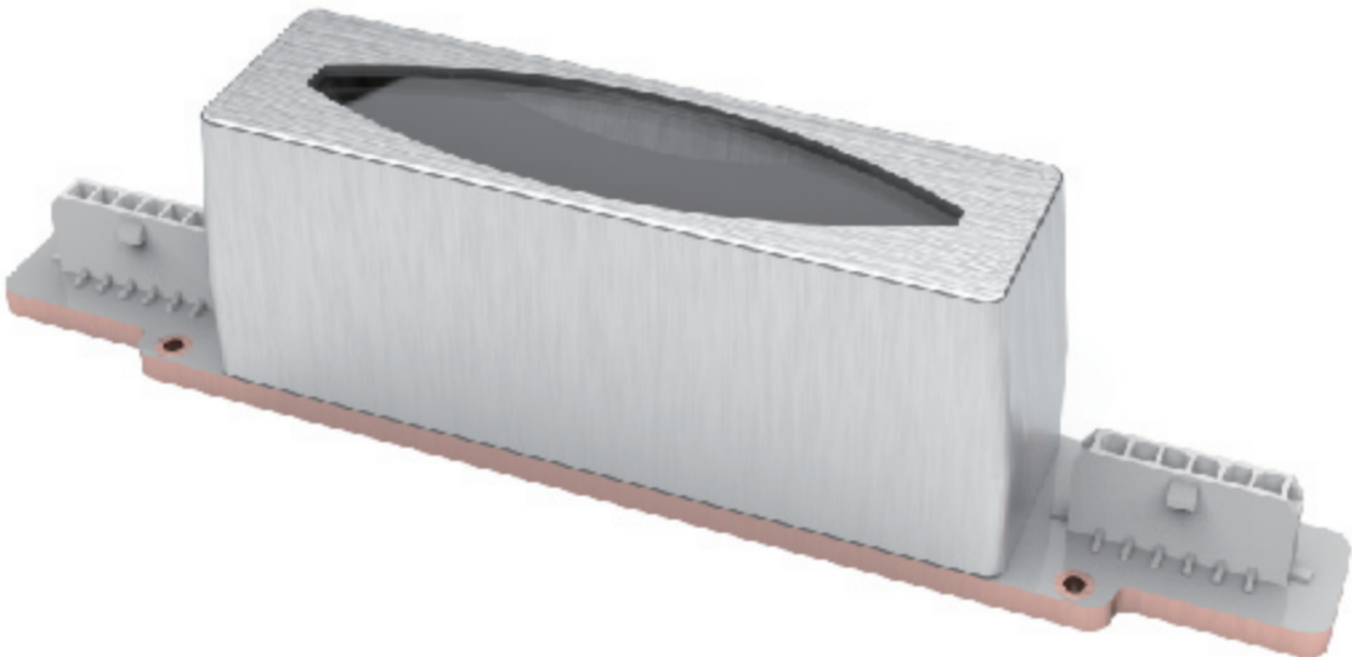
Model	Power	Luminous Flux	Color Temp	Full-angle Luminous Angle	Aperture Diameter (mm)	Dimensions (L*W*H) (mm)	Luminous intensity of a 160mm lens (cd)
MHA1440		90000		56		80*71*49.4	> 2,000,000

MHC-12

Light Engine Module for Stage Equipment

• Main Features

- Zero-Photon original Mirror House optical system, without lenses and zero chromatic aberration
- OSRAM LED array, with high temperature resistance and high reliability
- Rectangular variable long - strip light spot, the electrically controlled light source can achieve single-angle variation



• Parameters

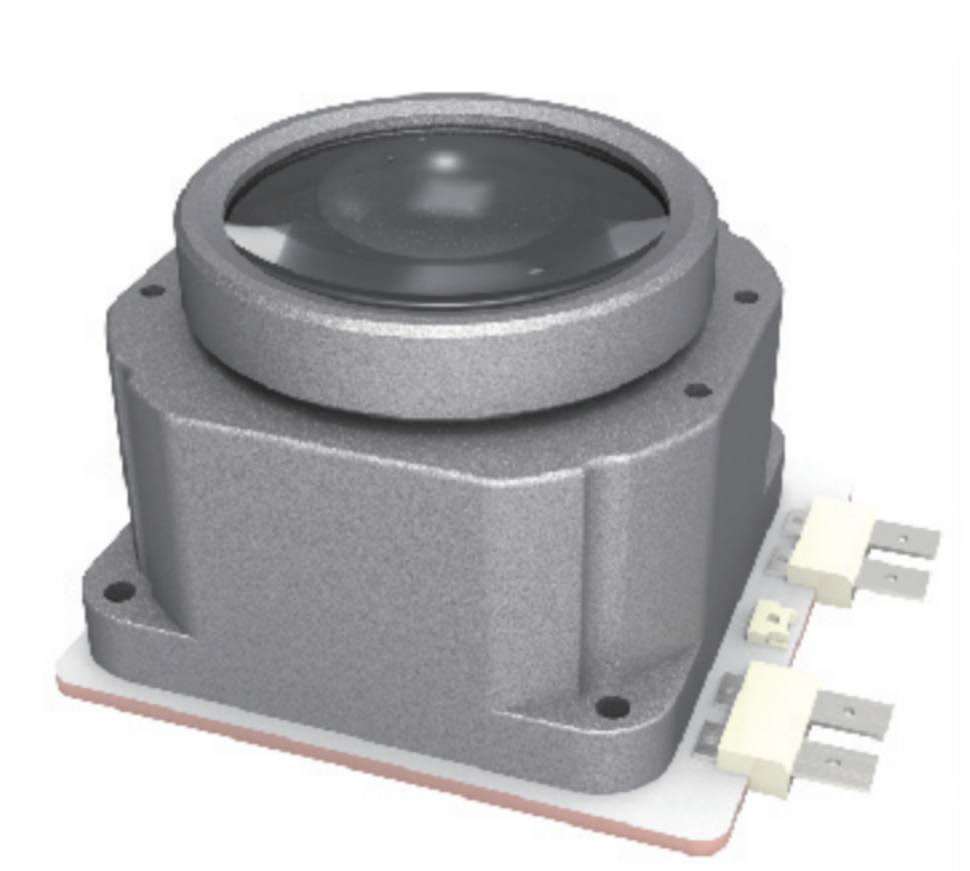
Model (w)	Power (w)	Luminous Flux (lm)	Color Temp. (k)	Full-angle Luminous Angle (°)	Aperture Diameter (mm)	Dimensions (L*W*H) (mm)	100mm Lens Angle Match (°)
MHC-12	120				/	148*23*34	X Direction: 52° Y Direction: 14°

MHP750

Light Engine Module for Stage Equipment

• Main Features

- Zero-Photon single-lens solution achieves precise focusing with low chromatic dispersion
- It features an ultra-simple optical structure system, reducing the number of components by 50% and significantly improving system reliability
- Its uniformity is superior to that of traditional compound-eye lens systems



• Parameters

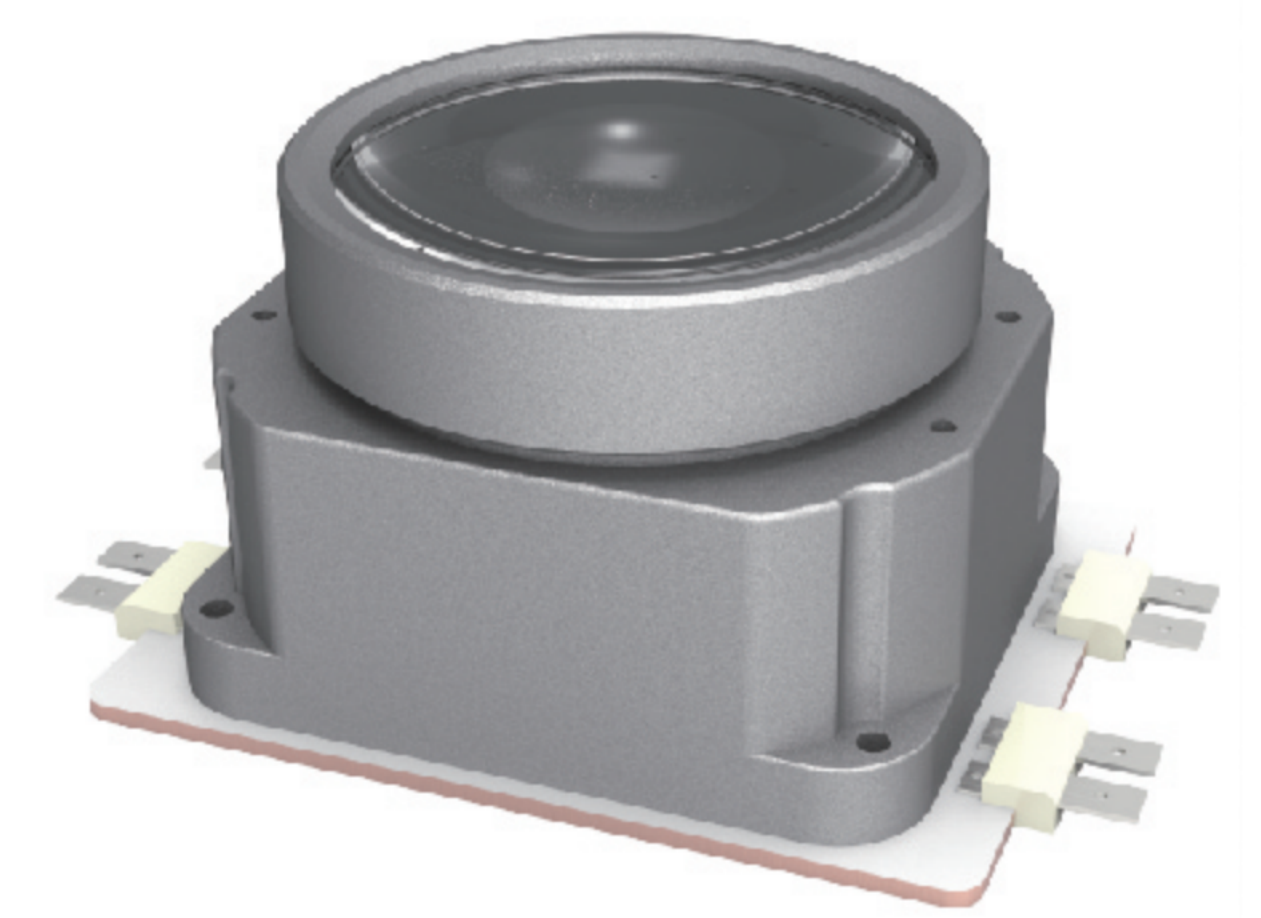
Model (w)	Power (w)	Luminous Flux (lm)	Color Temp. (k)	Full-angle Luminous Angle (°)	Aperture Diameter (mm)	Dimensions (L*W*H) (mm)	Luminous intensity of a 160mm lens (cd)
MHP750		41250	8000	56	26	92*84*60	> 1,700,000

MHP1150

Light Engine Module for Stage Equipment

• Main Features

- Zero-Photon single-lens solution achieves precise focusing with low chromatic dispersion
- It features an ultra-simple optical structure system, reducing the number of components by 50% and significantly improving system reliability
- Its uniformity is superior to that of traditional compound-eye lens systems



• Parameters

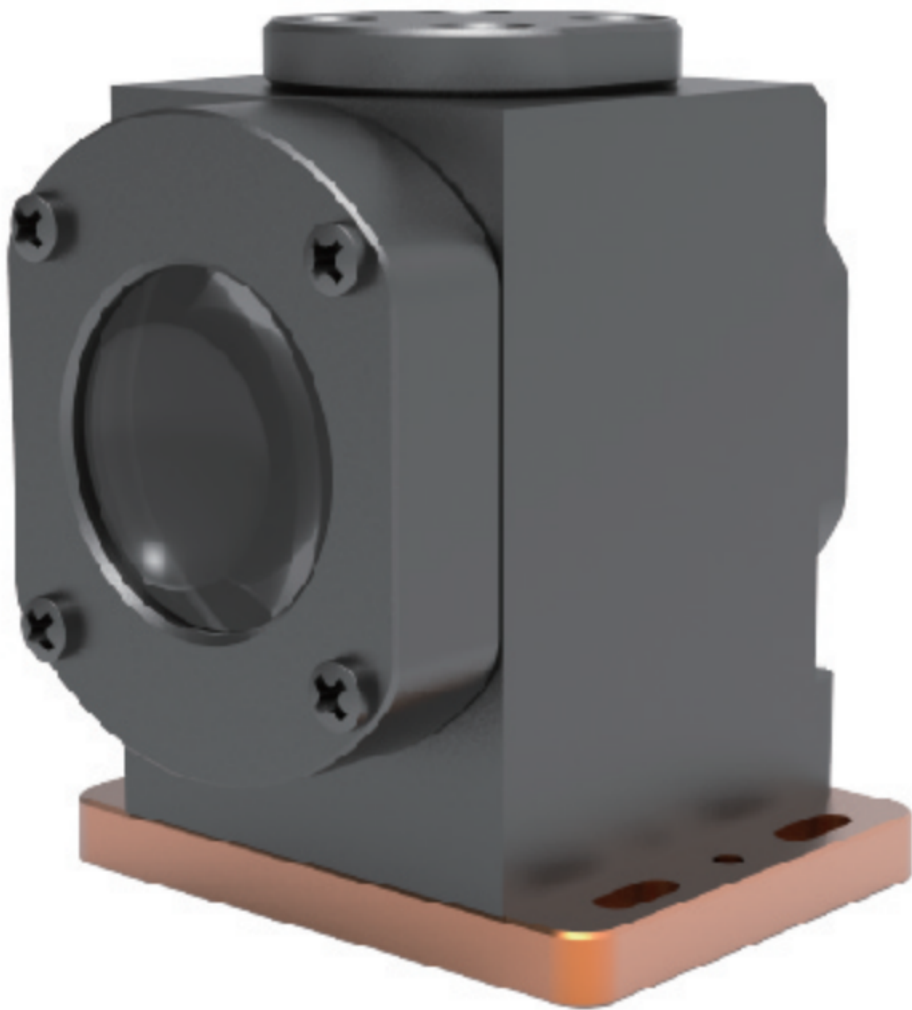
Model (w)	Power (w)	Luminous Flux (lm)	Color Temp. (k)	Full-angle Luminous Angle (°)	Aperture Diameter (mm)	Dimensions (L*W*H) (mm)	Luminous intensity of a 160mm lens (cd)
MHP1150	1150		8000	56	31	120*95*70	> 1,700,000

NP-P10

LEP Module

• Main Features

- High-energy laser excites fluorescent crystals to generate white light
- The brightness at the luminous center point reaches 2785cd/mm²
- High stability and high shock resistance
- Adjustable brightness, supporting amplitude modulation and frequency modulation



• Parameters

Model (w)	Power (w)	Luminous Flux (lm)	Color Temp. (k)	Full-angle Luminous Angle (°)	Aperture Diameter (mm)	Dimensions (L*W*H) (mm)	Luminous intensity of a 160mm lens (cd)
WP-P10	100	4500	8000	56	2.5		> 56,000,000

WP-P20

LEP Module

• Main Features

- No lens to form a focal point, zero dispersion
- High-energy laser excites fluorescent crystals to generate white light
- The brightness at the luminous center point reaches 1380cd/mm²
- High stability and high shock resistance



• Parameters

Model (w)	Power (w)	Luminous Flux (lm)	Color Temp. (k)	Full angle Luminous Angle (°)	Aperture Diameter (mm)	Dimensions (L*W*H) (mm)	Luminous intensity of a 230mm lens (cd)
NP-P20	240	12500	8000	68	//	84*65*73	57,400,000

SHANGHAI
BLUE
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