

Come from BESUN, go for BEing SUN.



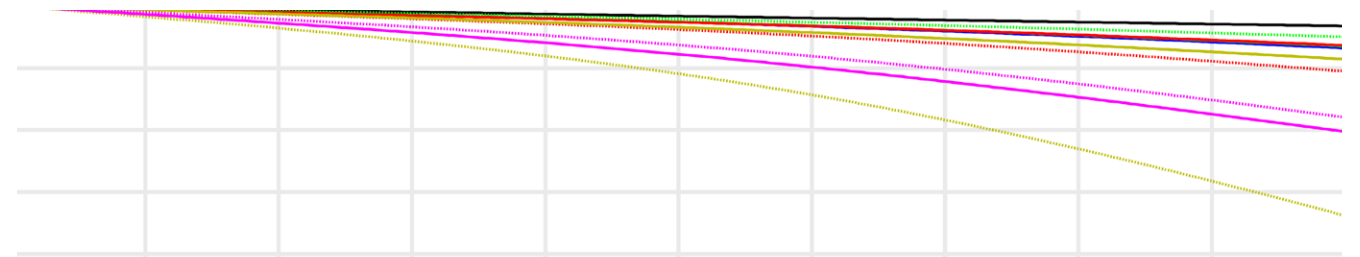
BESUN[®] LED LIMITED
深圳市冰晟光电科技有限公司

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BESUN LED LIMITED
BESUN ALL SERIES FRAMING OPTIC LENS
2023





COMPANY PROFILE

As a leader in imaging optical lighting technology, BESUN LED LIMITED. is one of the earliest domestic companies focusing on the field of imaging optical lighting. With the corporate vision of "becoming the world's leading professional product and service provider in the field of imaging lighting", BESUN continues to focus on providing professional precise optical design, optical products, optical accessories, optical control and related services.

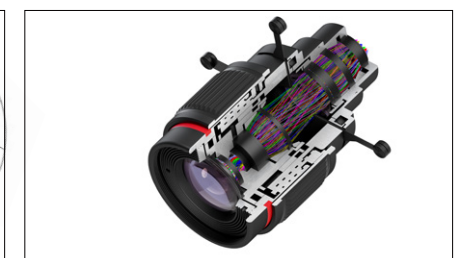
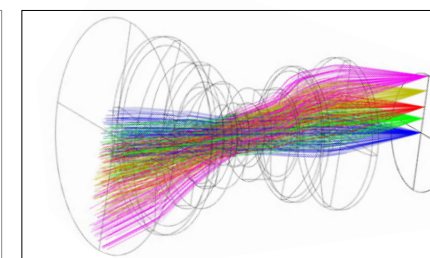
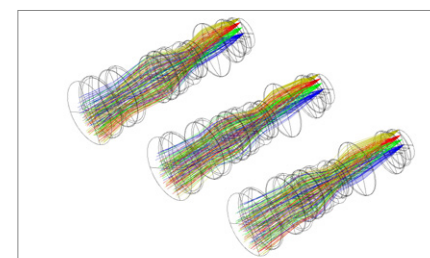
Along with the start-up development of China's LED lighting industry, BESUN LED has maintained a leading position in the Chinese market for more than 10 consecutive years. We are one of the companies with the earliest entry into the domestic imaging lighting field, the deepest technical reserves, and the most complete industrial layout. BSUN has formed a complete strategic layout of imaging optical lighting, and has R&D and manufacturing capabilities from core technology research and development such as algorithms, design, and materials to various terminal applications. With rich practical experience, BESUN LED has taken the lead in realizing the application of imaging optical systems in multiple industries or fields, such as imaging lighting optical, machine vision, military industry, lithography machine optical, etc., and has developed a large number of imaging lighting fields for more than ten years. Be the first to witness, promote and lead the development of China's imaging lighting market.

Based on the foundation of years of global development, BESUN LED has formed a global business layout and service capabilities, has allocated global resources with a global perspective, and built domestic and foreign product research and development centers including China, the United States, Russia, Germany, Italy, and South Korea. , production and marketing system, with more than 10 international patents, technology covers design, optical, material science, high-precision machining, software and multi-system combination of hardware, software and various algorithms, products are exported to more than 90 countries around the world and regions, laying a solid foundation for promoting the development of global imaging optical lighting.

作为成像光学照明技术引领者, 深圳市冰晨光电科技有限公司(BESUN LED LIMITED.)是国内最早专注于成像光学照明领域的公司之一。以“成为成像照明领域全球领先的顶尖专业产品与服务提供商”为企业愿景, 冰晨持续专注于提供精准与专业的光学设计、光学产品、光学配件、光学控制等服务。

冰晨光电伴随中国LED照明产业起步发展, 连续10余年保持中国市场领先地位, 是国内成像照明领域进入时间最早、技术储备最深厚、产业布局最完备的公司之一。公司已形成了完整的成像光学照明战略布局, 拥有从算法、设计、材料等核心技术研发到各类终端应用的研发制造能力。冰晨光电以丰富的实战经验, 率先实现成像光学系统在多行业/领域的应用(成像照明光学, 机器视觉, 军工领域, 光刻机光学等), 十余年来开拓了大量成像照明领域的先河, 始终见证、推动、引领中国成像照明市场的发展。

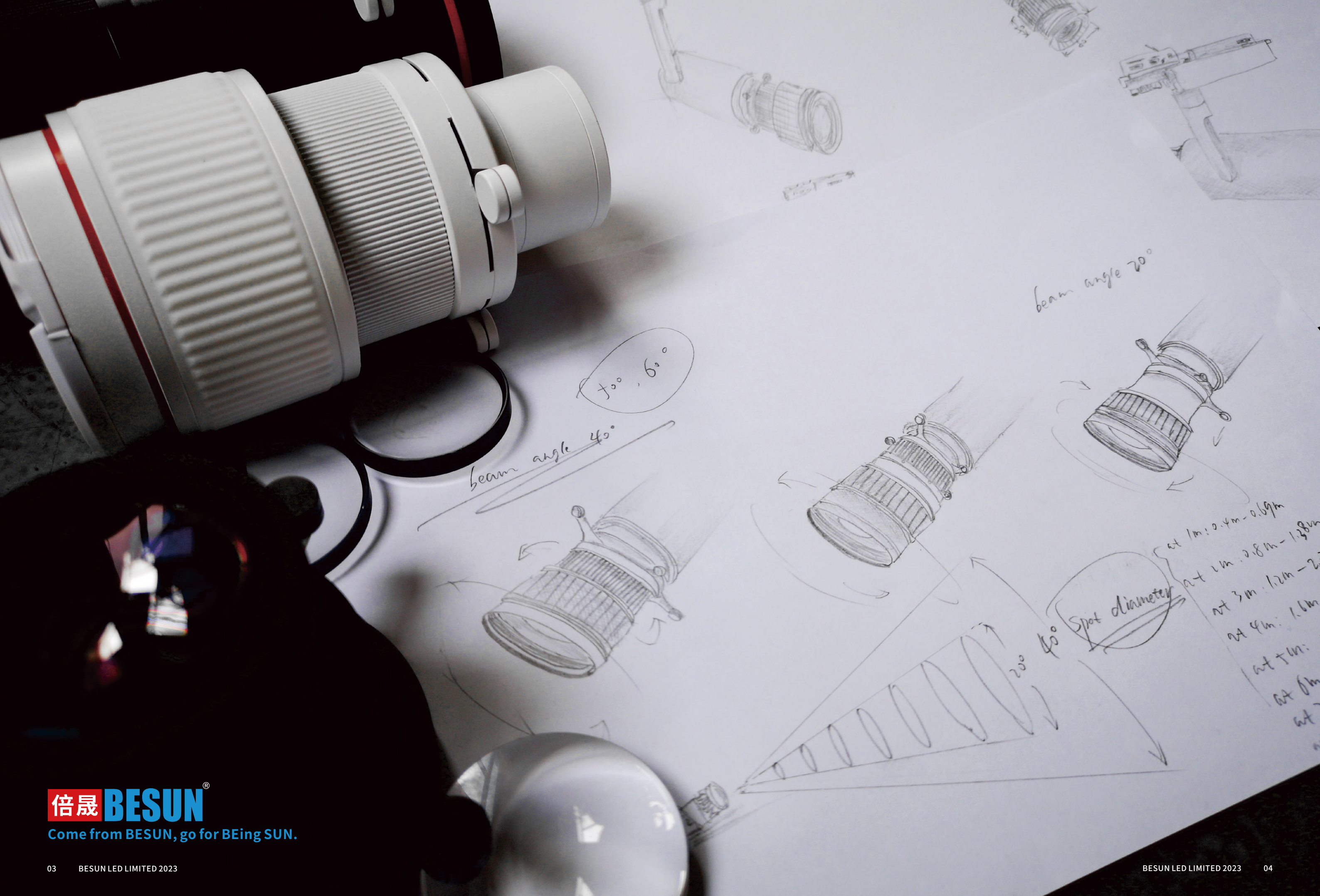
依据多年全球化发展基础, 冰晨光电已形成全球化业务布局和服务能力, 以全球化视野进行全球资源配置, 构建了以中国、美国、俄罗斯、德国、意大利、韩国在内的国内外产品研发、生产与营销体系, 拥有超过10余项国际专利, 技术涵盖设计, 光学, 材料学, 高精度机加工, 软件及多系统组合的硬件、软件及各类算法, 产品远销全球90多个国家和地区, 为推动全球成像光学照明发展奠定坚实基础。





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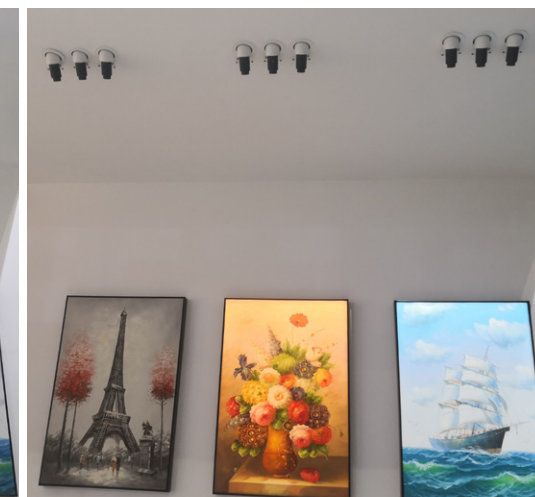


倍晟 BESUN®

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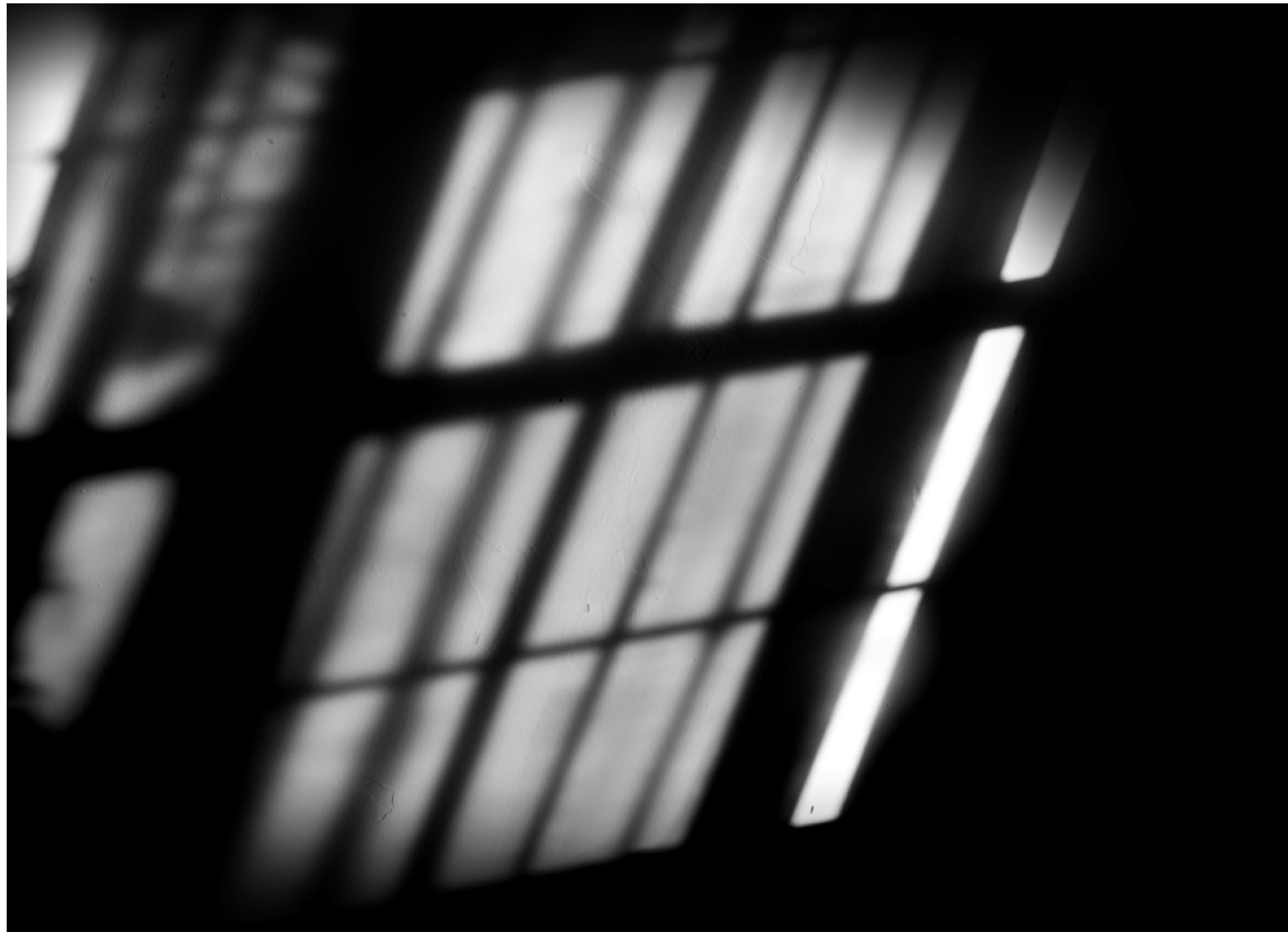
倍晟 BESUN
Come from BESUN, go for BEing SUN.



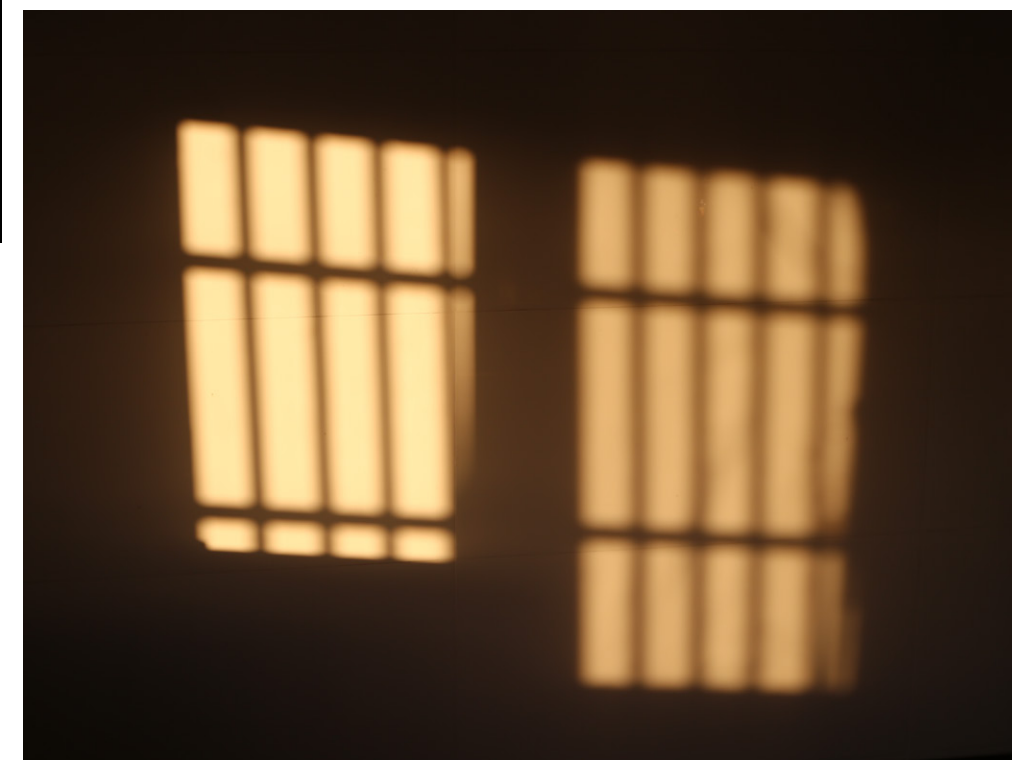








Light and shadow give life more layers.

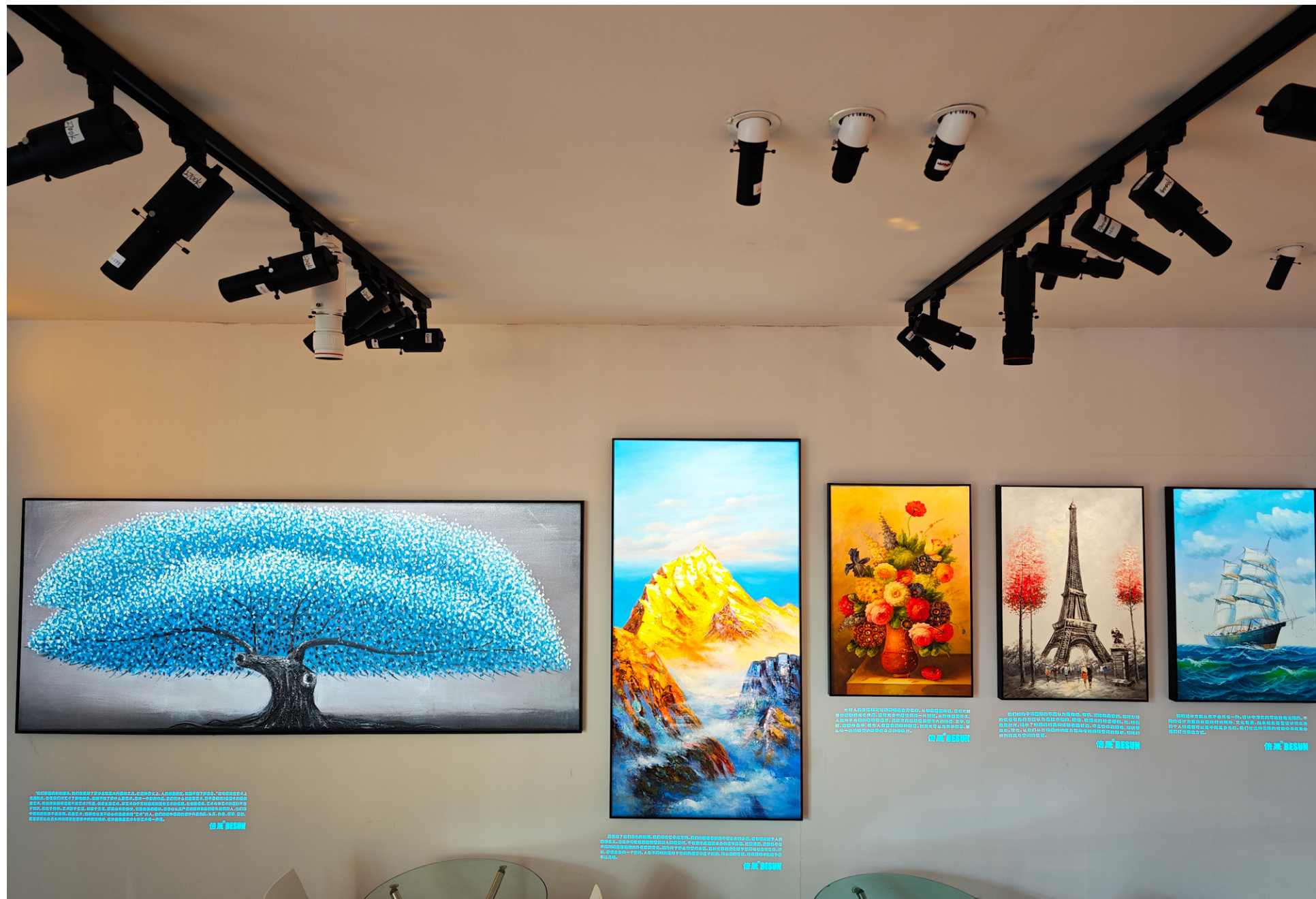




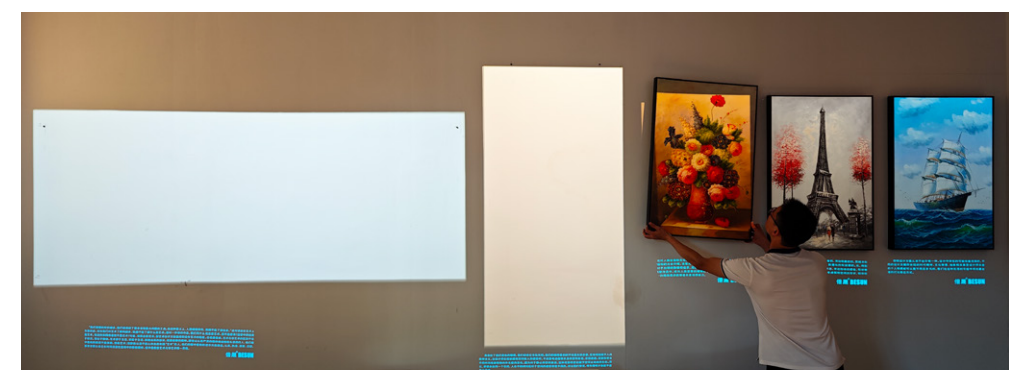
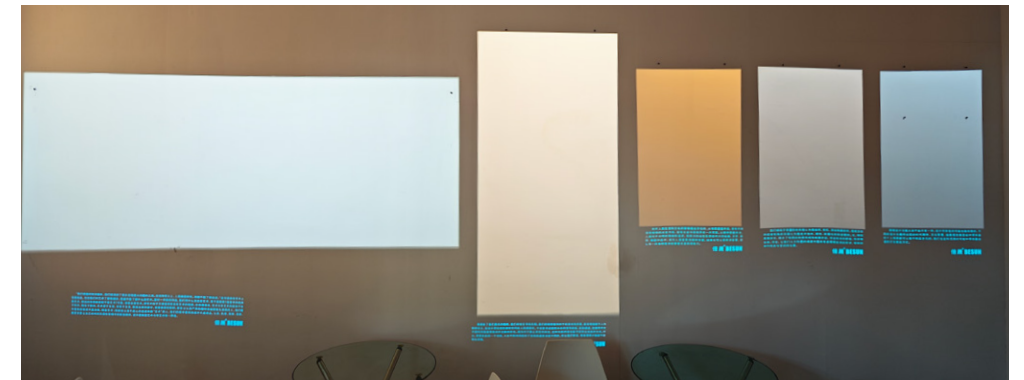
Shape + projection explanation, the combination of practicality and artistic conception, the collision of picture and text, BESUN provides you with higher-precision text projection.



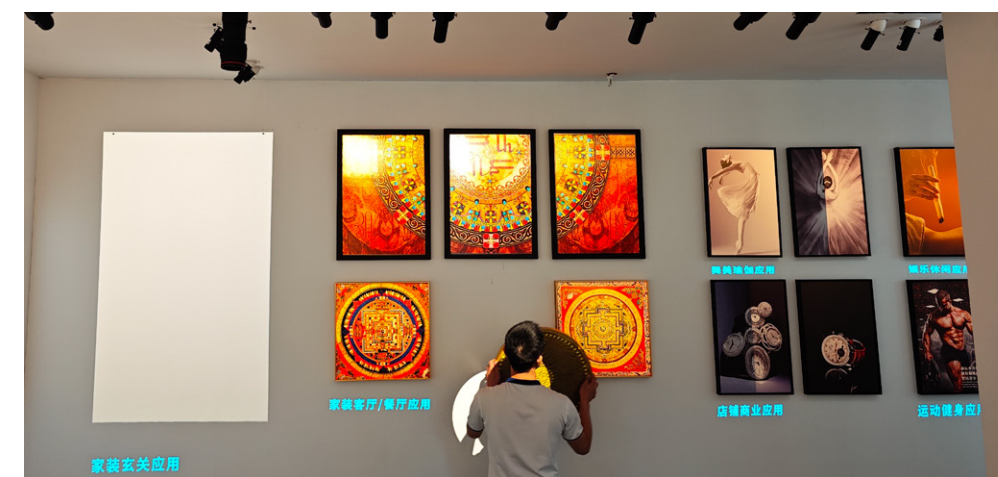
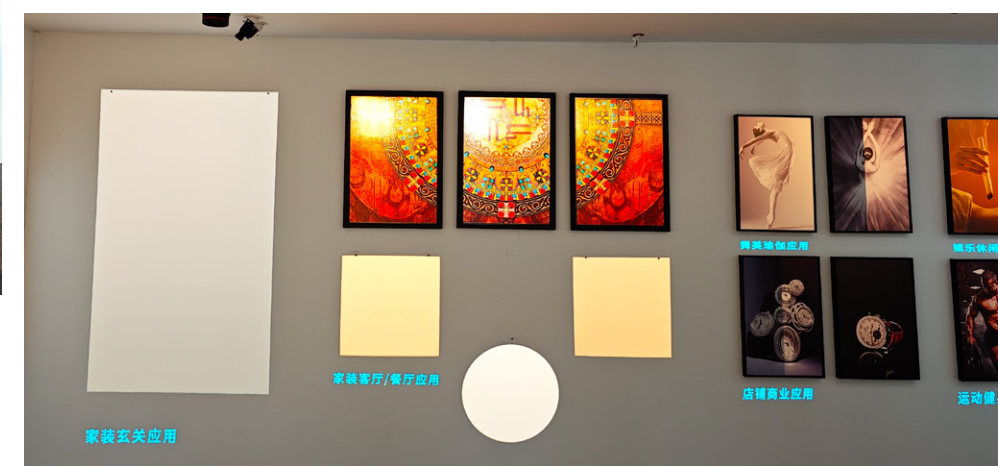
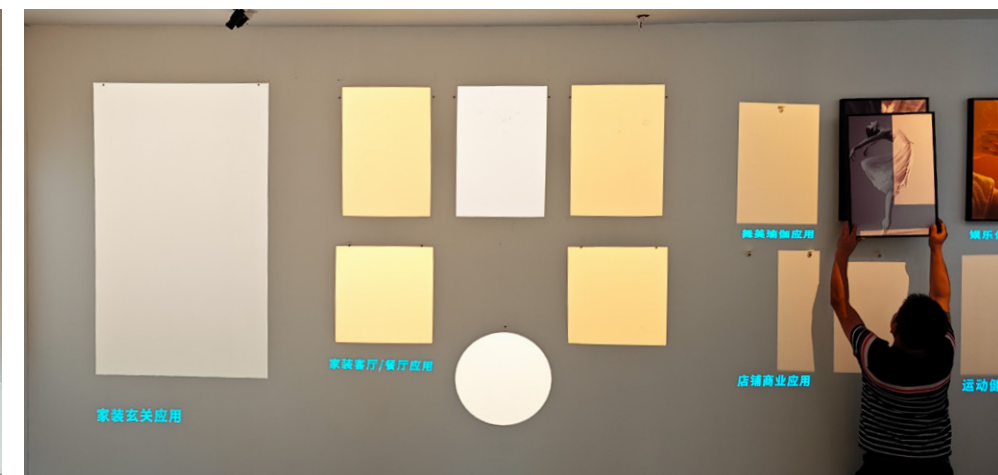
《星月夜》是后印象派画家梵·高的代表作之一。在这幅画中，梵·高用夸张的手法，生动地描绘了充满运动和变化的星空。夜晚的天空高又远，大星、小星回旋于夜空，金黄的满月形成巨大的漩涡，星云的短线条纠结、盘旋，仿佛让人们看见时光的流逝。暗绿褐色的柏树像巨大的火焰，是星夜狂欢的响应者。天空下，安睡的村庄那么宁静、安详。淡蓝的色调，动感的线条，给人自由的时空感。

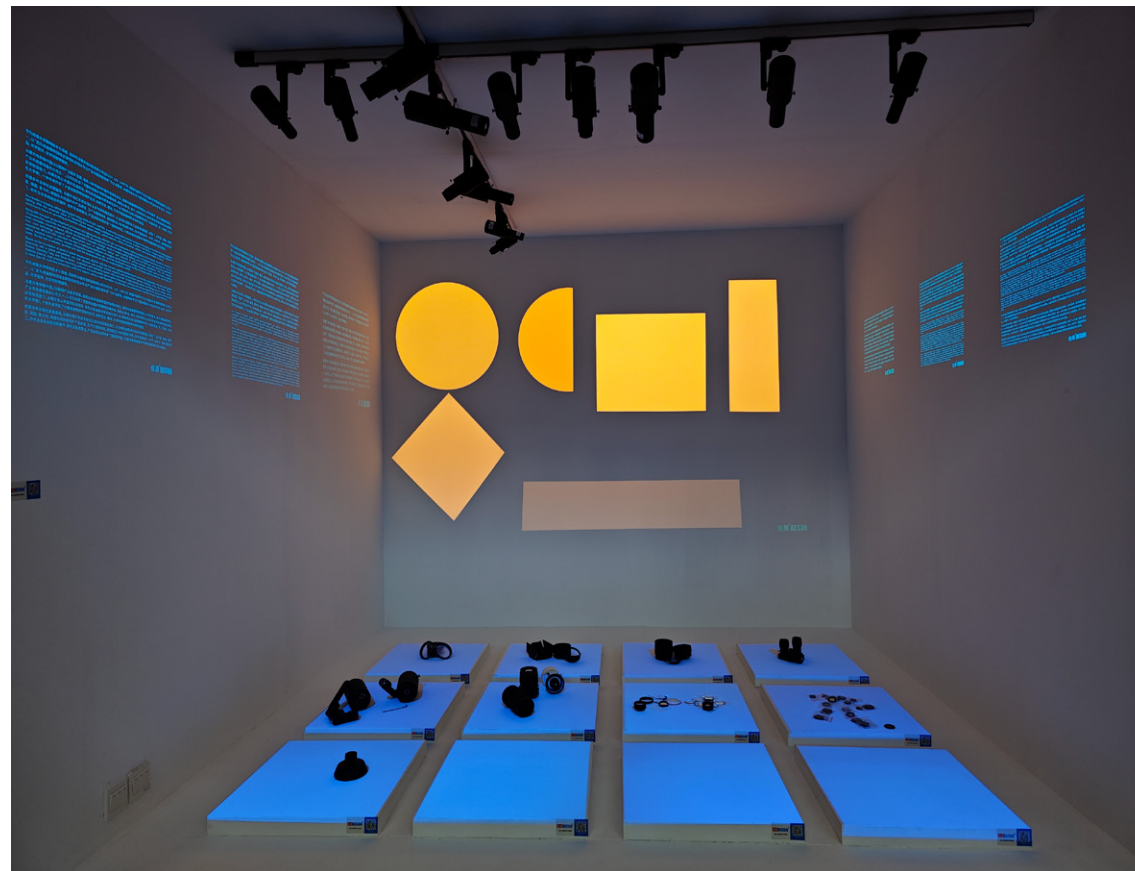
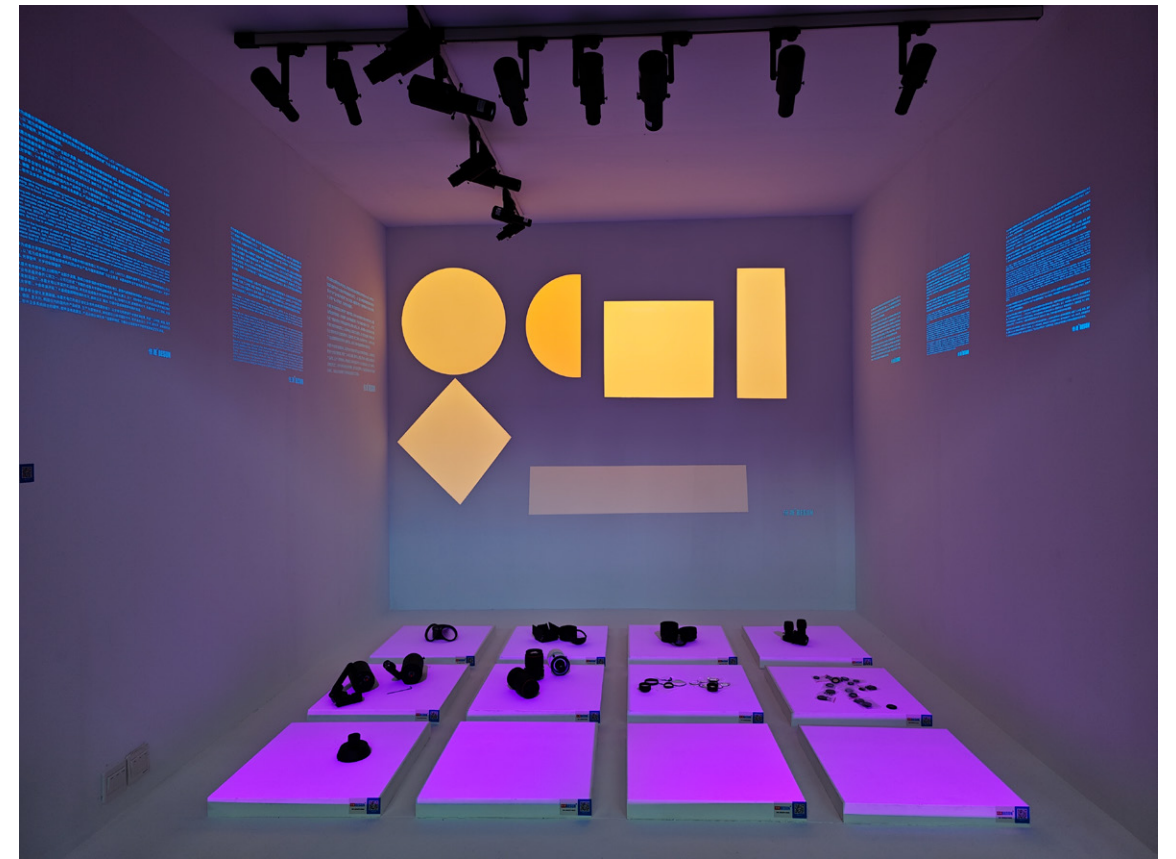
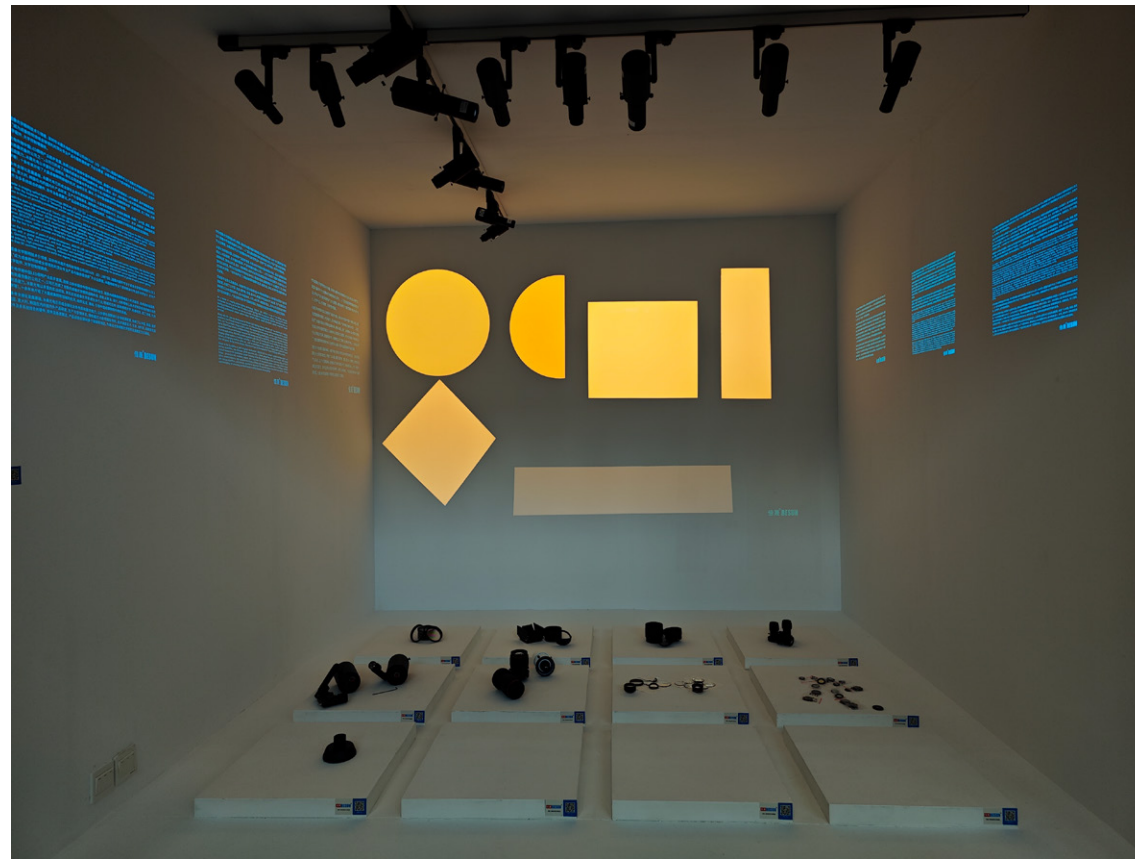


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18mm

开启柜内像素照明新纪元!
Opening a new era of pixel lighting in display cabinets!

KP series framing optic lens is a multifunctional optical lens which integrates spot shaping, zooming, fixed focus, and projection. Any of its functions is close to perfection. With a 55° ultra-large wide-angle lens and a 15°-36° constant zoom lens. No distortion, no blue edges, no chromatic aberration and support for HD projection.

KP full series framing optic lens belong to the 2.0 generation optical products, which have the following characteristics compared with I generation.

1. The four sides with the same sharp, square spot or rectangular spot can be achieved on all four sides of the same sharpness.
2. Zoom and fixed-focus lens can be switched freely(Fixed focus and zoom lenses can be switched freely under the same specifications)
3. Dust-free at all focal lengths. no matter sharp or soft light state, are not in the display of stray points.
4. No blue edge(In any state, there is no blue edge at the edge of the light spot)
5. Full-size projection (spot size and projection size can be 1:1, and has extremely high image resolution)
6. Full series supports zhaga protocol installation.



鲲鹏系列切光镜头是一款集切光,变焦,定焦,投影,于一身的多功能光学镜头.它的任何一个功能拆解出来均能在该功能领域接近完美.拥有55°的超大广角镜头和15°-36°恒定变焦镜头,无畸变、无蓝边、无色差,支持超清全尺寸投影功能。

鲲鹏镜头系列属于2代光学产品,跟1代比起来有以下特点。

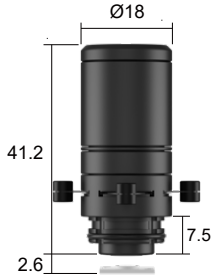
- 1、**四边同锐** (任意四边形光斑可以做到4条边的锐度相同)。
- 2、**定焦与变焦镜头任意切换** (相同规格下的定焦、变焦镜头可直接替换)。
- 3、**全焦段无尘** (不管是硬光还是柔光状态下,均不在显示杂点)。
- 4、**无蓝边** (在任意状态下,光斑边缘均无蓝边出现)。
- 5、**全尺寸投影** (光斑尺寸与投影尺寸可做到1:1,并且拥有极高的图像分辨率)。
- 6、**全系列支持zhaga协议安装。**

Whole lamp combination type 整灯组合类型



鲲鹏系列切光镜头——1836B-C

1836B-C

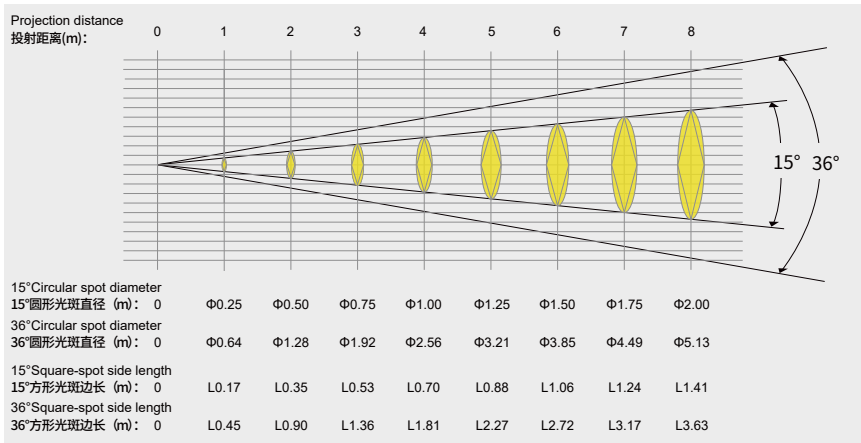


Matching luminous surface 适配光源发光面Ø<2.5mm

Official recommended light source 官方推荐光源	
3W	CITIZEN 西铁城7L3

Specification parameter 规格参数

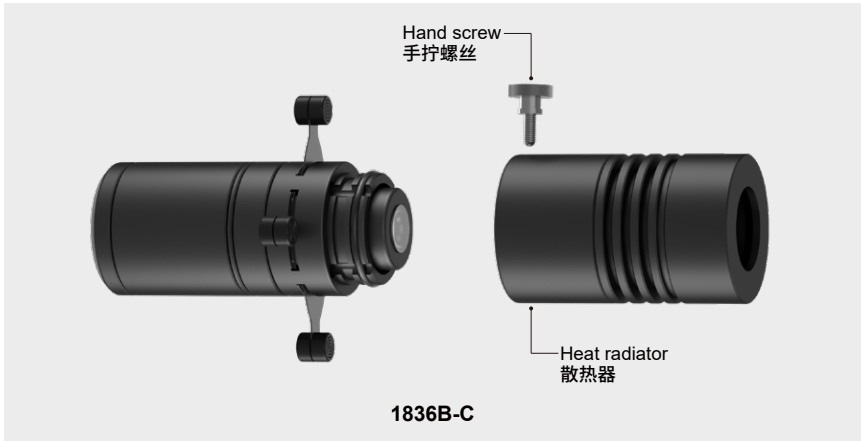
Lens model 镜头型号	1836B-C
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	15°-36°
Uniformity 均匀度	85%
TV distortion TV畸变	≤0.25%
Optical lens 光学镜片	10pcs
Light output rate 出光率	43%
Lens weight 镜头重量	18g
Filter specification 滤镜规格	Nonsupport 不支持
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	4mm内径(Inside diameter) 8.5mm外径(Outside diameter)



Radiator connection 散热器连接方式

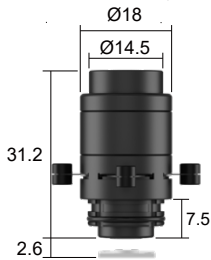
The connection between the lens and the radiator is a one-piece device, the connection device and the lens part of the fusion of non-detachable, with a strong unity, the connection between the radiator and the lens is through the combination of the pair of insertion + hand screws, assembly is fast, to a certain extent, reducing production costs and maintenance costs. Maximum possible to reduce the size of the lens, to achieve the ultimate fine.

镜头与散热器之间的连接装置为一体式装置,连接装置与镜头部分融为一体不可拆分,拥有极强的一体性,散热器与镜头间的连接方式是通过对插+手拧螺丝组合,装配快速,一定程度上降低了生 产成本与维护成本。最大可能的降低镜头体积,做到极致精细。



鲲鹏系列切光镜头——1855-C

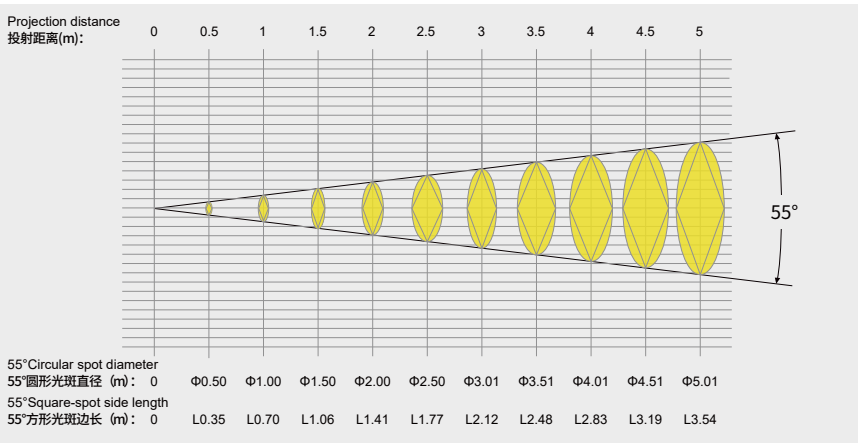
1855-C



Matching luminous surface 适配光源发光面Ø<2.5mm

Official recommended light source 官方推荐光源	
3W	CITIZEN 西铁城7L3

Specification parameter 规格参数



Lens model 镜头型号	1855-C
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	55°
Uniformity 均匀度	90%
TV distortion TV畸变	≤0.4%
Optical lens 光学镜片	10pcs
Light output rate 出光率	43%
Lens weight 镜头重量	15.1g
Filter specification 滤镜规格	Nonsupport 不支持
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	4mm内径(Inside diameter) 8.5mm外径(Outside diameter)

Radiator connection 散热器连接方式



The connection between the lens and the radiator is a one-piece device, the connection device and the lens part of the fusion of non-detachable, with a strong unity, the connection between the radiator and the lens is through the combination of the pair of insertion + hand screws, assembly is fast, to a certain extent, reducing production costs and maintenance costs. Maximum possible to reduce the size of the lens, to achieve the ultimate fine.

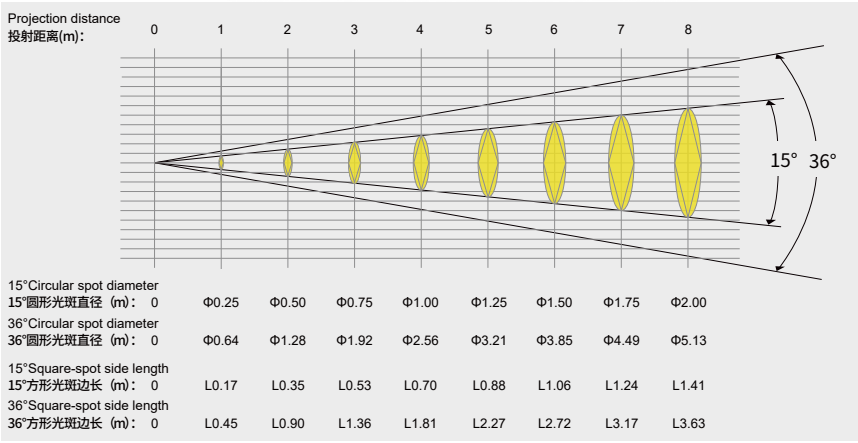
镜头与散热器之间的连接装置为一体式装置,连接装置与镜头部分融为一体不可拆分,拥有极强的一体性,散热器与镜头间的连接方式是通过对插+手拧螺丝组合,装配快速,一定程度上降低了生 产成本与维护成本。最大可能的降低镜头体积,做到极致精细。

鲲鹏系列切光镜头——2836B-C



Specification parameter 规格参数

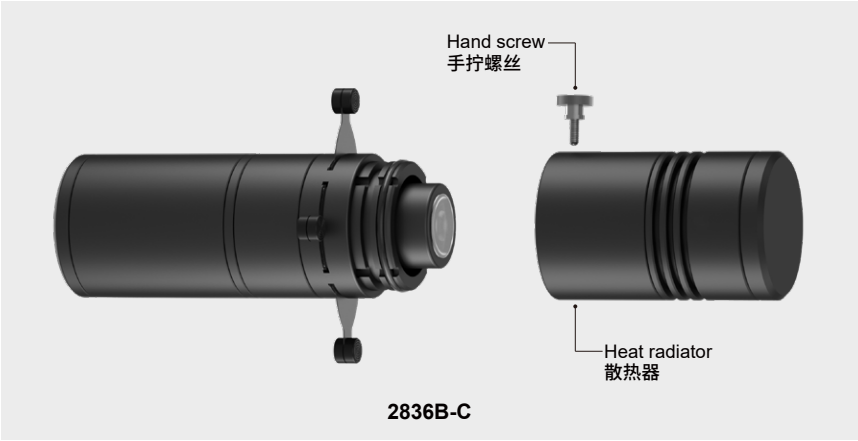
Lens model 镜头型号	2836B-C
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	15°-36°
Uniformity 均匀度	85%
TV distortion TV畸变	≤0.2%
Optical lens 光学镜片	10pcs
Light output rate 出光率	43%
Lens weight 镜头重量	66.5g
Filter specification 滤镜规格	Nonsupport 不支持
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	9mm内径(Inside diameter) 15mm外径(Outside diameter)



Radiator connection 散热器连接方式

The connection between the lens and the radiator is a one-piece device, the connection device and the lens part of the fusion of non-detachable, with a strong unity, the connection between the radiator and the lens is through the combination of the pair of insertion + hand screws, assembly is fast, to a certain extent, reducing production costs and maintenance costs. Maximum possible to reduce the size of the lens, to achieve the ultimate fine.

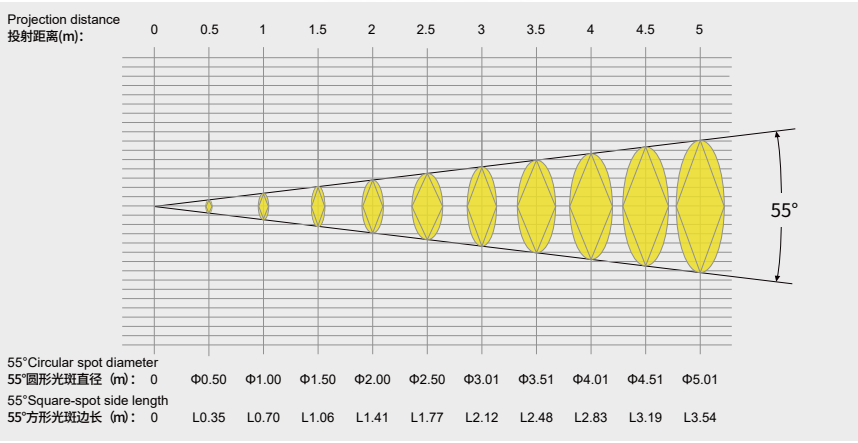
镜头与散热器之间的连接装置为一体式装置,连接装置与镜头部分融为一体不可拆分,拥有极强的一体性,散热器与镜头间的连接方式是通过对插+手拧螺丝组合,装配快速,一定程度上降低了生 产成本与维护成本。最大可能的降低镜头体积,做到极致精细。



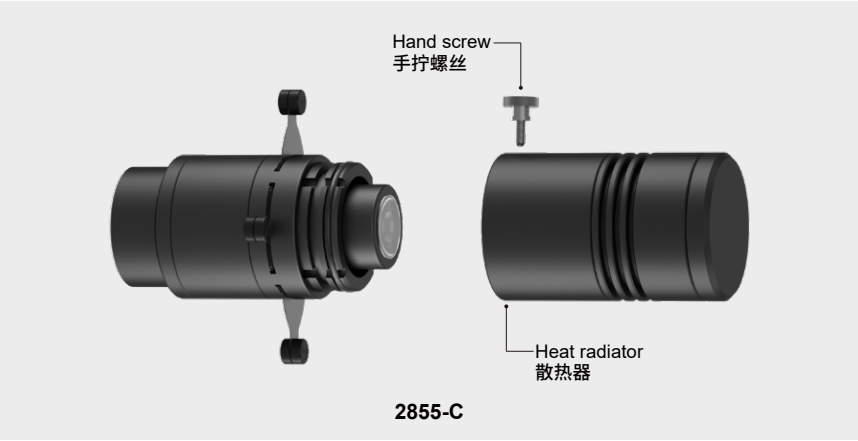
鲲鹏系列切光镜头——2855-C



Specification parameter 规格参数



Radiator connection 散热器连接方式

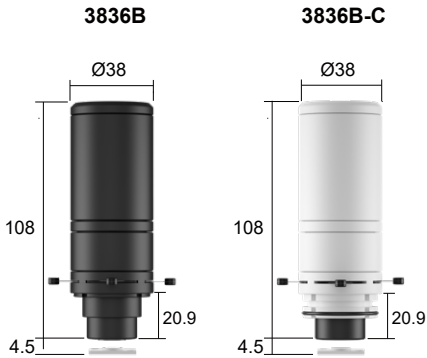


Lens model 镜头型号	2855-C
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	55°
Uniformity 均匀度	90%
TV distortion TV畸变	≤0.6%
Optical lens 光学镜片	10pcs
Light output rate 出光率	43%
Lens weight 镜头重量	54.2g
Filter specification 滤镜规格	Nonsupport 不支持
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	9mm内径(Inside diameter) 15mm外径(Outside diameter)

The connection between the lens and the radiator is a one-piece device, the connection device and the lens part of the fusion of non-detachable, with a strong unity, the connection between the radiator and the lens is through the combination of the pair of insertion + hand screws, assembly is fast, to a certain extent, reducing production costs and maintenance costs. Maximum possible to reduce the size of the lens, to achieve the ultimate fine.

镜头与散热器之间的连接装置为一体式装置,连接装置与镜头部分融为一体不可拆分,拥有极强的一体性,散热器与镜头间的连接方式是通过对插+手拧螺丝组合,装配快速,一定程度上降低了生 产成本与维护成本。最大可能的降低镜头体积,做到极致精细。

鲲鹏系列切光镜头——3836B / 3836B-C



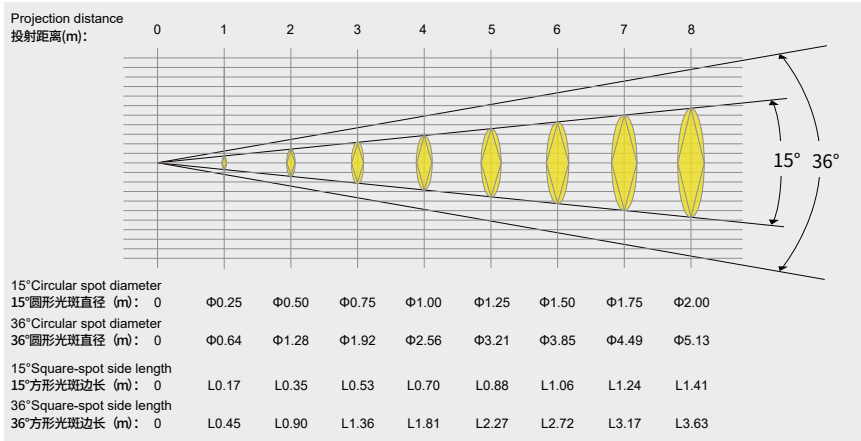
Matching luminous surface 适配光源发光面 $\varnothing < 5\text{mm}$

Official recommended light source 官方推荐光源

8-10W | CITIZEN 西铁城7A3 / TOYONIA 东洋T04

Specification parameter 规格参数

Lens model 镜头型号	3836B / 3836B-C
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	15°-36°
Uniformity 均匀度	85%
TV distortion TV畸变	0.6%
Optical lens 光学镜片	11pcs
Light output rate 出光率	43%
Lens weight 镜头重量	210g
Filter specification 滤镜规格	Nonsupport 不支持
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	14mm内径(Inside diameter) 19.7mm外径(Outside diameter)



Radiator connection 散热器连接方式

In order to meet the needs of different users, according to the difference of the structural parts connected with the radiator, the connection device of the lens can be divided into conventional (detachable, split connection device) and C (non-detachable, integrated connection device), increasing the selectivity at the same time, the matching of the radiator is more diverse, so that it is convenient to disassemble and accurately connected.

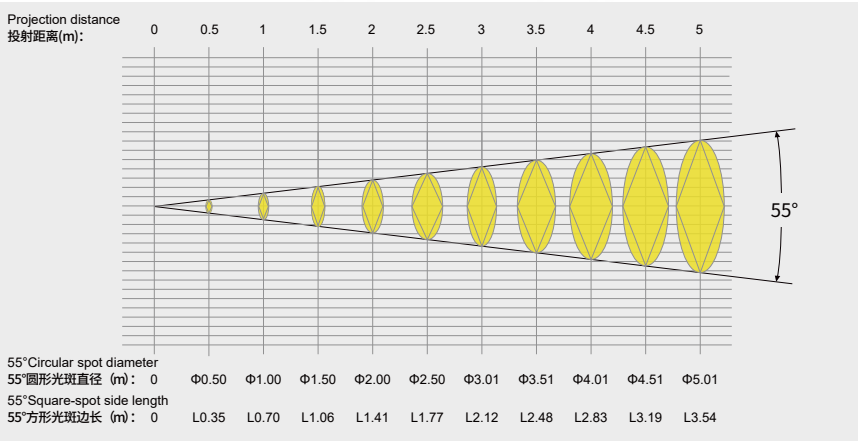
为满足不同用户的使用需求,研发部门针对散热器连接的结构件不同,镜头的连接装置可分为常规款(可拆卸,分体式连接装置)、C款(不可拆卸,一体式连接装置),增加选择性的同时,散热器的匹配性也更加多样,做到拆卸方便,精准连接。



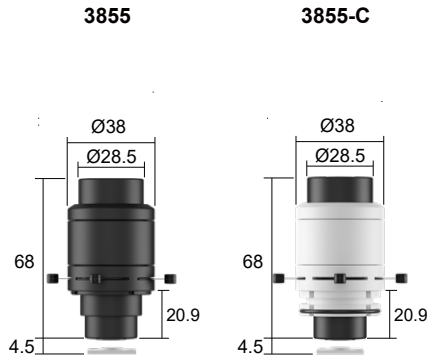
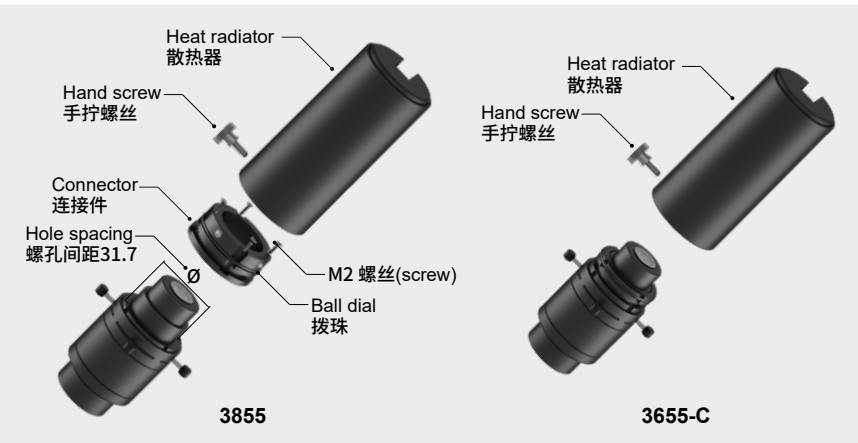
鲲鹏系列切光镜头——3855 / 3855-C



Specification parameter 规格参数



Radiator connection 散热器连接方式



Matching luminous surface 适配光源发光面 $\varnothing < 5\text{mm}$

Official recommended light source 官方推荐光源

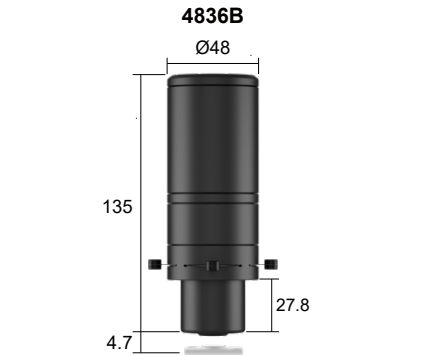
8-10W | CITIZEN 西铁城7A3 / TOYONIA 东洋T04

Lens model 镜头型号	3855 / 3855-C
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	55°
Uniformity 均匀度	90%
TV distortion TV畸变	0.6%
Optical lens 光学镜片	10pcs
Light output rate 出光率	43%
Lens weight 镜头重量	129g
Filter specification 滤镜规格	Nonsupport 不支持
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	14mm内径(Inside diameter) 19.7mm外径(Outside diameter)

In order to meet the needs of different users, according to the difference of the structural parts connected with the radiator, the connection device of the lens can be divided into conventional (detachable, split connection device) and C (non-detachable, integrated connection device), increasing the selectivity at the same time, the matching of the radiator is more diverse, so that it is convenient to disassemble and accurately connected.

为满足不同用户的使用需求,研发部门针对散热器连接的结构件不同,镜头的连接装置可分为常规款(可拆卸,分体式连接装置)、C款(不可拆卸,一体式连接装置),增加选择性的同时,散热器的匹配性也更加多样,做到拆卸方便,精准连接。

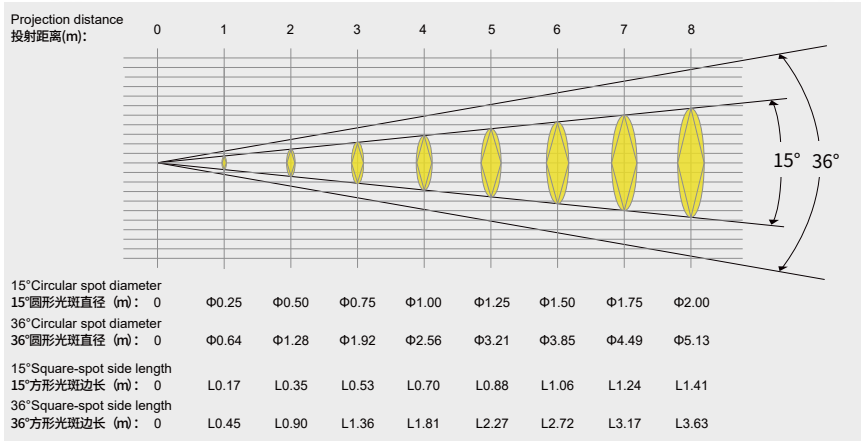
鲲鹏系列切光镜头——4836B



Matching luminous surface 适配光源发光面Ø<7mm	
Official recommended light source 官方推荐光源	
20W	CITIZEN 西铁城703 / TOYONIA 东洋T20

Specification parameter 规格参数

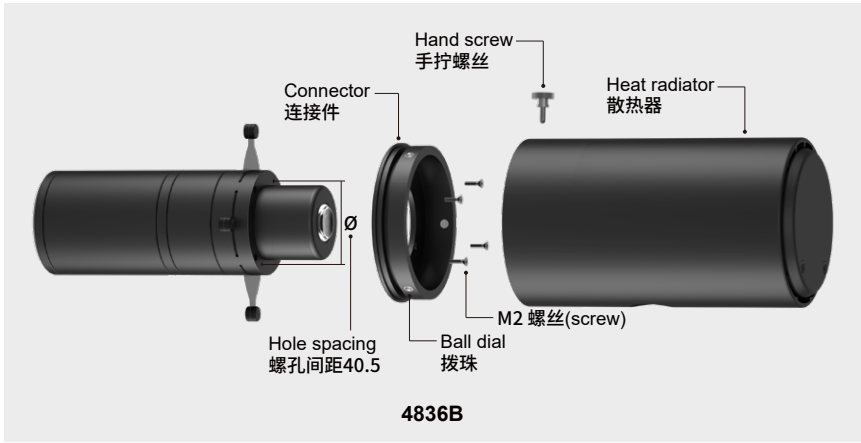
Lens model 镜头型号	4836B
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	15°-36°
Uniformity 均匀度	85%
TV distortion TV畸变	≤0.5%
Optical lens 光学镜片	11pcs
Light output rate 出光率	45%
Lens weight 镜头重量	360g
Filter specification 滤镜规格	Nonsupport 不支持
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	19mm内径(Inside diameter) 24.5mm外径(Outside diameter)



Radiator connection 散热器连接方式

The connection device between the lens and the radiator is a split device (connector), the connector can be removed and replaced. The lens is combined with the radiator through connector+4 pcs M2 screws+ball dial+hand screws.This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the right.

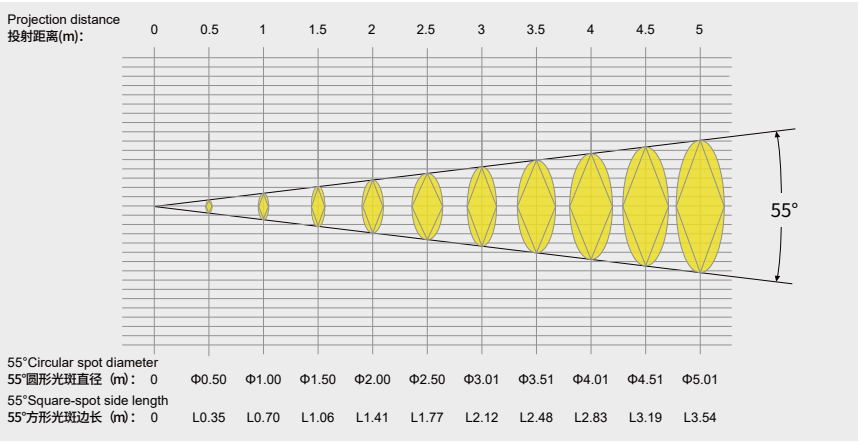
镜头与散热器之间的连接装置为分体式装置(连接件),连接件可拆卸替换;镜头是通过连接件+4个M2螺丝+拨珠+手拧螺丝与散热器相组合,此连接方式适配程度高,连接精准的同时拆卸也方便快捷,如右图所示。



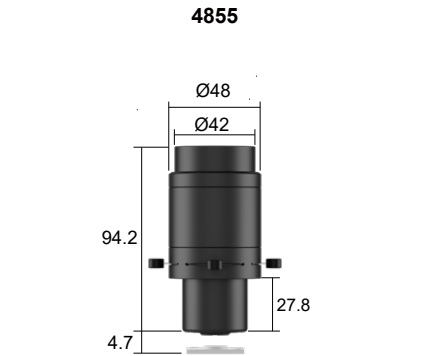
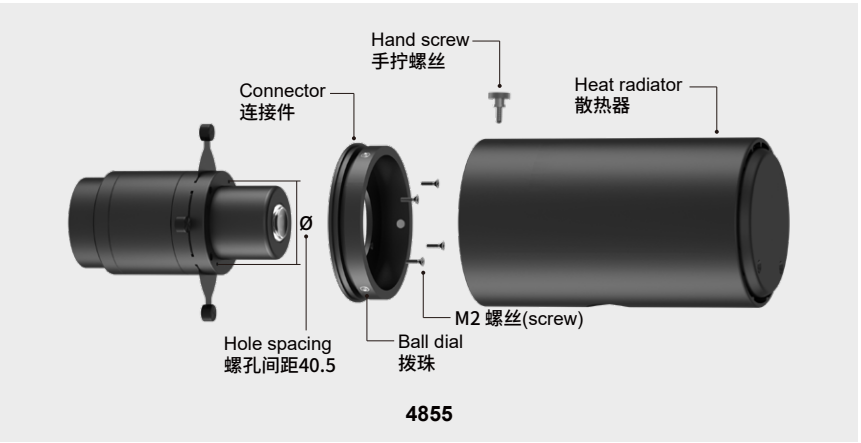
鲲鹏系列切光镜头——4855



Specification parameter 规格参数



Radiator connection 散热器连接方式



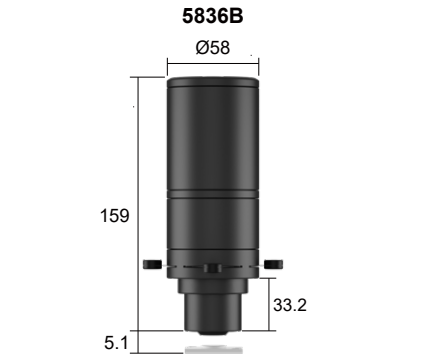
Matching luminous surface 适配光源发光面Ø<7mm	
Official recommended light source 官方推荐光源	
20W	CITIZEN 西铁城703 / TOYONIA 东洋T20

Lens model 镜头型号	4855
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	55°
Uniformity 均匀度	90%
TV distortion TV畸变	≤0.5%
Optical lens 光学镜片	10pcs
Light output rate 出光率	45%
Lens weight 镜头重量	294g
Filter specification 滤镜规格	Nonsupport 不支持
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	19mm内径(Inside diameter) 24.5mm外径(Outside diameter)

The connection device between the lens and the radiator is a split device (connector), the connector can be removed and replaced. The lens is combined with the radiator through connector+4 pcs M2 screws+ball dial+hand screws.This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the left.

镜头与散热器之间的连接装置为分体式装置(连接件),连接件可拆卸替换;镜头是通过连接件+4个M2螺丝+拨珠+手拧螺丝与散热器相组合,此连接方式适配程度高,连接精准的同时拆卸也方便快捷,如左图所示。

鲲鹏系列切光镜头——5836B



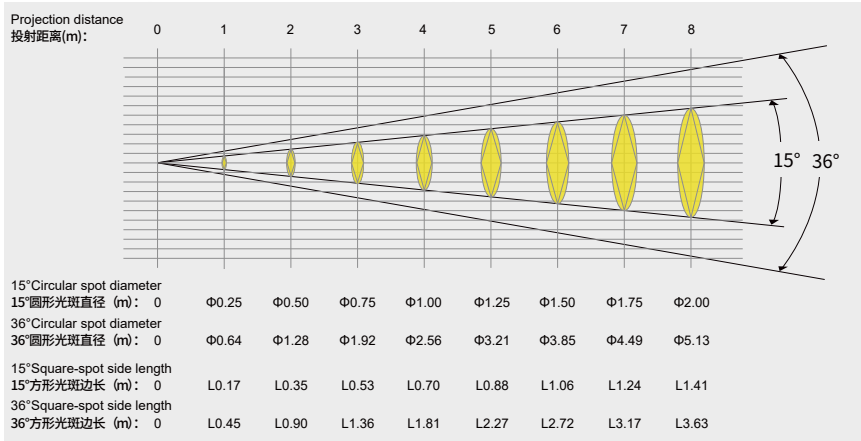
Matching luminous surface 适配光源发光面Ø<9mm

Official recommended light source 官方推荐光源

28W	TOYONIA 东洋T20
28-37W	CITIZEN 西铁城713

Specification parameter 规格参数

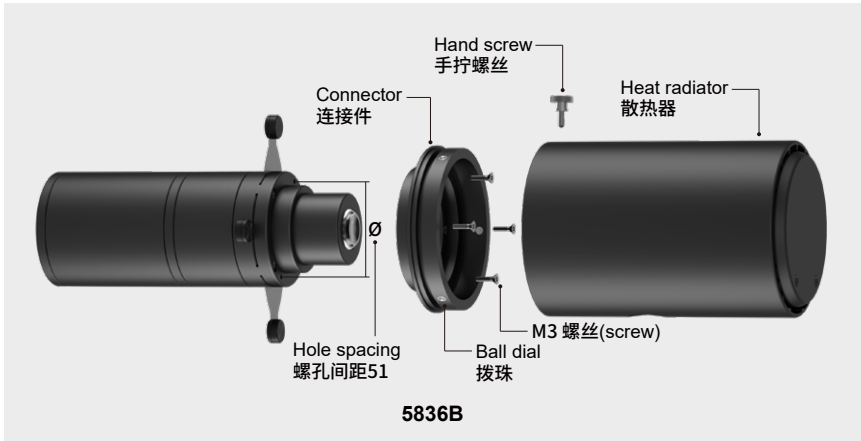
Lens model 镜头型号	5836B
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	15°-36°
Uniformity 均匀度	85%
TV distortion TV畸变	≤0.5%
Optical lens 光学镜片	11pcs
Light output rate 出光率	45%
Lens weight 镜头重量	604.2g
Filter specification 滤镜规格	Nonsupport 不支持
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	24mm内径(Inside diameter) 31.2mm外径(Outside diameter)



Radiator connection 散热器连接方式

The connection device between the lens and the radiator is a split device (connector), the connector can be removed and replaced. The lens is combined with the radiator through connector+4 pcs M3 screws+ball dial+hand screws.This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the right.

镜头与散热器之间的连接装置为分体式装置(连接件),连接件可拆卸替换;镜头是通过连接件+4个M3螺丝+拨珠+手拧螺丝与散热器相组合,此连接方式适配程度高,连接精准的同时拆卸也方便快捷,如右图所示。



鲲鹏系列切光镜头——5855

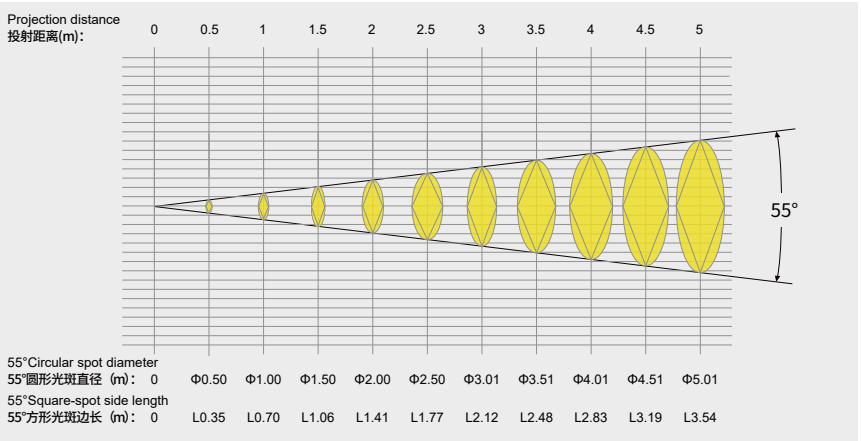


Matching luminous surface 适配光源发光面Ø<9mm

Official recommended light source 官方推荐光源

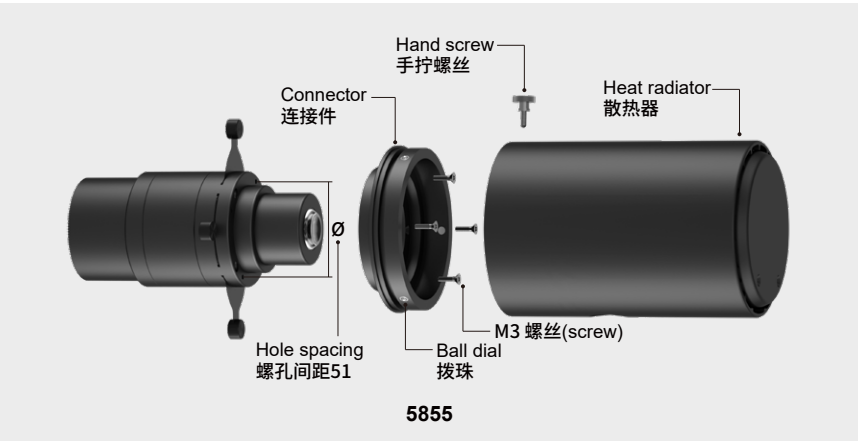
28W	TOYONIA 东洋T20
28-37W	CITIZEN 西铁城713

Specification parameter 规格参数



Lens model 镜头型号	5855
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	55°
Uniformity 均匀度	90%
TV distortion TV畸变	≤0.34%
Optical lens 光学镜片	11pcs
Light output rate 出光率	48%
Lens weight 镜头重量	479.2g
Filter specification 滤镜规格	Nonsupport 不支持
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	24mm内径(Inside diameter) 31.2mm外径(Outside diameter)

Radiator connection 散热器连接方式



The connection device between the lens and the radiator is a split device (connector), the connector can be removed and replaced. The lens is combined with the radiator through connector+4 pcs M3 screws+ball dial+hand screws.This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the left.

镜头与散热器之间的连接装置为分体式装置(连接件),连接件可拆卸替换;镜头是通过连接件+4个M3螺丝+拨珠+手拧螺丝与散热器相组合,此连接方式适配程度高,连接精准的同时拆卸也方便快捷,如左图所示。

① High-definition optical lens design

A new optical path specially designed for COB light sources.

高清光学镜片设计

一种专门为COB光源设计的全新光路。

② Bidirectional stepless linear zoom design

Rotating the device to adjust the spot size.

双向无极线性变焦设计

转动该装置可调节光斑大小。

③ Multi-layer dry damping design

Rotating the device can change the sharpness of the spot.

多层干式阻尼设计

转动该装置可改变光斑锐度。

④ Optical-grade variable aperture design

Manual insertion and removal of the light cut sheet can freely change the shape of the spot.

光学级可变光阑设计

手动插拔切光片装置可随意改变光斑的形状。

Industrial Grade Optical Filters

It can match a variety of industrial-grade optical filters and support the customization of special narrowband and ultra narrowband optical filters. Some filter functions can be superimposed, such as HD UV+color filter, HD UV+soft filter, amongst others.

工业级光学滤镜

可匹配各种工业级光学滤镜, 可定做特殊窄带、极窄带光学滤镜, 部分滤镜功能可叠加, 例如: HD UV+颜色片滤镜, HD UV+柔光滤镜等等。



Diffuser 柔光滤镜



ND filter 减光滤镜



Color filter 颜色滤镜



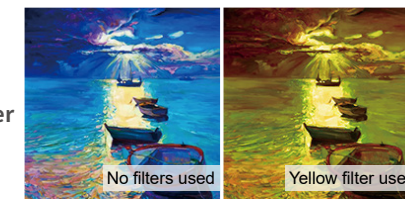
CPL filter 偏振滤镜



UV filter UV滤镜

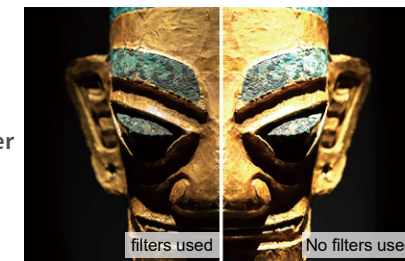
GND filter 渐变滤镜

Color filter



The luminous color of the lamp can be adjusted according to your needs.

ND filter



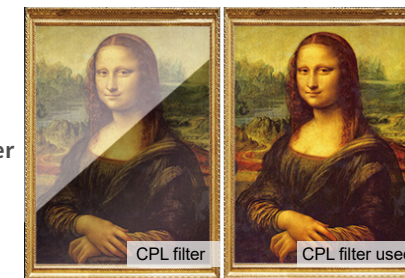
With electronic dimming, the small-angle illumination can be reduced to less than 75LUX, which is generally used for authentic lighting.

UV filter



It can effectively filter UV rays in LED lamps and lanterns, thus protecting the illuminated object. It delivers superior performance in silk products lighting and cultural relics lighting.

CPL filter



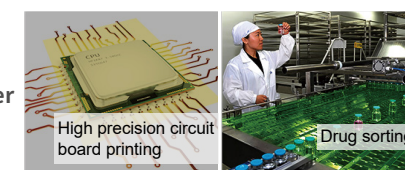
It can eliminate the reflection of the object's surface so that the object in a high luminosity environment can also display its original appearance.

GND filter



GND filter are used to alter the light ratio into the lens. For example, in illuminating the oblique side of the square position of the object, the use of gradient filters allows the even and constant illumination of the object.

Other filter



Various filters in special bands can be customized according to your actual needs. They can be used in various unique places, such as wafer cutting, high-precision circuit board printing, and drug sorting.

DQ series framing optic lens is a multifunctional optical lens which integrates spot shaping, zooming, and projection. It is a product with complete independent intellectual property rights and global patents. It can adjust the shape, size and sharpness of the spot; through the insertion of light blocking imaging, you can arbitrarily adjust the shape of the spot.

DQ series of framing optic lens belongs to the 1.5 generation of optical products, compared with the first generation has the following characteristics.

1. Zoom and fixed-focus lens can be arbitrarily switched (the same specifications under the DQ zoom lens and XQ fixed-focus lens can be directly replaced).
2. High light efficiency (compared to the first generation of products, the light efficiency increased by 35%).
3. Delicate rotation feel (linear zoom, delicate feel).
4. Full series supports zhaga protocol installation.



4525SE



4536SE



7525SE



7536SE

大乔系列切光镜头是一款集切光,变焦,投影,于一身的多功能光学镜头.是一款拥有完全自主知识产权和全球专利的产品.可调节光斑形状,大小和锐度;通过插片挡光成像,可任意调节光斑形状。

大乔系列切光镜头属于1.5代光学产品,跟1代比起来有以下特点。

- 1、变焦与定焦镜头任意切换 (相同规格下大乔变焦镜头与小乔定焦镜头可直接替换)。
- 2、高光效 (相比1代产品出光效率提升35%)。
- 3、细腻的转动手感 (线性变焦,手感细腻)。
- 4、全系列支持zhaga协议安装。

Whole lamp combination type 整灯组合类型



大乔系列切光镜头——4525SE



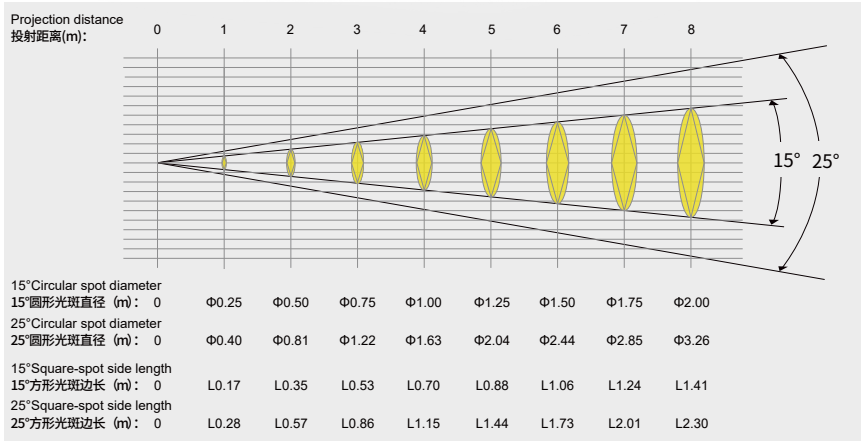
Matching luminous surface 适配光源发光面Ø<5mm

Official recommended light source 官方推荐光源

8-10W | CITIZEN 西铁城7A3 / TOYONIA 东洋T04

Specification parameter 规格参数

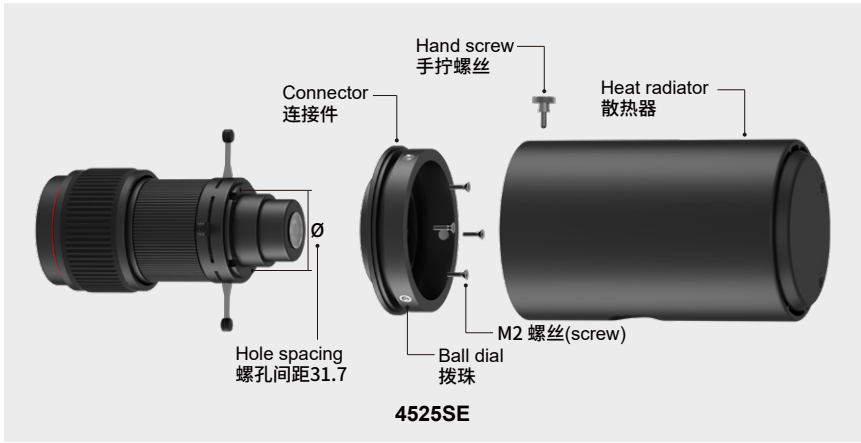
Lens model 镜头型号	4525SE
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	15°-25°
Uniformity 均匀度	83%
TV distortion TV畸变	≤1.5%
Optical lens 光学镜片	8pcs
Light output rate 出光率	45%
Lens weight 镜头重量	187g
Filter specification 滤镜规格	37mm
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.2/65%
Gobo size 投影片尺寸	10mm内径(Inside diameter) 19.7mm外径(Outside diameter)



Radiator connection 散热器连接方式

The connection device between the lens and the radiator is a split device (connector), the connector can be removed and replaced. The lens is combined with the radiator through connector+4 pcs M2 screws+ball dial+hand screws.This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the right.

镜头与散热器之间的连接装置为分体式装置(连接件),连接件可拆卸替换;镜头是通过连接件+4个M2螺丝+拨珠+手拧螺丝与散热器相组合,此连接方式适配程度高,连接精准的同时拆卸也方便快捷,如右图所示。



大乔系列切光镜头——4536SE

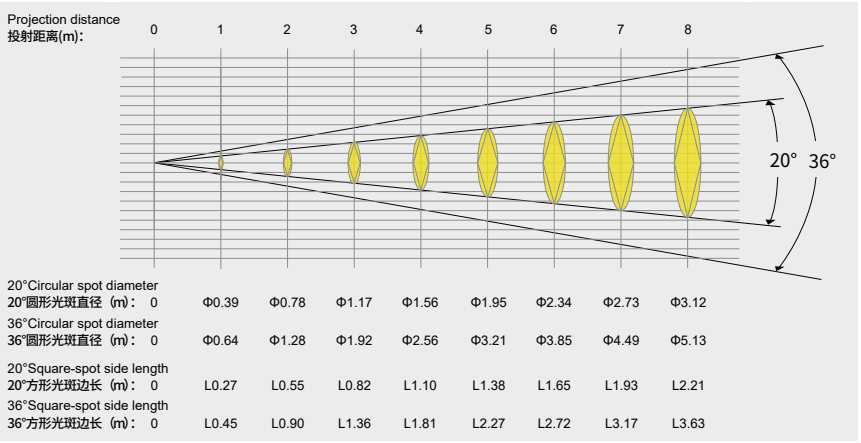


Matching luminous surface 适配光源发光面Ø<5mm

Official recommended light source 官方推荐光源

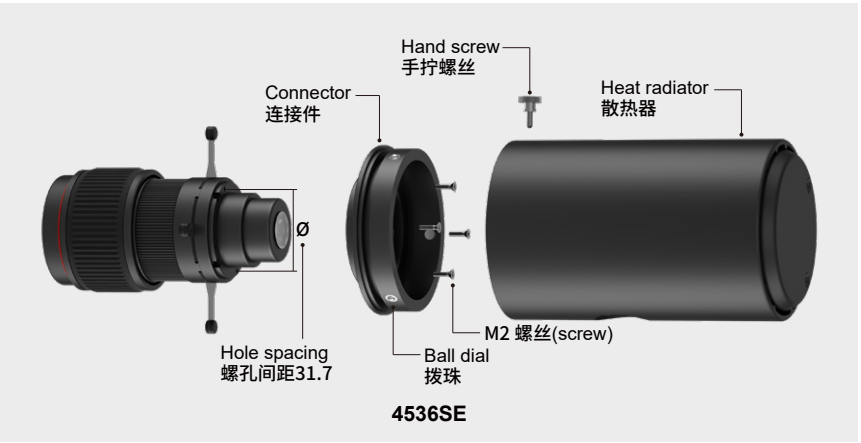
8-10W | CITIZEN 西铁城7A3 / TOYONIA 东洋T04

Specification parameter 规格参数



Lens model 镜头型号	4536SE
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	20°-36°
Uniformity 均匀度	83%
TV distortion TV畸变	≤1.8%
Optical lens 光学镜片	10pcs
Light output rate 出光率	45%
Lens weight 镜头重量	184g
Filter specification 滤镜规格	37mm
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.2/65%
Gobo size 投影片尺寸	10mm内径(Inside diameter) 19.7mm外径(Outside diameter)

Radiator connection 散热器连接方式



The connection device between the lens and the radiator is a split device (connector), the connector can be removed and replaced. The lens is combined with the radiator through connector+4 pcs M2 screws+ball dial+hand screws.This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the left.

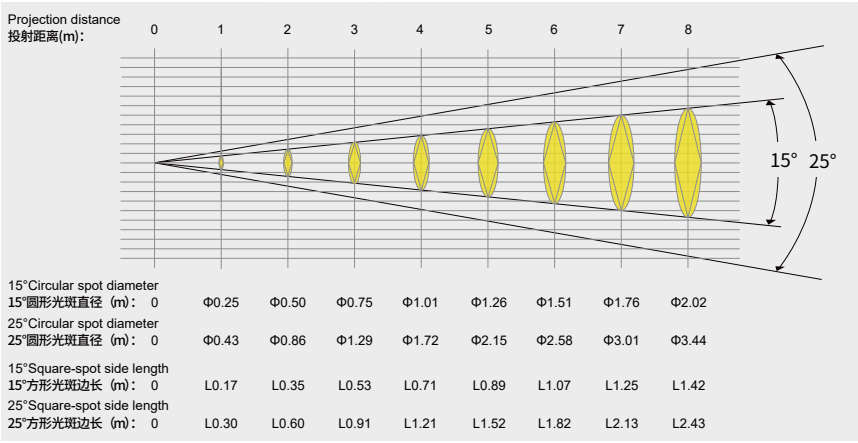
镜头与散热器之间的连接装置为分体式装置(连接件),连接件可拆卸替换;镜头是通过连接件+4个M2螺丝+拨珠+手拧螺丝与散热器相组合,此连接方式适配程度高,连接精准的同时拆卸也方便快捷,如左图所示。

大乔系列切光镜头——7525SE



Specification parameter 规格参数

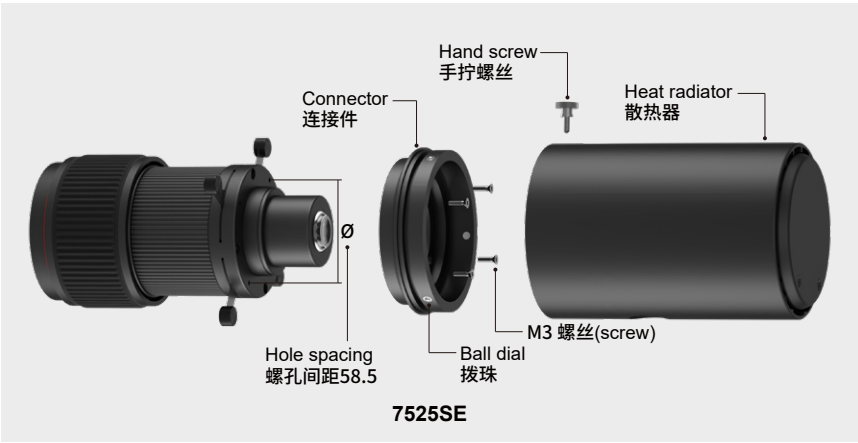
Lens model 镜头型号	7525SE
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	15°-25°
Uniformity 均匀度	80%
TV distortion TV畸变	≤1.5%
Optical lens 光学镜片	8pcs
Light output rate 出光率	55%
Lens weight 镜头重量	742g
Filter specification 滤镜规格	67mm
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.2/65%
Gobo size 投影片尺寸	18mm内径(Inside diameter) 31.2mm外径(Outside diameter)



Radiator connection 散热器连接方式

The connection device between the lens and the radiator is a split device (connector). the connector can be removed and replaced, The lens is combined with the radiator through connector+4 pcs M3 screws+ball dial+hand screws.This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the right.

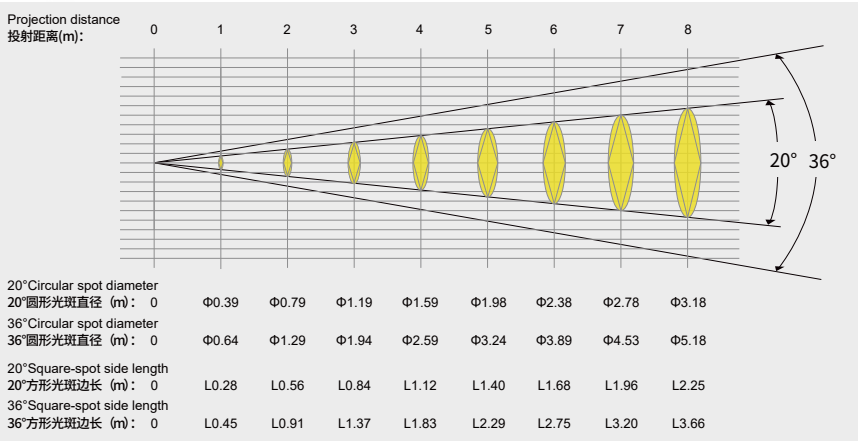
镜头与散热器之间的连接装置为分体式装置(连接件), 连接件可拆卸替换; 镜头是通过连接件+4个M3螺丝+拨珠+手拧螺丝与散热器相组合, 此连接方式适配程度高, 连接精准的同时拆卸也方便快捷, 如右图所示。



大乔系列切光镜头——7536SE

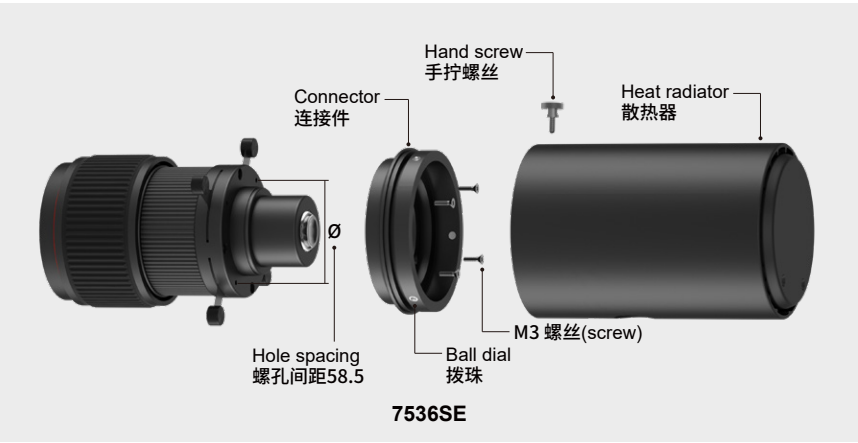


Specification parameter 规格参数



Lens model 镜头型号	7536SE
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	20°-36°
Uniformity 均匀度	80%
TV distortion TV畸变	≤1.8%
Optical lens 光学镜片	10pcs
Light output rate 出光率	55%
Lens weight 镜头重量	755.5g
Filter specification 滤镜规格	67mm
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.2/65%
Gobo size 投影片尺寸	18mm内径(Inside diameter) 31.2mm外径(Outside diameter)

Radiator connection 散热器连接方式



The connection device between the lens and the radiator is a split device (connector), the connector can be removed and replaced. The lens is combined with the radiator through connector+4 pcs M3 screws+ball dial+hand screws.This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the left.

镜头与散热器之间的连接装置为分体式装置(连接件), 连接件可拆卸替换; 镜头是通过连接件+4个M3螺丝+拨珠+手拧螺丝与散热器相组合, 此连接方式适配程度高, 连接精准的同时拆卸也方便快捷, 如左图所示。



Diffuser 柔光滤镜



Color filter 颜色滤镜



ND filter 减光滤镜



CPL filter 偏振滤镜



UV filter UV滤镜

GND filter 渐变滤镜

Industrial Grade Optical Filters

It can match a variety of industrial-grade optical filters and support the customization of special narrowband and ultra narrowband optical filters. Some filter functions can be superimposed, such as HD UV+color filter, HD UV+soft filter, amongst others.

工业级光学滤镜

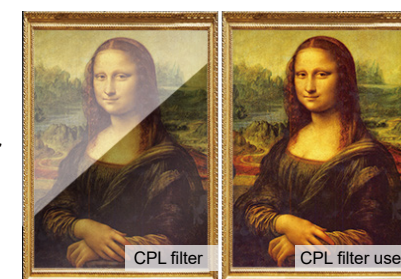
可匹配各种工业级光学滤镜,可定做特殊窄带、极窄带光学滤镜,部分滤镜功能可叠加,例如:HD UV+颜色片滤镜,HD UV+柔光滤镜等等。

UV filter



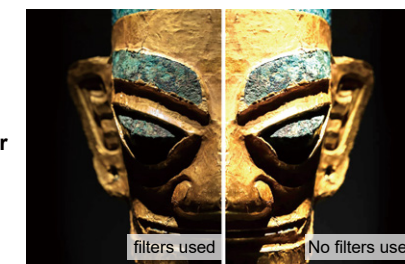
It can effectively filter UV rays in LED lamps and lanterns, thus protecting the illuminated object. It delivers superior performance in silk products lighting and cultural relics lighting.

CPL filter



It can eliminate the reflection of the CPL filter so that the object in a high luminosity environment can also display its original appearance.

ND filter



With electronic dimming, the small-angle illumination can be reduced to less than 75LUX, which is generally used for authentic lighting.

GND filter



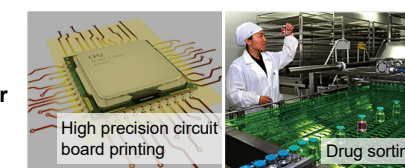
GND filter are used to alter the light ratio into the lens. For example, in illuminating the oblique side of the square position of the object, the use of gradient filters allows the even and constant illumination of the object.

Color filter



The luminous color of the lamp can be adjusted according to your needs.

Other filter



Various filters in special bands can be customized according to your actual needs. They can be used in various unique places, such as wafer cutting, high-precision circuit board printing, and drug sorting.

小乔系列切光镜头

XQ series framing optic lens is a very powerful shapeable light, any of its functions can be dismantled to be close to perfection in that area of functionality, with a 55 degree wide angle, no distortion, no blue edges, no chromatic aberration and support for 4K HD projection.

XQ series framing optic lens belongs to the 2.0 generation of optical products, compared with the first generation has the following characteristics.

- 1.The four sides with the same sharp, square spot or rectangular spot can be achieved on all four sides of the same sharpness.
2. Zoom and fixed-focus lens can be switched freely (DQ series zoom lens and XQ series lens can be switched freely under the same specifications).
3. Dust-free at all focal lengths. (Whether it is sharp light or soft light, it does not show impurities).
4. No blue edge (In any state, there is no blue edge at the edge of the light spot).
5. Full-size projection (spot size and projection size can be 1:1, and has extremely high image resolution).
6. Full series supports zhaga protocol installation.

小乔系列切光镜头是一款功能非常强悍的光学镜头.它的任何一个功能拆解出来均能在该功能领域接近完美.拥有55°的超大广角镜头,无畸变、无蓝边、无色差,支持超清全尺寸投影功能。

小乔系列切光镜头属于2代光学产品,跟1代比起来有以下特点。

- 1、**四边同锐** (任意四边形光斑可以做到4条边的锐度相同)。
- 2、**变焦与定焦镜头任意切换** (相同规格下大乔变焦镜头与小乔定焦镜头可直接替换)。
- 3、**全焦段无尘** (不管是硬光还是柔光状态下,均不在显示杂点)。
- 4、**无蓝边** (在任意状态下,光斑边缘均无蓝边出现)。
- 5、**全尺寸投影** (光斑尺寸与投影尺寸可做到1:1,并且拥有极高的图像分辨率)。
- 6、**全系列支持zhaga协议安装**。

7555

6055

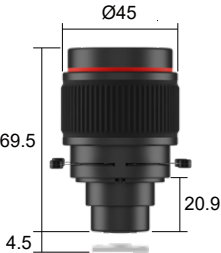
4555

Whole lamp combination type 整灯组合类型



小乔系列切光镜头——4555

4555

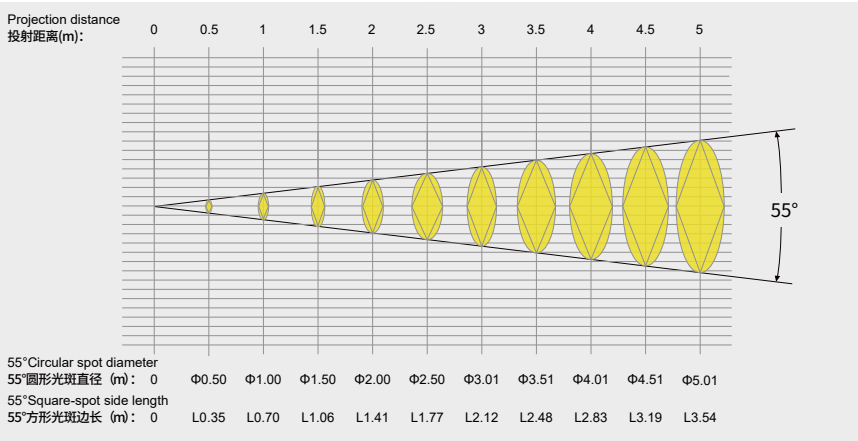


Matching luminous surface 适配光源发光面Ø<5mm

Official recommended light source 官方推荐光源

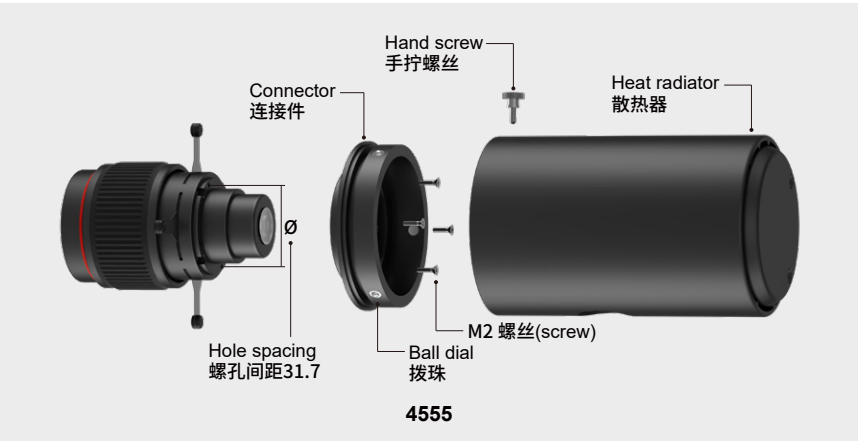
8-10W CITIZEN 西铁城7A3 / TOYONIA 东洋T04

Specification parameter 规格参数



Lens model 镜头型号	4555
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	55°
Uniformity 均匀度	90%
TV distortion TV畸变	≤0.6%
Optical lens 光学镜片	10pcs
Light output rate 出光率	43%
Lens weight 镜头重量	175g
Filter specification 滤镜规格	37mm
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	14mm内径(Inside diameter) 19.7mm外径(Outside diameter)

Radiator connection 散热器连接方式



The connection device between the lens and the radiator is a split device (connector), the connector can be removed and replaced. The lens is combined with the radiator through connector+4 pcs M2 screws+ball dial+hand screws. This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the left.

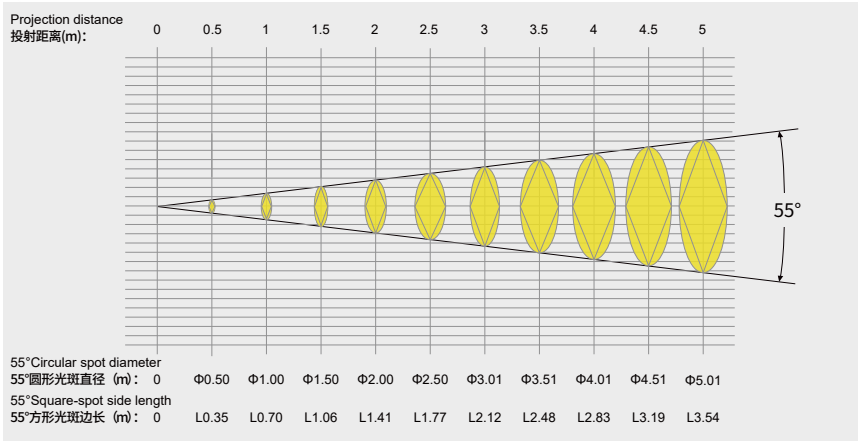
镜头与散热器之间的连接装置为分体式装置(连接件),连接件可拆卸替换;镜头是通过连接件+4个M2螺丝+拨珠+手拧螺丝与散热器相组合,此连接方式适配程度高,连接精准的同时拆卸也方便快捷,如左图所示。

小乔系列切光镜头——6055



Specification parameter 规格参数

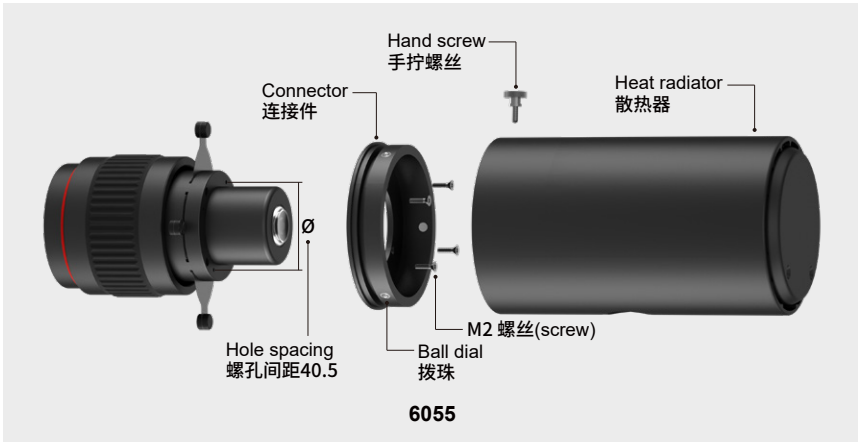
Lens model 镜头型号	6055
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	55°
Uniformity 均匀度	90%
TV distortion TV畸变	≤0.5%
Optical lens 光学镜片	10pcs
Light output rate 出光率	48%
Lens weight 镜头重量	385g
Filter specification 滤镜规格	52mm
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	19mm内径(Inside diameter) 24.5mm外径(Outside diameter)



Radiator connection 散热器连接方式

The connection device between the lens and the radiator is a split device (connector), the connector can be removed and replaced. The lens is combined with the radiator through connector+4 pcs M2 screws+ball dial+hand screws.This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the right.

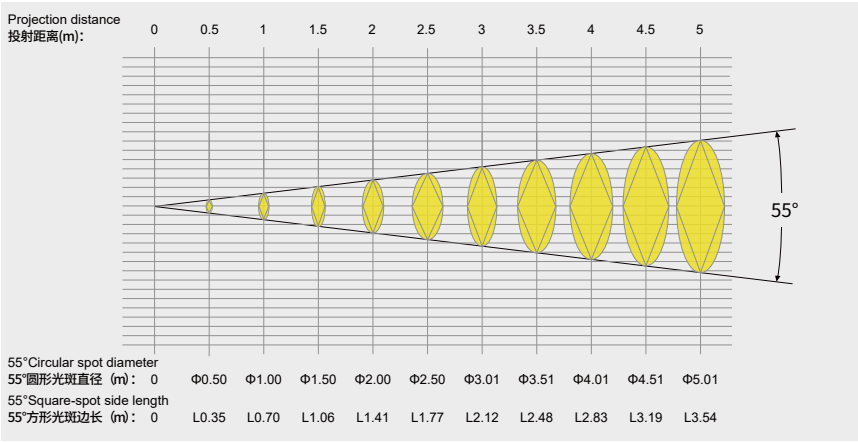
镜头与散热器之间的连接装置为分体式装置(连接件),连接件可拆卸替换;镜头是通过连接件+4个M2螺丝+拨珠+手拧螺丝与散热器相组合,此连接方式适配程度高,连接精准的同时拆卸也方便快捷,如右图所示。



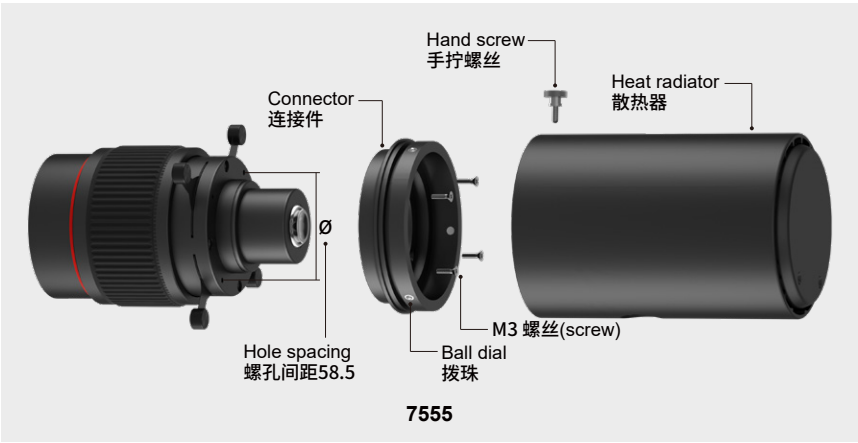
小乔系列切光镜头——7555



Specification parameter 规格参数



Radiator connection 散热器连接方式



Lens model 镜头型号	7555
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	55°
Uniformity 均匀度	90%
TV distortion TV畸变	≤0.34%
Optical lens 光学镜片	11pcs
Light output rate 出光率	48%
Lens weight 镜头重量	740g
Filter specification 滤镜规格	67mm
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.01/1
Gobo size 投影片尺寸	24mm内径(Inside diameter) 31.2mm外径(Outside diameter)

The connection device between the lens and the radiator is a split device (connector). The lens is combined with the radiator through connector+4 pcs M3 screws+ball dial+hand screws.This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the left.

镜头与散热器之间的连接装置为分体式装置(连接件),连接件可拆卸替换;镜头是通过连接件+4个M3螺丝+拨珠+手拧螺丝与散热器相组合,此连接方式适配程度高,连接精准的同时拆卸也方便快捷,如左图所示。



歌者系列切光镜头——画幅1:0.8
GZ Series Framing Optic Lens. Frame size 1:0.8



① High-definition optical lens design

A new optical path specially designed for COB light sources.

高清光学镜片设计

一种专门为COB光源设计的全新光路。

② Multi-layer dry damping design

Rotating the device to adjust the spot size.

多层干式阻尼设计

转动该装置可调节光斑大小。

③ Multi-layer dry damping design

Rotating the device can change the sharpness of the spot.

多层干式阻尼设计

转动该装置可改变光斑锐度。



④ Optical-grade variable aperture design

Manual insertion and removal of the light cut sheet can freely change the shape of the spot.

光学级可变光阑设计

手动插拔切光片装置可随意改变光斑的形状。

GZ series framing optic lens features a compact design, with dry mechanical damping system. It achieves stable and reliable front and rear zoom, spot shaping and projection, ultra-high cost performance. Its optical and electric performance is the same as DQ Series.

GZ series framing optic lens belong to the 1.5 generation optical products which have the following characteristics compared with I generation.

1. High light efficiency (compared to the first generation of products, the light efficiency increased by 35%).
2. Delicate rotation feel (linear zoom, delicate feel).
3. Full series supports zhaga protocol installation

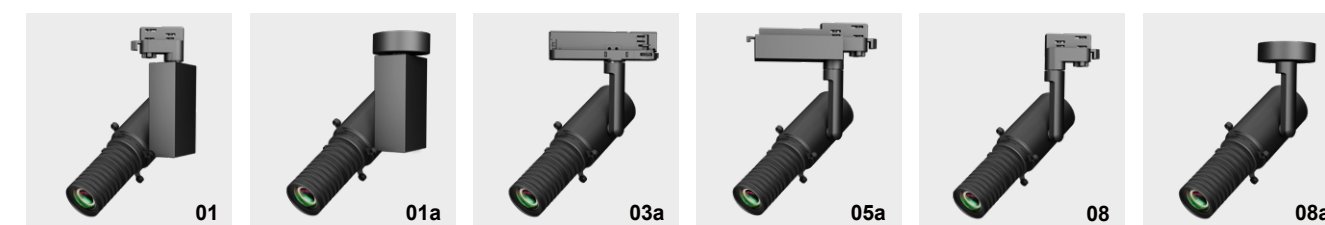
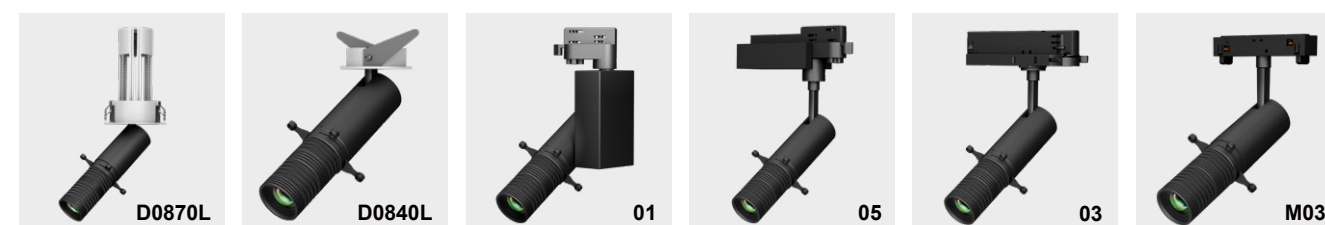
歌者系列切光镜头是紧凑型设计的光学镜头,自带干式机械阻尼系统,前后变焦切光投影稳定可靠,超高性价比,其光电性能与大乔系列切光镜头无异。

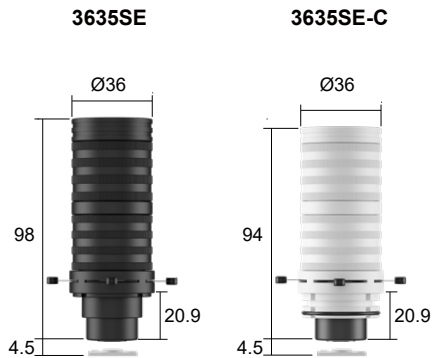
歌者系列切光镜头属于1.5代光学产品,跟1代比起来有以下特点。

- 1、高光效 (相比1代产品出光效率提升35%)。
- 2、细腻的手感 (线性变焦,手感细腻)。
- 3、全系列支持zhaga协议安装。



Whole lamp combination type 整灯组合类型





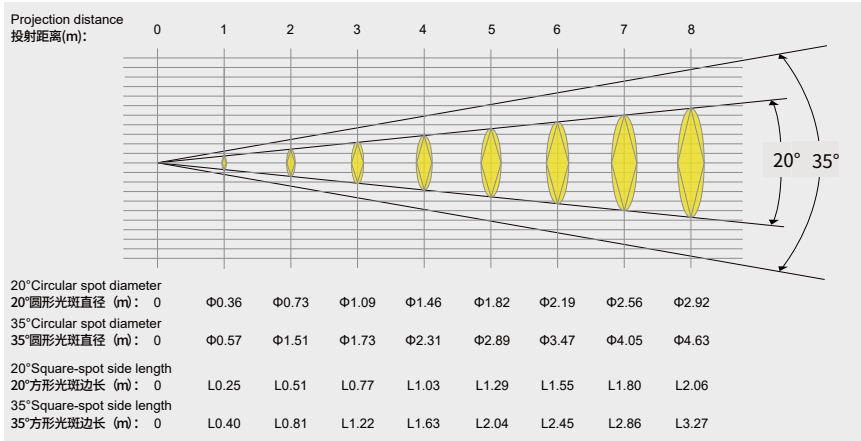
Matching luminous surface 适配光源发光面Ø<5mm

Official recommended light source 官方推荐光源

8-10W | CITIZEN 西铁城7A3 / TOYONIA 东洋T04

Specification parameter 规格参数

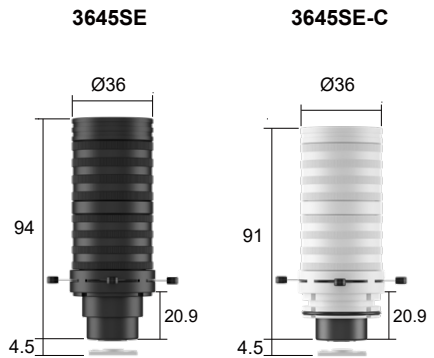
Lens model 镜头型号	3635SE / 3635SE-C
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	20°-35°
Uniformity 均匀度	80%
TV distortion TV畸变	≤1.8%
Optical lens 光学镜片	8pcs
Light output rate 出光率	43%
Lens weight 镜头重量	142.5g
Filter specification 滤镜规格	32mm
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.2/65%
Gobo size 投影片尺寸	10mm内径(Inside diameter) 19.7mm外径(Outside diameter)



Radiator connection 散热器连接方式

In order to meet the needs of different users, according to the difference of the structural parts connected with the radiator, the connection device of the lens can be divided into conventional (detachable, split connection device) and C (non-detachable, integrated connection device), increasing the selectivity at the same time, the matching of the radiator is more diverse, so that it is convenient to disassemble and accurately connected.

为满足不同用户的使用需求,研发部门针对散热器连接的结构件不同,镜头的连接装置可分为常规款(可拆卸,分体式连接装置)、C款(不可拆卸,一体式连接装置),增加选择性的同时,散热器的匹配性也更加多样,做到拆卸方便,精准连接。

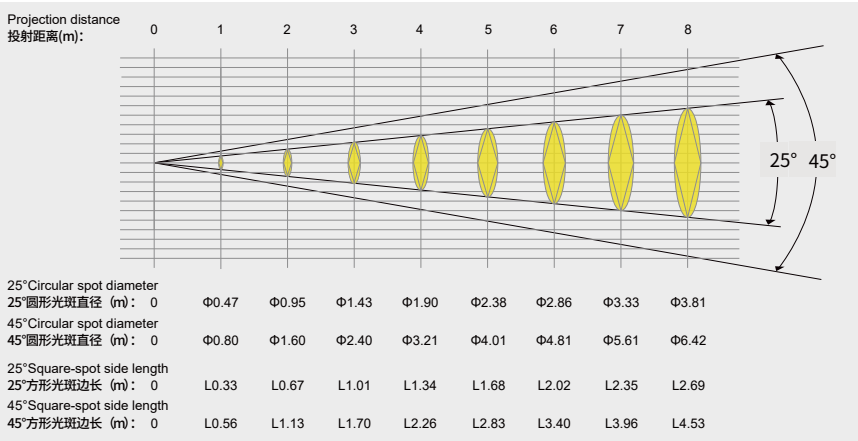


Matching luminous surface 适配光源发光面Ø<5mm

Official recommended light source 官方推荐光源

8-10W | CITIZEN 西铁城7A3 / TOYONIA 东洋T04

Specification parameter 规格参数



Lens model 镜头型号	3645SE / 3645SE-C
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	25°-45°
Uniformity 均匀度	80%
TV distortion TV畸变	≤3%
Optical lens 光学镜片	10pcs
Light output rate 出光率	43%
Lens weight 镜头重量	148.4g
Filter specification 滤镜规格	32mm
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.2/65%
Gobo size 投影片尺寸	10mm内径(Inside diameter) 19.7mm外径(Outside diameter)

Radiator connection 散热器连接方式



In order to meet the needs of different users, according to the difference of the structural parts connected with the radiator, the connection device of the lens can be divided into conventional (detachable, split connection device) and C (non-detachable, integrated connection device), increasing the selectivity at the same time, the matching of the radiator is more diverse, so that it is convenient to disassemble and accurately connected.

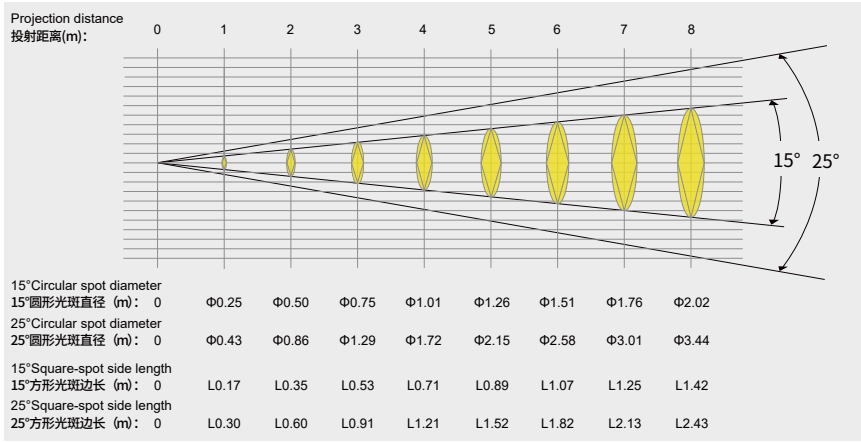
为满足不同用户的使用需求,研发部门针对散热器连接的结构件不同,镜头的连接装置可分为常规款(可拆卸,分体式连接装置)、C款(不可拆卸,一体式连接装置),增加选择性的同时,散热器的匹配性也更加多样,做到拆卸方便,精准连接。

歌者系列切光镜头——6025SE



Specification parameter 规格参数

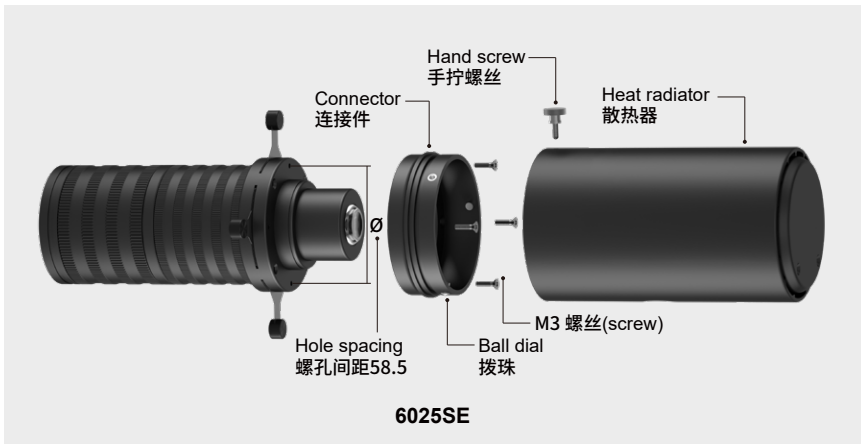
Lens model 镜头型号	6025SE
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	15°-25°
Uniformity 均匀度	80%
TV distortion TV畸变	≤1.5%
Optical lens 光学镜片	8pcs
Light output rate 出光率	50%
Lens weight 镜头重量	545g
Filter specification 滤镜规格	58mm
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.2/65%
Gobo size 投影片尺寸	17mm内径(Inside diameter) 31.2mm外径(Outside diameter)



Radiator connection 散热器连接方式

The connection device between the lens and the radiator is a split device (connector), the connector can be removed and replaced. The lens is combined with the radiator through connector+4 pcs M3 screws+ball dial+hand screws.This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the right.

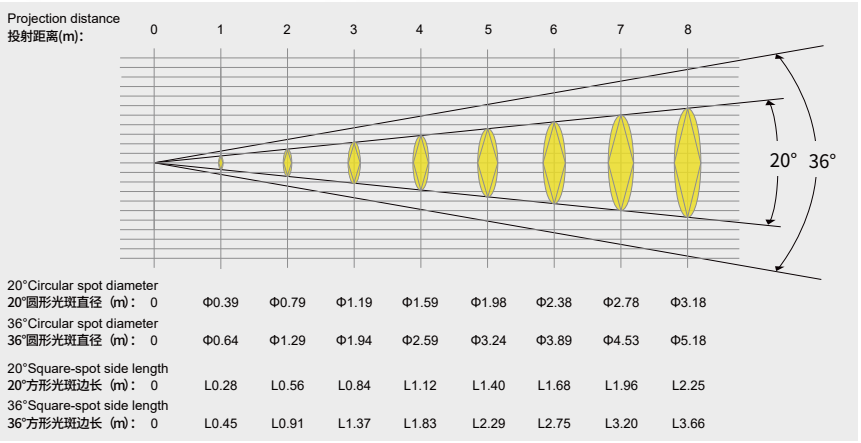
镜头与散热器之间的连接装置为分体式装置(连接件),连接件可拆卸替换;镜头是通过连接件+4个M3螺丝+拨珠+手拧螺丝与散热器相组合,此连接方式适配程度高,连接精准的同时拆卸也方便快捷,如右图所示。



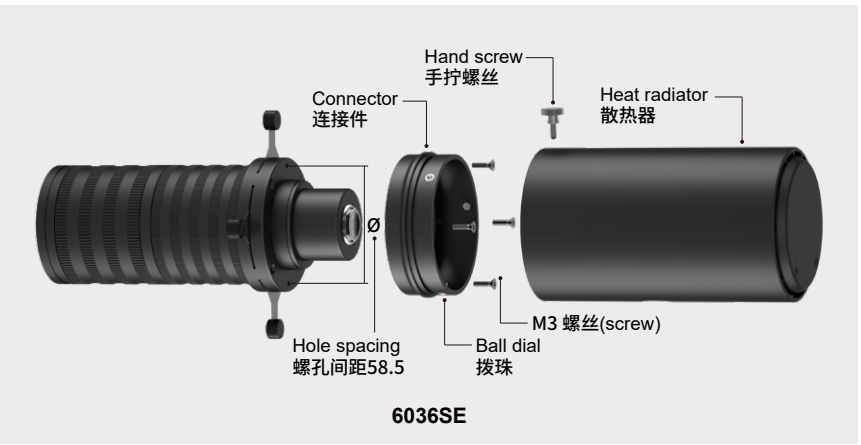
歌者系列切光镜头——6036SE



Specification parameter 规格参数



Radiator connection 散热器连接方式



Lens model 镜头型号	6036SE
Housing Colour 外壳颜色	Black 黑 / White 白
Beam angle range 变焦范围	20°-36°
Uniformity 均匀度	80%
TV distortion TV畸变	≤1.8%
Optical lens 光学镜片	10pcs
Light output rate 出光率	50%
Lens weight 镜头重量	610g
Filter specification 滤镜规格	58mm
Protocol Support 协议支持	Zhaga
Projection resolution/sharpness 投影分辨率/锐度	0.2/65%
Gobo size 投影片尺寸	17mm内径(Inside diameter) 31.2mm外径(Outside diameter)

The connection device between the lens and the radiator is a split device (connector). The lens is combined with the radiator through connector+4 pcs M3 screws+ball dial+hand screws.This connection method has a high degree of adaptability, can be arbitrarily matched to different specifications of the radiator, the connection is accurate and at the same time easy and quick to dismantle. As shown on the left.

镜头与散热器之间的连接装置为分体式装置(连接件),连接件可拆卸替换;镜头是通过连接件+4个M3螺丝+拨珠+手拧螺丝与散热器相组合,此连接方式适配程度高,连接精准的同时拆卸也方便快捷,如左图所示。