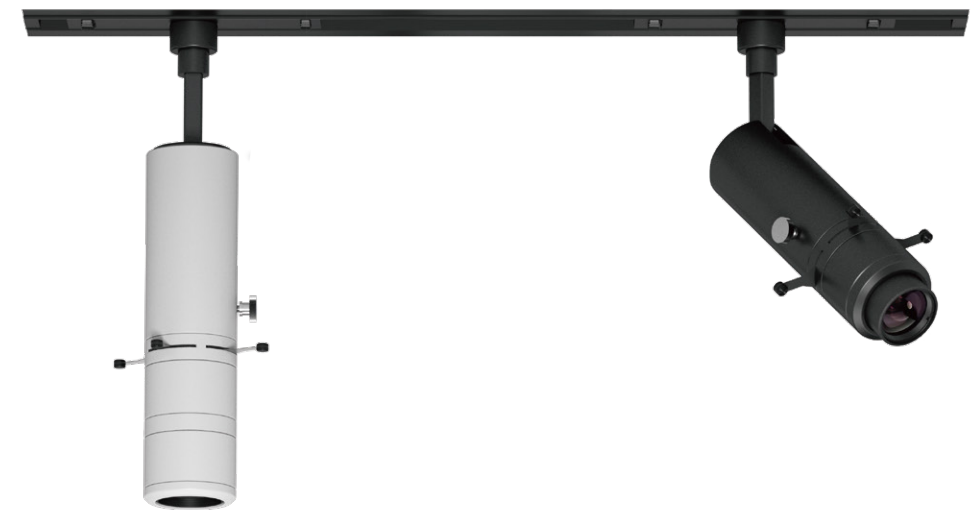




Come from BESUN, go for BEing SUN

**BESUN<sup>®</sup> LED LIMITED**



**BESUN<sup>®</sup> LED LIMITED**  
深圳市冰晟光电科技有限公司

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**2022**



## COMPANY PROFILE

BESUN LED LIMITED was founded in 2010 and is headquartered in Shenzhen. It is a high-tech company devoted to the R&D, production and sales of commercial lighting equipment for decades. With its excellent innovative concept and superior product performance, it has gradually developed into a leading brand in the field of LED-sourced commercial lighting.

The company is committed to providing lighting products for high-end commercial spaces, star-rated hotels, high-end commercial chain brands, high-end commercial real estates, and other lighting places. Products are mainly sold to Europe, America, Oceania, Southeast Asia, mainland China, Hong Kong, Macao, Taiwan, and other markets.

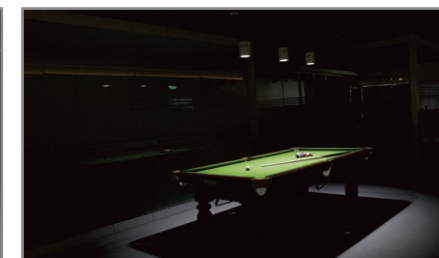
As one of the earliest manufacturers in China in the field of COB light and LED-sourced commercial lighting, BESUN has built professional R & D and design teams consisting of experienced experts and consultants. Independent research and development of products have always been a priority in the field of commercial lighting. In recent years, our research and development of a series of shapeable track lights (contour spotlights) have garnered more than a dozen core patents, including EU patents and U.S. patents. Moreover, our company also provides product customization and programming services, 24-hour 3D proofing confirmation, custom laser labels, color box packaging, and IES file testing amongst other services.

The company has obtained numerous ISO quality management system accreditations. Our products have all been accredited by CE, RoHS, ERP 2.0 amongst other EU certifications, UL, ETL, FCC American certifications, SAA Australia certification and also China CCC accreditations.

Quality is the vitality of an enterprise. Our products have all been thoroughly inspected at all manufacturing stages, including more than 12 hours of automatic power-off aging impact test. All products on sale have permanent aging test records. Some products have more than 10 years of permanent aging test records.

Our company is an authorized partner of Philips, Osram and Tridonic for many years. Moreover, we also boast our own brand light source cooperative factory and cold-forged aluminum radiator cooperative factory. The above facilities are designed to provide customers with ultra-cost-effective products and services.

Come from BESUN, go for BEing SUN.

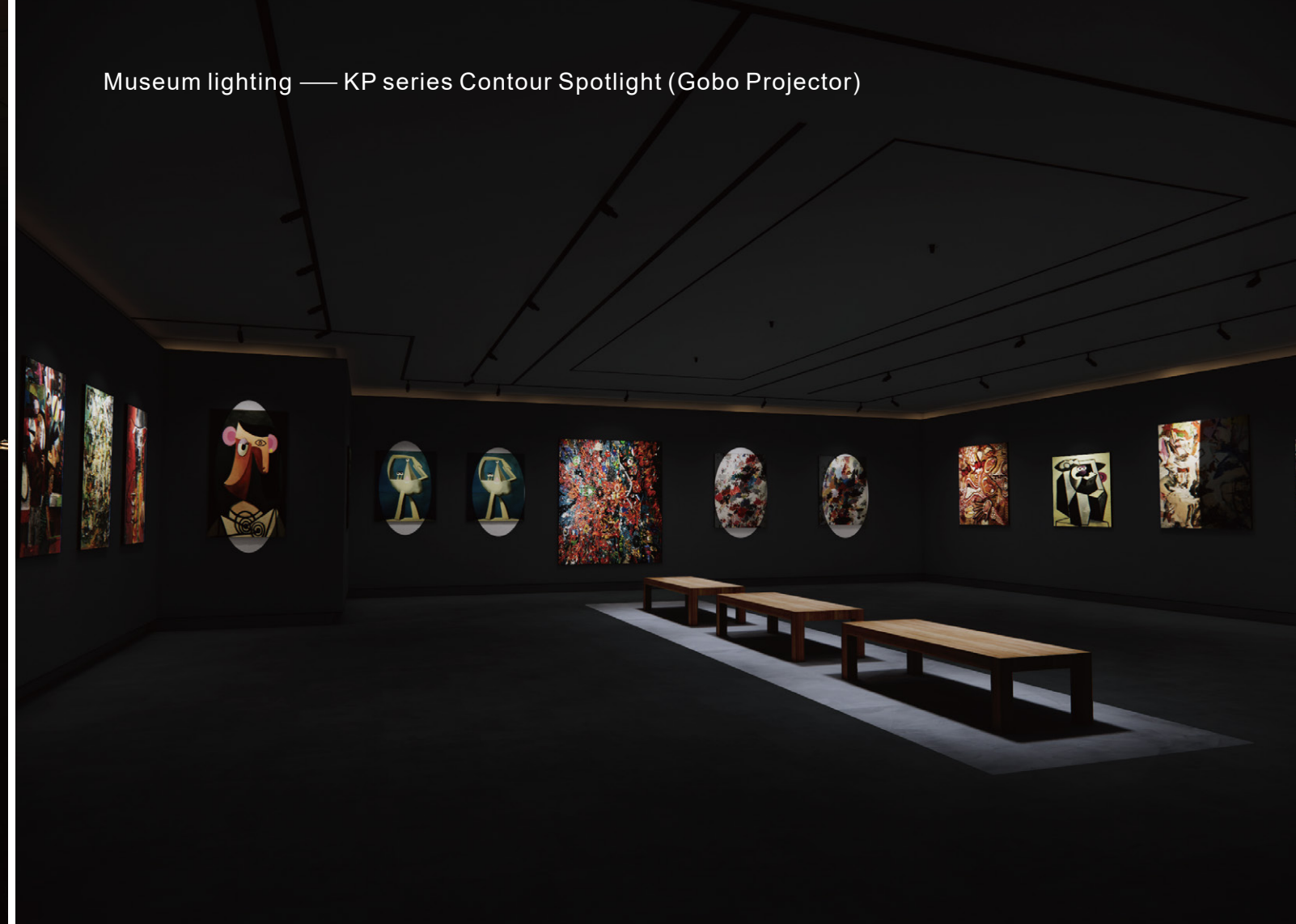




Hotel, restaurant lighting — KP series Contour Spotlight (Gobo Projector)



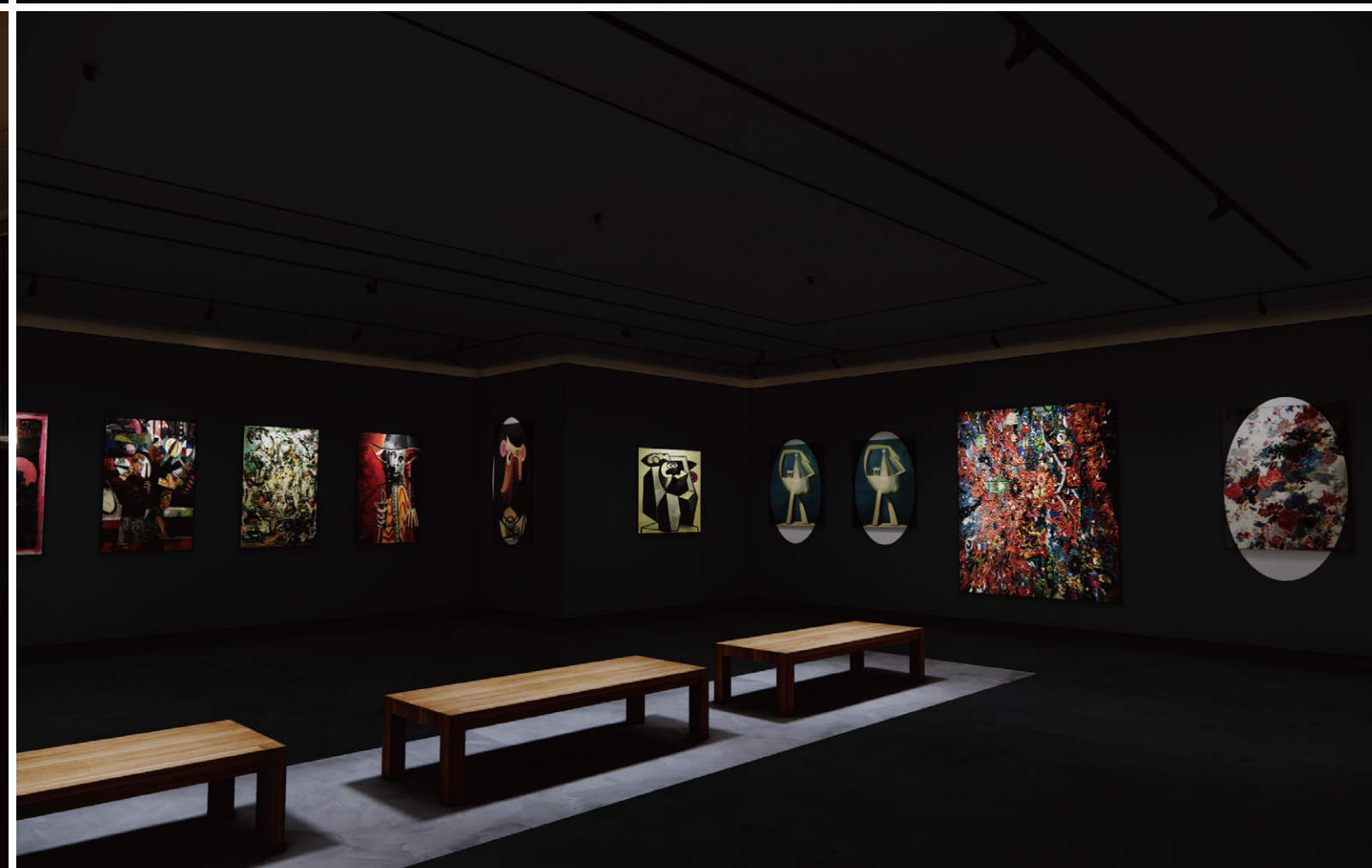
Museum lighting — KP series Contour Spotlight (Gobo Projector)



### KP series Contour Spotlight (Gobo Projector)

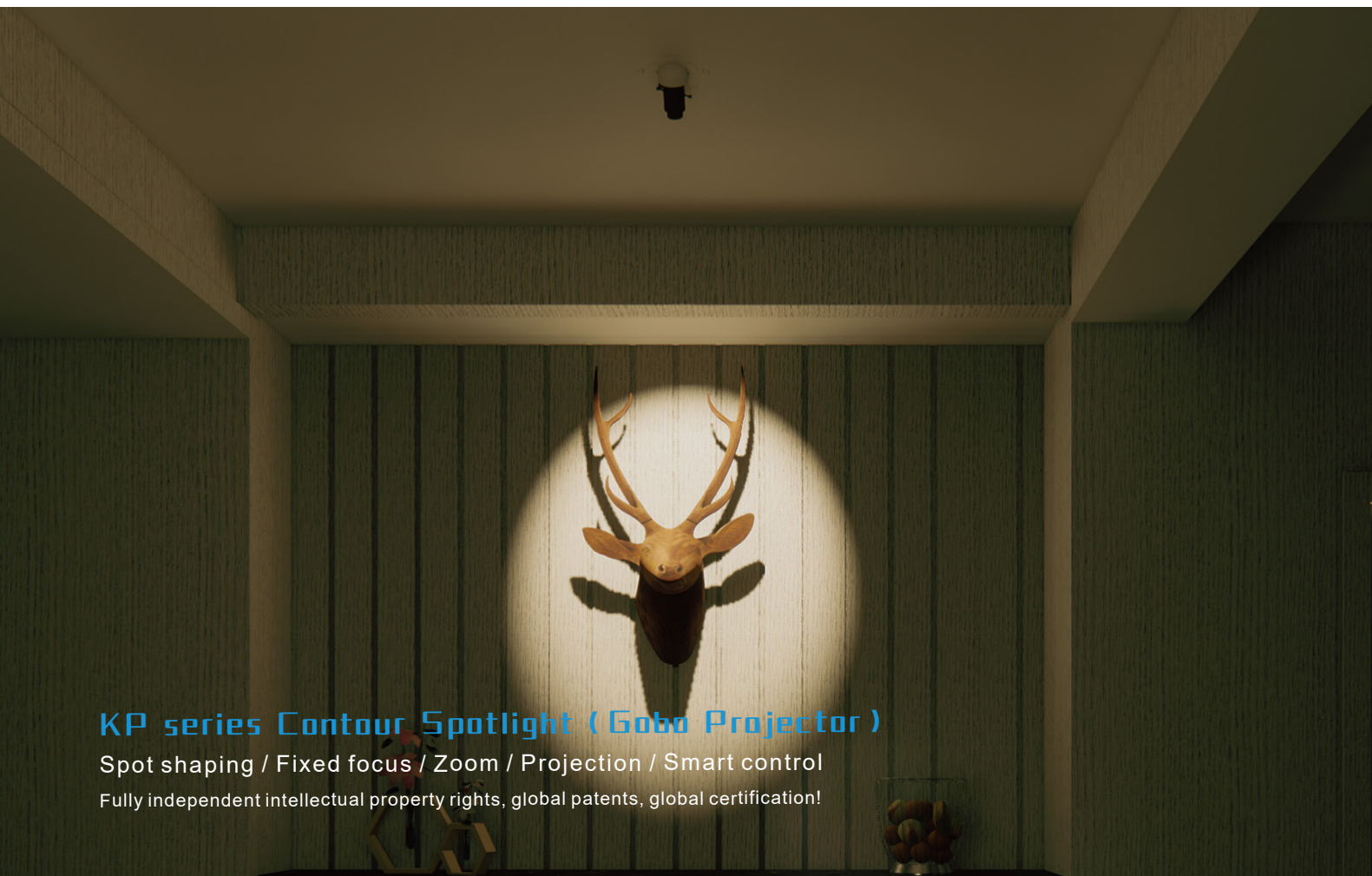
Spot shaping / Fixed focus / Zoom / Projection / Smart control

Fully independent intellectual property rights, global patents, global certification!



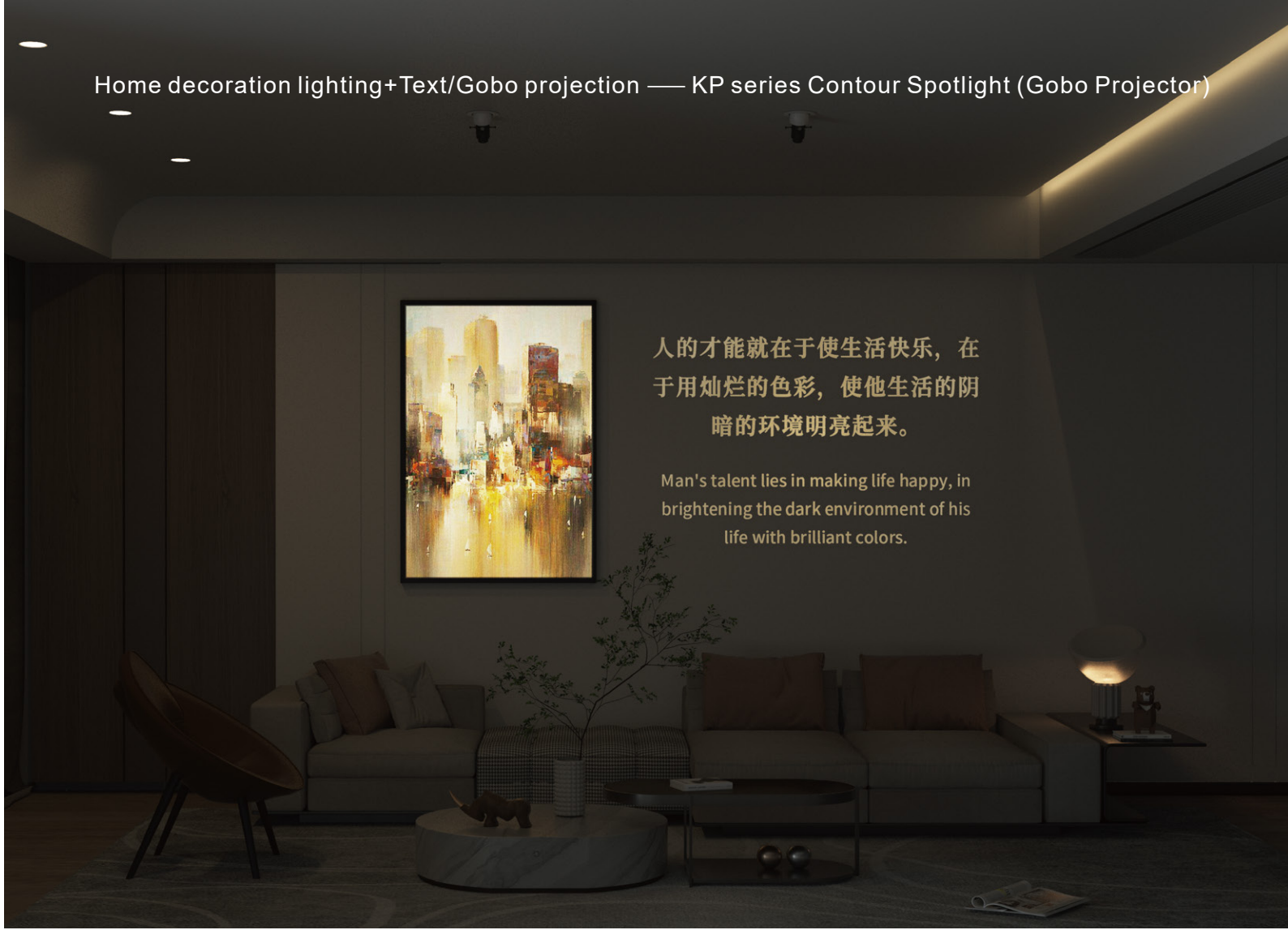


Home decoration lighting —— KP series Contour Spotlight (Gobo Projector)



**KP series Contour Spotlight ( Gobo Projector )**  
Spot shaping / Fixed focus / Zoom / Projection / Smart control  
Fully independent intellectual property rights, global patents, global certification!

Home decoration lighting+Text/Gobo projection —— KP series Contour Spotlight (Gobo Projector)





Ultra-high-definition projection—KP series Contour Spotlight (Gobo Projector)



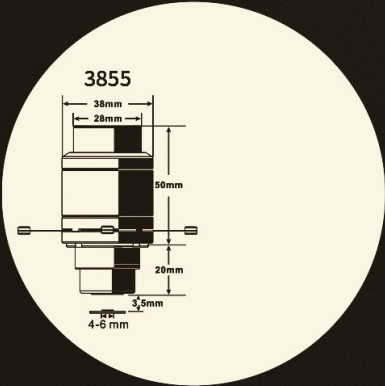
**KP series Contour Spotlight (Gobo Projector)**

Spot shaping / Fixed focus / Zoom / Projection / Smart control  
Fully independent intellectual property rights, global patents, global certification!



人的才能就在于使生活快乐，在于用灿烂的色彩，使他生活的阴暗的环境明亮起来。

Man's talent lies in making life happy, in brightening the dark environment of his life with brilliant colors.





KP series Contour Spotlight ( Gobo Projector )

Spot shaping / Fixed focus / Zoom / Projection / Smart control

Fully independent intellectual property rights, global patents, global certification!



KP series embedded contour gimbal light

KP series embedded contour gimbal light (G1075K) has equipped with our latest developed 55° fixed focus wide-angle optical lens and 20-35° zooming optical lens. Compatible with  $\phi$  75mm cutout gimbal radiator, small size and excellent performance.

- Ultra-high-definition projection.
- Millimeter-level precise Spot shaping, uniform illumination.
- Fixed focus / zoom lens can be switched arbitrarily (It truly integrates fixed-focus optics and zoom optics mutually. Maximize the optical properties of fixed focus and zoom lens).

Applications

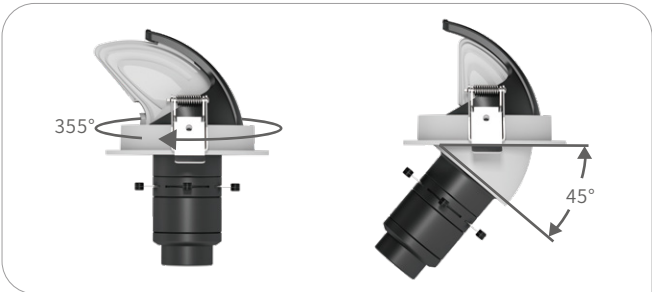
Museum, art gallery, home decoration, hotel, restaurant, machine vision lighting and other creative commercial lighting.

Dimming and CCT changing via Smart Control

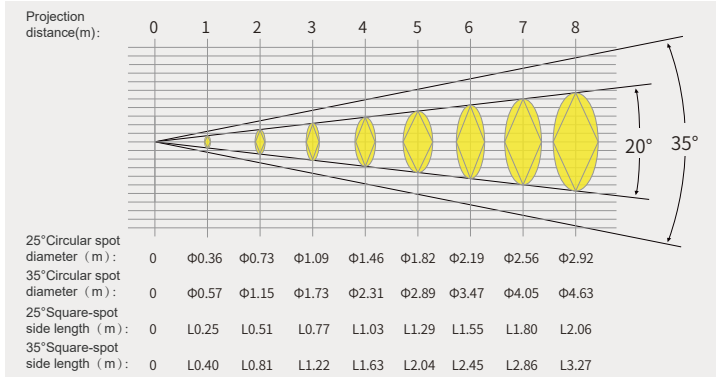
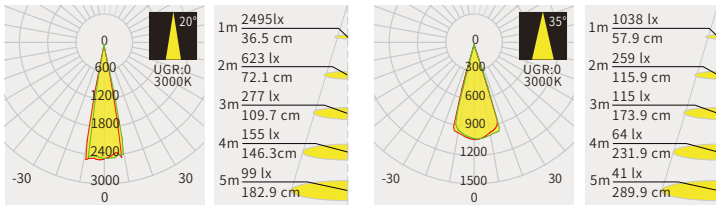
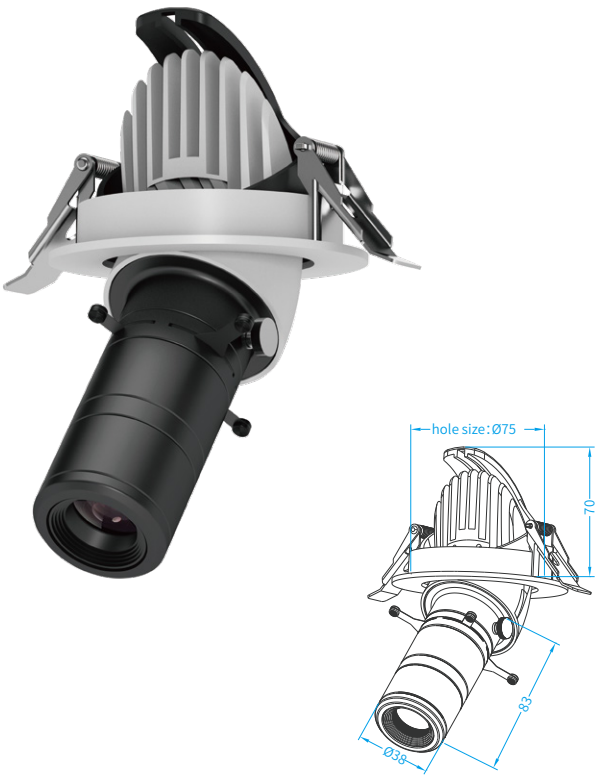
Single / tunnable white via TMALL / XIAOMI / DALI / 2.4G Bluetooth / TUYA Bluetooth / TUYA Zigbee.



KP series embedded contour gimbal light has the features of flexible rotation and precisely projection, supporting vertical 45° rotation and horizontal 355° rotation. (As shown below)

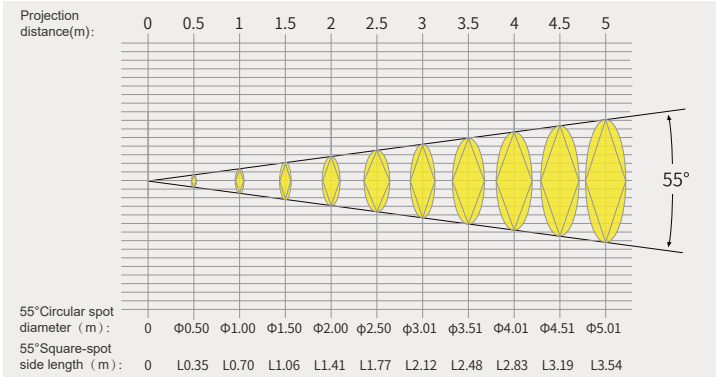
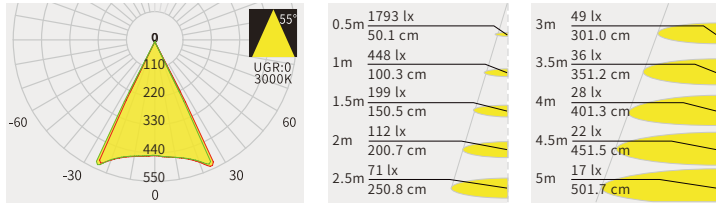
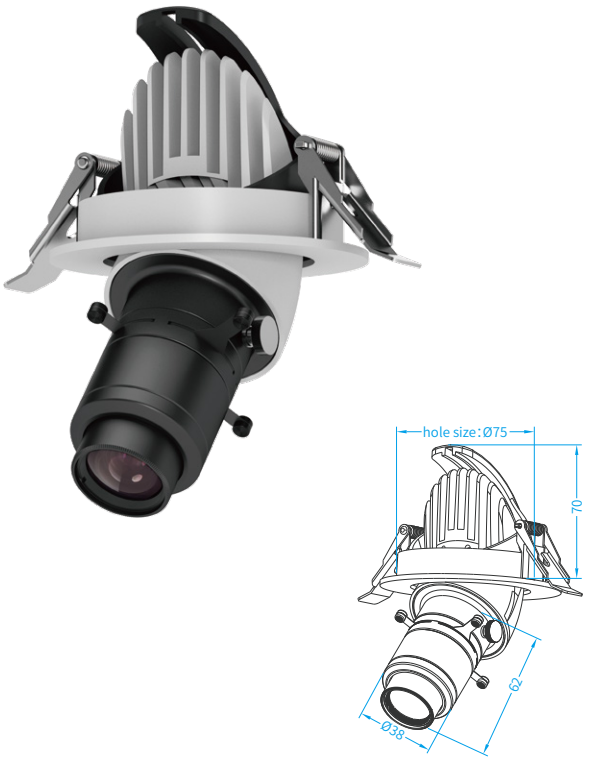


G1075K-3835



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
G1075K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	20°~35°	nonsupport	416.4g	Black/white

G1075K-3855



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
G1075K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	55°	nonsupport	404.2g	Black/white



KP series Contour Spotlight (Gobo Projector)

Spot shaping / Fixed focus / Zoom / Projection / Smart control

Fully independent intellectual property rights, global patents, global certification!



KP series magnetic contour spotlight

KP series Magnetic contour spotlight (M1003K) has equipped with our newly developed 55° fixed-focus wide-angle optical lens and 20-35° zoom optical lens, compatible with  $\phi$  38mm mini size radiator and magnetic track adapter. Ultra-small size, excellent performance.

- Ultra-high-definition projection.
- Millimeter-level precise Spot shaping, uniform illumination.
- Fixed focus / zoom lens can be switched arbitrarily (It truly integrates fixed-focus optics and zoom optics mutually. Maximize the optical properties of fixed focus and zoom lens).

Applications

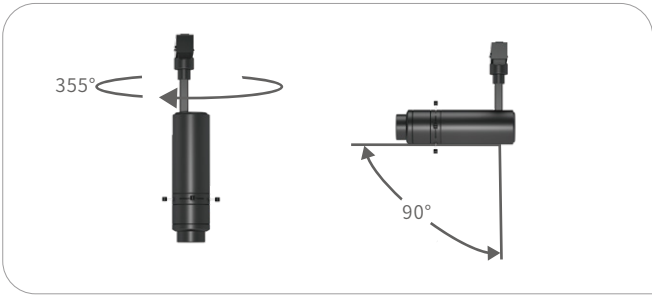
Museum, art gallery, home decoration, hotel, restaurant, machine vision lighting and other creative commercial lighting.

Dimming and CCT changing via Smart Control

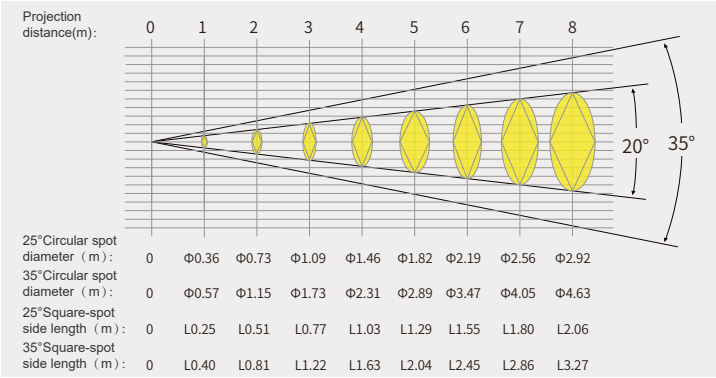
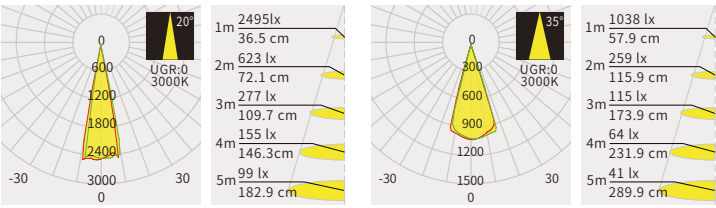
Single / tunnable white via MIJIA / TUYA Bluetooth / TMALL / TIGIDIGITAL / DALI / ORVIBO Zigbee / TUYA Zigbee / 1-10V dim, etc.



KP series magnetic contour spotlight has the features of flexible rotation and precisely projection, supporting vertical 90° rotation and horizontal 355° rotation. (As shown below)

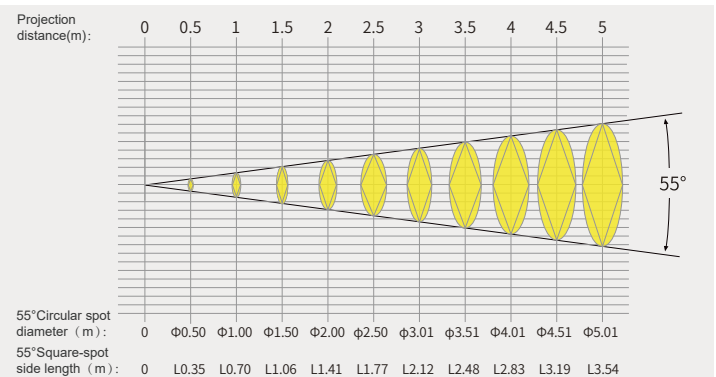
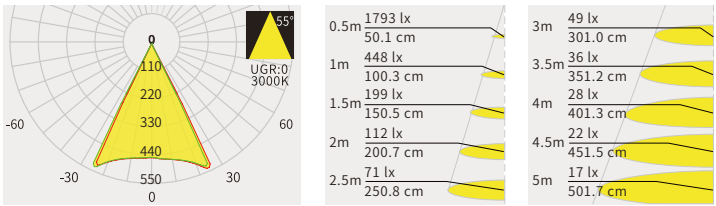


M1003K-3835



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
M1003K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	20°~35°	nonsupport	299.4g	Black/white

M1003K-3855



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
M1003K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	55°	nonsupport	287.2g	Black/white



KP series Contour Spotlight (Gobo Projector)

Spot shaping / Fixed focus / Zoom / Projection / Smart control

Fully independent intellectual property rights, global patents, global certification!



KP series shapeable track light

KP series shapeable track light (T1008K) has equipped with our latest developed fixed-focus wide-angle optical lens, and 20~35° zoom optical lens, compatible with  $\phi$  65mm radiator, family-style design, multi- functions, wide range of applications.

- Ultra-high-definition projection.
- Millimeter-level precise Spot shaping, uniform illumination.
- Fixed focus / zoom lens can be switched arbitrarily (It truly integrates fixed-focus optics and zoom optics mutually. Maximize the optical properties of fixed focus and zoom lens).

Applications

Museum, art gallery, home decoration, hotel, restaurant, machine vision lighting and other creative commercial lighting.

Dimming and CCT changing via Smart Control

Single / tunnable white via MIJIA / TMALL / TUYA Bluetooth / TIGIDIGITAL 2.4G / DALI / ORVIBO Zigbee / TUYA Zigbee / 1-10V dim, etc.

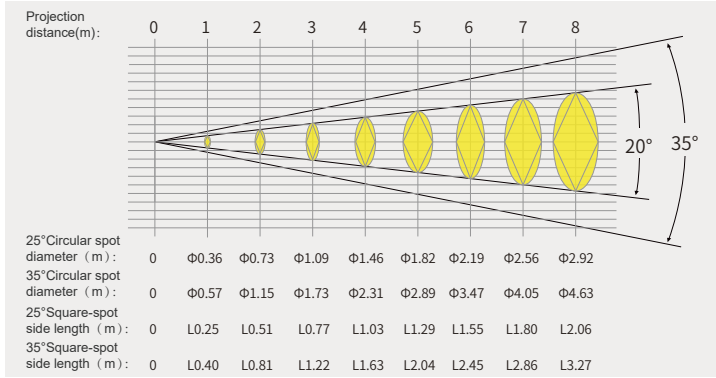
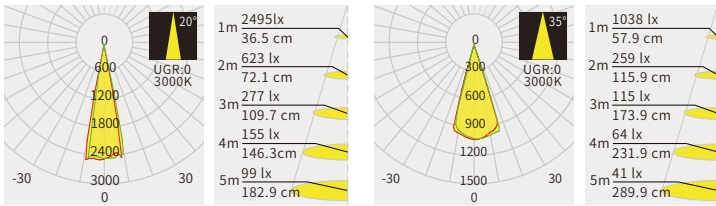
05

The whole lamp supports DIP CCT or knob dimming module (choose one of the two functions), which can be easily realize the functions of single lamp dimming / CCT changing, and spot shaping.



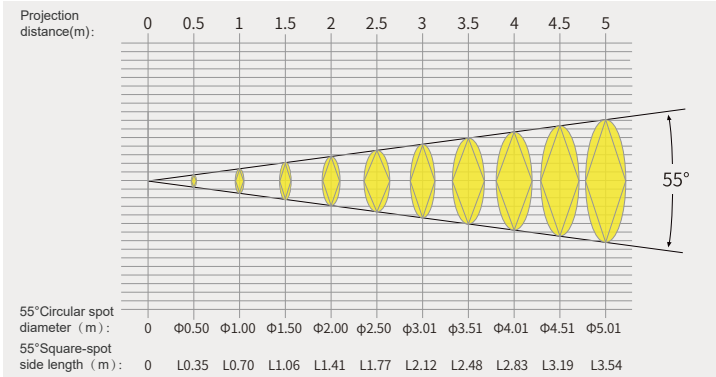
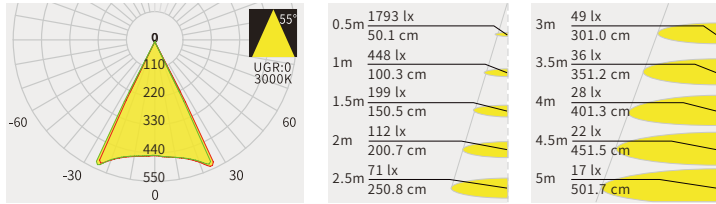
The KP series shapeable track light has the features of flexible rotation and precisely projection, supporting vertical 355° rotation and horizontal 355° rotation. (As shown below)

T1008K-3835



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
T1008K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	20°~35°	nonsupport	584.2g	Black/white

T1008K-3855



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
T1008K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	55°	nonsupport	572g	Black/white

06



Projection Functions

The operation and maintenance of GOBO projection is the same as of KP series embedded contour gimbal light, magnetic contour spotlight and shapeable track light. Take the shapeable track light (T1008K-3855) as an example ( as shown below )

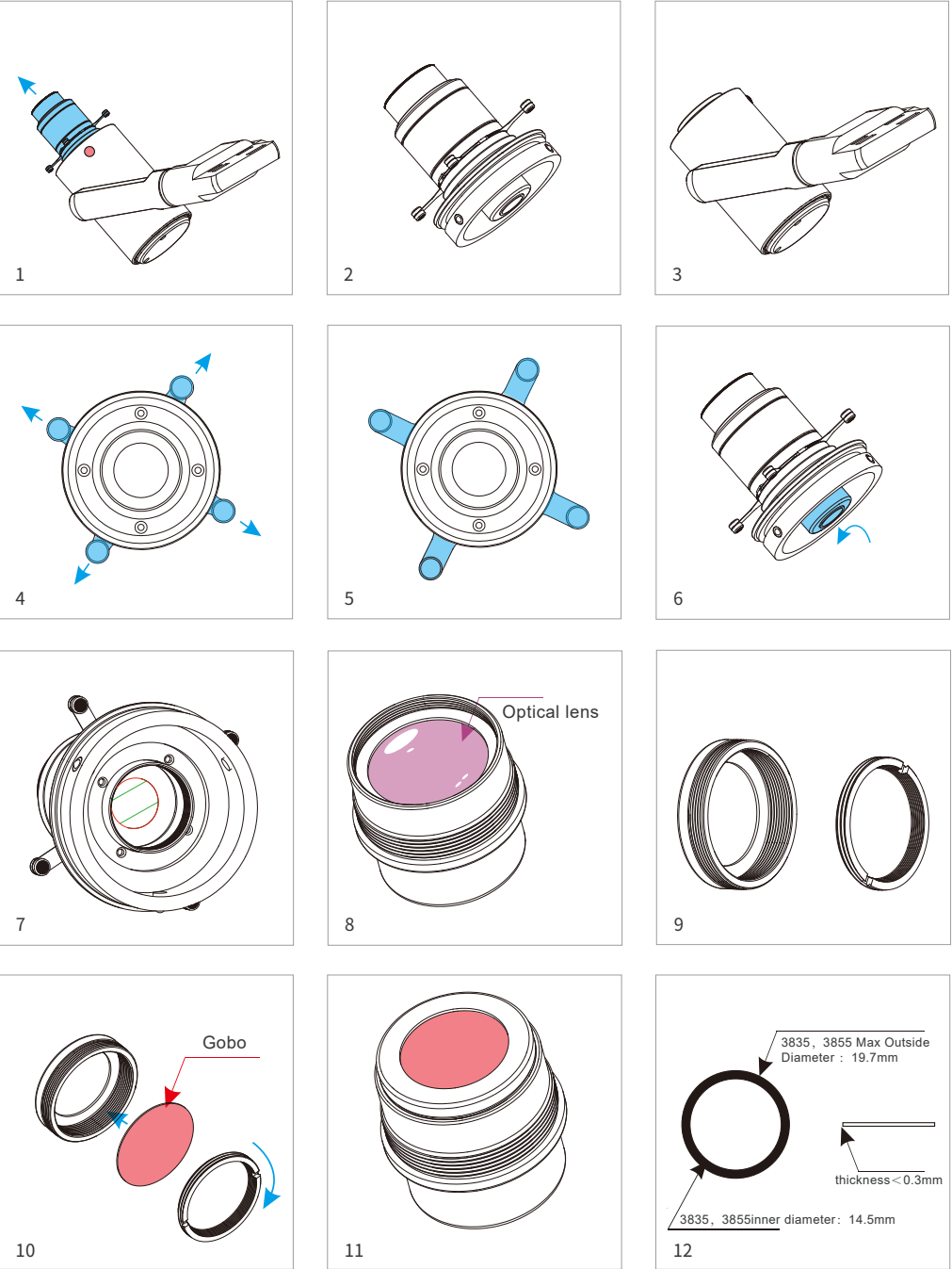
I. First loosen and pull out the hand screw (red part) shown in FIG. 1, and then pull out the main part of the lens (blue area) and separate it from the lamp body; Figure 2 shows the part of the optical lens after separation, and Figure 3 shows the part of the lamp body after separation.

II . Stretch the four diaphragm sheets on the optical lens of Figure 4 outward to the maximum extent, as shown in Figure 5.

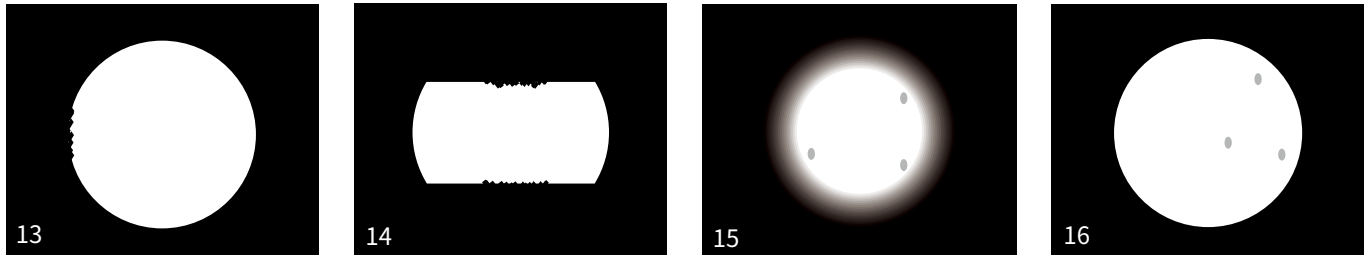
III. Unscrew the blue part of the optical components at the bottom of the lens in Figure 6, and separate it as shown in Figures 7 and 8.

IV . Find the gobo device delivered by the manufacturer (the red part in Figure 10), install the gobo device as shown in Figure 10, and then reinstall the optical lens as shown in Figure 11, and then reinstall the lens as shown in Figure 6, and then reinstall the lamp body as shown in Figure 1. The LOGO lamp assembly is complete.

IV. You can design and make a variety of image gobo. The specifications are shown in Figure 12.



Daily maintenance

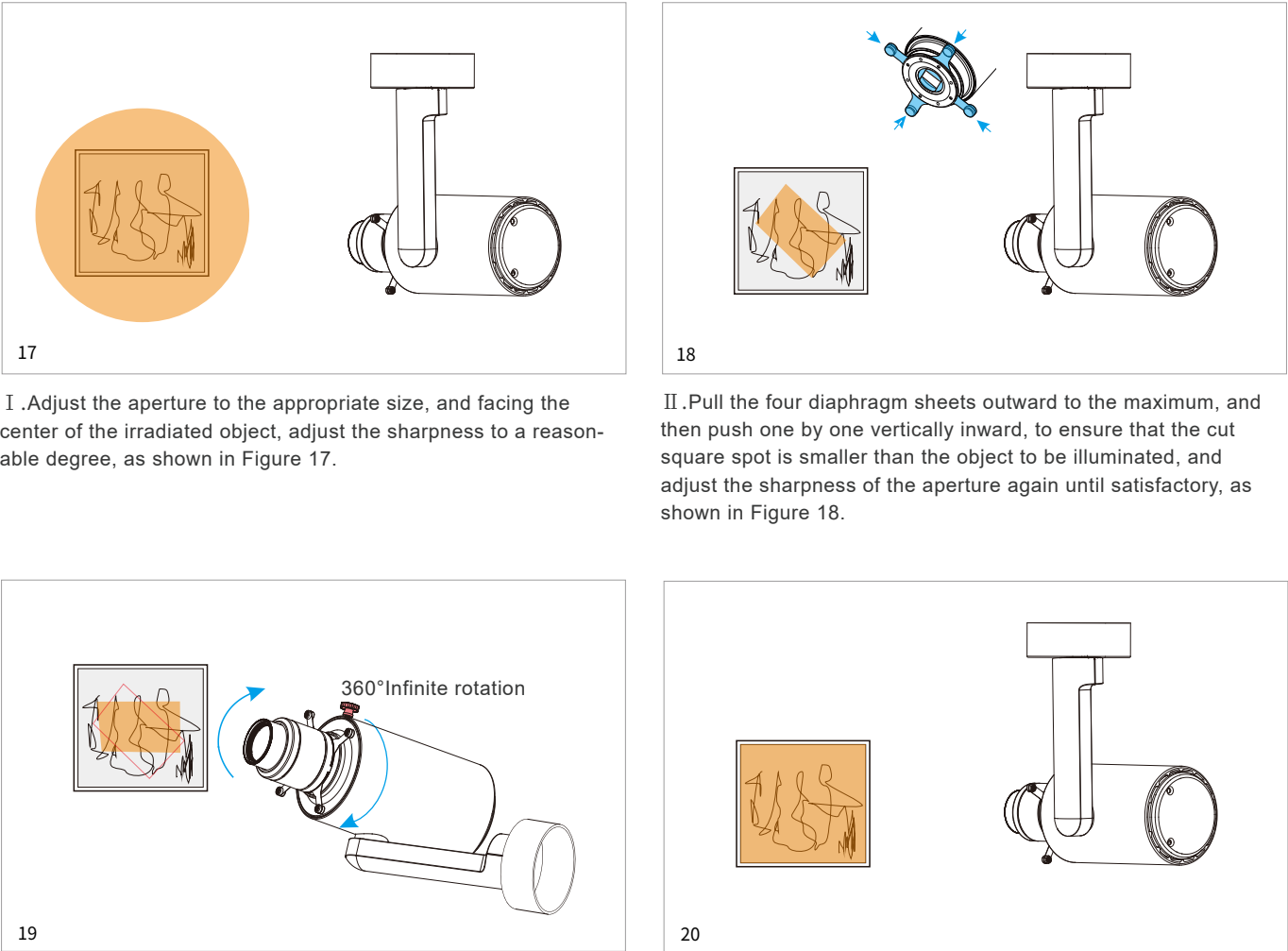


I .When the edge of the circular spot becomes rough or granular (Figure 13), please open the lens and wipe the red part in Figure 7 with a dust-free cloth or eyeglass cloth.

II .When the edge of the square spot becomes rough or granular (Figure 14), please open the lens and wipe the green edge in Figure 7 with a dust-free cloth or eyeglass cloth.

III. When small shadows or particles appear in the middle or edge of any spot (Figure 15, 16), open the lens and wipe the optical lens in Figure 8 with a dust-free cloth or eyeglass cloth.

Instruction Manual



I .Adjust the aperture to the appropriate size, and facing the center of the irradiated object, adjust the sharpness to a reasonable degree, as shown in Figure 17.

II .Pull the four diaphragm sheets outward to the maximum, and then push one by one vertically inward, to ensure that the cut square spot is smaller than the object to be illuminated, and adjust the sharpness of the aperture again until satisfactory, as shown in Figure 18.

III.If the shape of the spot does not match the object to be illuminated, first loosen the hand screw at the red mark, rotate the blue part of the lens, adjust the edge of the spot to be parallel to the edge of the object to be illuminated, and finally tighten the hand screw. As shown in Figure 19, the LOGO projection direction not matching can also be adjusted to the ideal direction using this method.

IV.Stretch the diaphragm sheet one by one outward until the spot size is substantially consistent with the object, as shown in Figure 20. If you are not satisfied with the effect, it is recommended to repeat the operation according to the above steps to bring up the spot effect you are happy with.

Important Notes

1. When replacing the projector, be sure to pull all four diaphragm sheets outward to the maximum extent and then load the projection device. Otherwise, it may damage the lens parts, affecting the spot shaping effect.
2. Do not remove the rest of the lens except for replacing the projection unit and routine lens maintenance. If the lens cannot be used normally due to manual disassembly, the company does not provide maintenance and warranty services.
3. Track-type shapeable track light is generally heavier than ordinary track lights. Please determine whether the installation conditions are allowed before installation.
4. The lens does not contain any repair accessories. Please do not disassemble the lens without permission. Unauthorized disassembly will not be repaired or returned.