

The MATGOBO550 Series LED Matrix Modules feature a groundbreaking condenser optics design, utilizing a patented multi-layer optical fly-eye lens matrix, which focuses the rays from the LED matrix into a smaller area in space, offering high luminous density and brightness. The LED matrix supports the usage of up to 61 high-power LED chips. Through a simple way of installation, the condenser optics of the MATGOBO550 Series can be quickly assembled with the corresponding LED matrix to form an LED matrix module that is high-power and equipped with dust protection. This module boasts ease of use, maintenance, and upgradability.

The MATGOBO550 Series LED Matrix Modules are ideal for a wide range of lighting applications, including LED beam lights, outdoor searchlights, LED moving head hybrid lights, follow spotlights, gobo projection lights, and other speciality lighting needs. Additionally, optical customizations can be made to fit infrared or ultraviolet light sources to meet related industrial applications.

MATGOBO550 Series, Condenser Lens Assembly



MATGOBO550-D24、550-D24RY MATGOBO550-D26、550-D26RY MATGOBO550H-D24、550H-D24RY MATGOBO550H-D26、550H-D26RY MATGOBO550P-D24、550P-D26 MATGOBO550PH-D24、550PH-D26

- LED required: the quantity is 55, outer packaging size ≤5050
- Light emission size: Φ68mm
 - Focal length(F): 60±2mm, refer to model selection list for details
 - Focal spot diameter (G): Φ10~28mm, depending on the LES of LED in use, refer to model selection list for details

Address: A11-04, Panyu Innovation and Technology Park, Shilou Town, Panyu District, Guangzhou, P.R.China Tel: +86 020 82161267 | Email: led3d@led3d.com | Website: https://www.led3d.com/en/

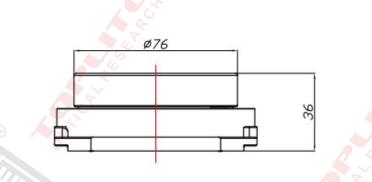


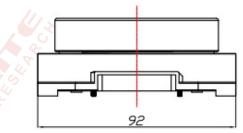
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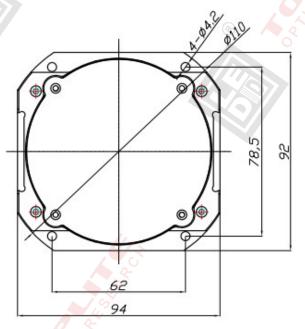
Beam angle of light pattern: 54~58 degrees

Mechanical dimension:

Model No.	Mechanical dimension	Model No.	Mechanical dimension		
MATGOBO550-D24		MATGOBO550-D26	94*92*36.6mm		
MATGOBO550-D24RY	94*92*36mm	MATGOBO550-D26RY			
MATGOBO550H-D24		MATGOBO550H-D26			
MATGOBO550H-D24RY		MATGOBO550H-D26RY			

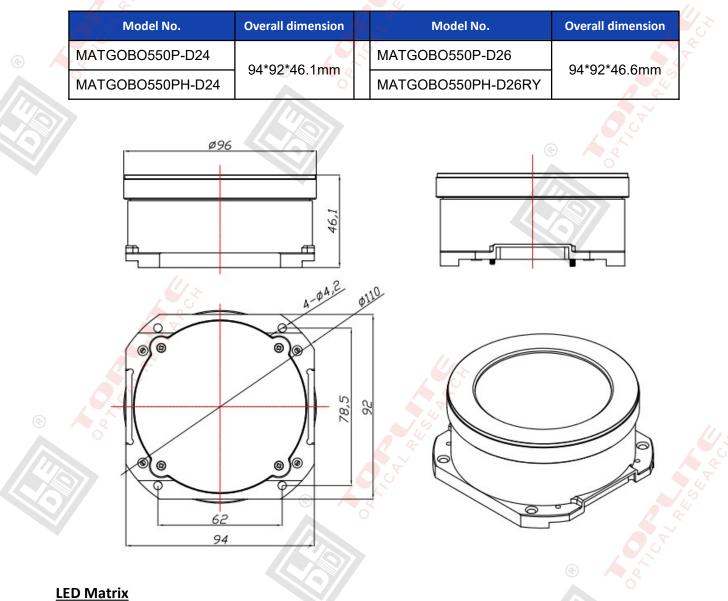






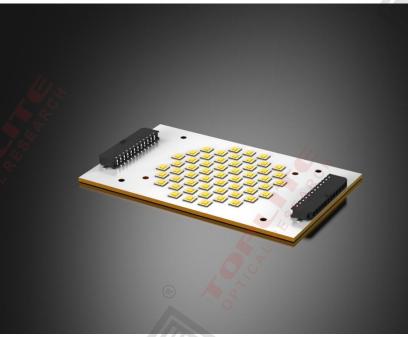
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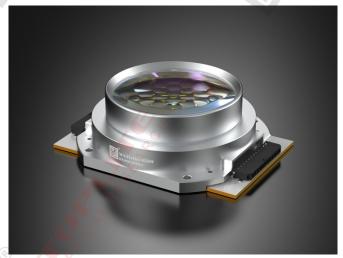
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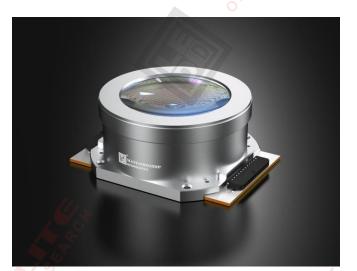
LED quantity: 55

- Outer packaging size: 5050, or smaller
- Total power: 2,200W, depending on the LED in use, single LED power x quantity
- LED matrix PCB layout: available

MATGOBO550 Series LED Matrix Module

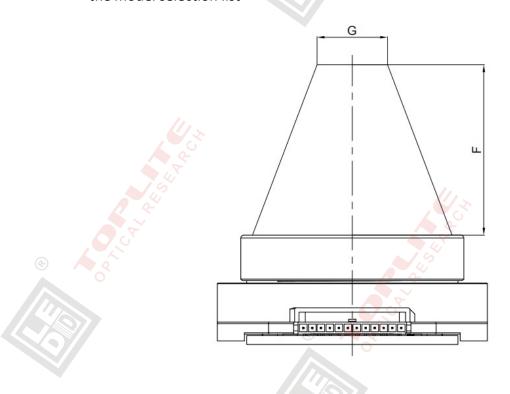


MATGOBO550-D24、550-D24RY MATGOBO550-D26、550-D26RY MATGOBO550H-D24、550H-D24RY MATGOBO550H-D26、550H-D26RY



MATGOBO550P-D24、550P-D26 MATGOBO550PH-D24、550PH-D26

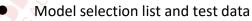
• Light pattern: different MATGOBO550 models have their own G and F values, please refer to the model selection list



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Model No.	LED	LED Qty	Drive current	Power	Luminous flux	G	F	Angle
MATGOBO550-D24	5050-20W	55	6A×5	1100W	85,000 lm	24mm	58±2mm	¢ 58°
MATGOB0550-D24RY								
MATGOB0550-D26						26mm	60±2mm	54°
MATGOB0550-D26RY								
MATGOB0550H-D24					90,000 lm	24mm	58±2mm	58°
MATGOBO550H-D24RY								
MATGOBO550H-D26						26mm	60±2mm	54°
MATGOB0550H-D26RY								
MATGOB0550P-D24					85,000 lm	26mm	58±2mm	58°
MATGOBO550P-D26						28mm	60±2mm	54°
MATGOB0550PH-D24					90,000 lm	26mm	58±2mm	58°
MATGOB0550PH-D26						28mm	60±2mm	54°

- Test dedicated collimation optical system: IMMBEAM224230
- Throw distance: 10 m
- Beam angle: 4°
- Illumination: 85,000 lx

Special Note:

The test data provided in the aforementioned lists are for reference only. Specific performance data may vary depending on factors such as the chosen LED specifications, the manufacturing process of the LED matrix board, the cooling system, and the overall assembly precision. Therefore, please refer to actual conditions for accurate performance figures.

Usage tips:

In the same optical system, if you aim to achieve a higher luminous flux output, you can try increasing the diameter size of G recommended in the above selection lists, for example, by adding 2mm. This will enhance the system's light output but may result in a slight reduction in uniformity.