

LED Color-mixing Matrix Module

MATGOBO1940

The MATGOBO1940 Series LED Color Mixing Matrix Module features an innovative light-condensing optical design. This design not only focuses the rays from the LED matrix into a smaller area in space but also achieves efficient color mixing, ensuring that the output light, after mixing different colors, is devoid of any color impurities. The LED matrix supports the usage of up to 19 high-power RGBW or other four-in-one LED chips.

Through simple installation, the light-condensing optical lens assembly of the MATGOBO1940 Series can be quickly assembled with the LED matrix to form a complete LED color mixing matrix module. This module boasts ease of use, maintenance, and upgradability.

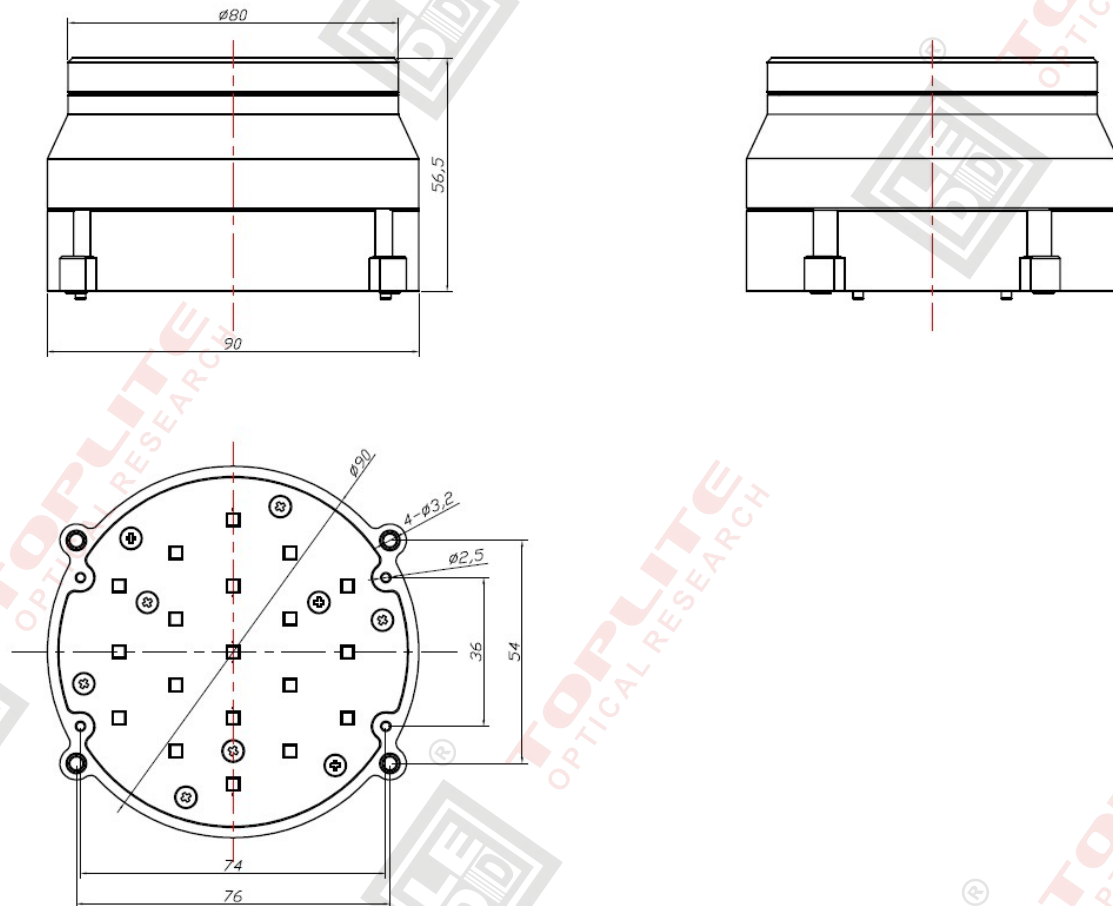
The MATGOBO1940 Series LED Color-mixing Matrix Module is ideal for a wide range of lighting applications, including high-power LED wash lights, long-throw spotlights, profile spotlights, imaging lights, gobo projection lights, LED moving head hybrid lights, and other speciality lighting needs.



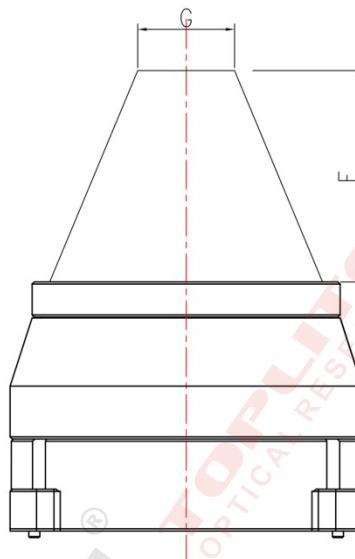
MATGOBO1940 Series LED Color-mixing Matrix Module

- LED required: quantity 19pcs, outer packaging size ≤ 5060 , RGBW or other 4-in-1,
- LED power: $\leq 50W$
- LED matrix board: Thermoelectric separation high thermal conductivity copper substrate, thickness $\leq 3.0mm$

- LED Module power range: $\leq 950W$, equal to the individual power multiplied by the quantity
- Light emission size: $\Phi 70mm$
- Outline dimension of light-condensing optical lens assembly: refer to the following diagram



- Light pattern: Please refer to the selection list for specific F and G values



- Model selection list and test parameter:

Model No.	LED	LED qty	Power (W)	Luminous flux(lm)	G(mm)	F(mm)	Beam angle(°)	G shape
MATGOBO1940F	RGBW 40W	19	760	22000	26	58±2	70°	Square
MATGOBO1940F-RY								
MATGOBO1940B								
MATGOBO1940B-RY								Octagon

Special Note:

The test data provided in the aforementioned selection list are for reference only. Specific performance data may vary depending on factors such as the chosen LED chip 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. This MATGOBO1940 Series LED Color-mixing Matrix Module can be paired with our TOP-GF series of glass Fresnel lenses to create an lighting optical path like spotlight used in film and television; they can also be combined with the IMM series to form a projection imaging optical path. For specific details, please contact us.