

MATBEAM1000

MATBEAM1000 is a converging lens module of LED matrix module, it employs multi-piece flyeye lens stacked converging design and is protected by a technical invention patent. The lens has the characteristics of ultra high luminous density, high converging efficiency and high luminance. MATBEAM1000 lens and the matching LED matrix light source form a high-power LED matrix module, which can be applied to the particular lighting fixtures such as LED moving head gobo/beam/wash/spot hybrid, gobo projector, follow spotlight, beam light, searchlight, etc. The separable design of lens and LED matrix makes the maintenance and upgrade of LED matrix module simpler, faster and more convenient. Dust-proof is provided, light shape parameters can be customized on demand.

MATBEAM1000 Lens Module

OPTIC DES

OPTIC DI



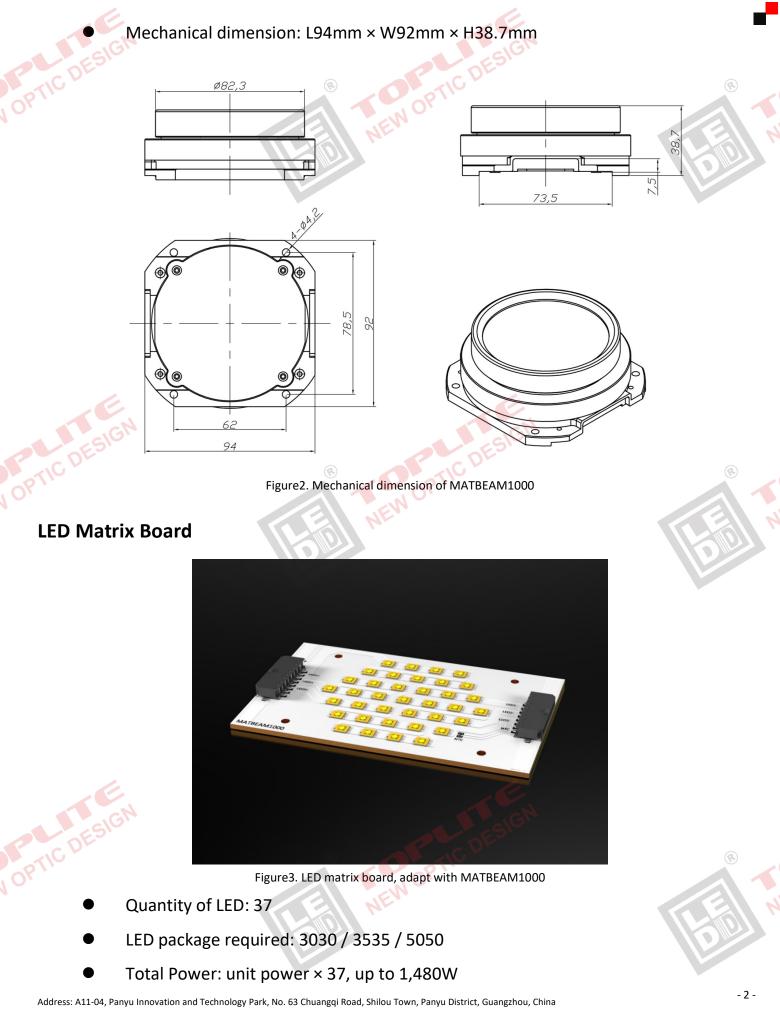
Figure1. MATBEAM1000

- Fly-eye lens unit: 37 pcs
- Lens aperture: Ø78mm
- Applicable power range: 360~1,480W
- **Model No. and parameters:**

Model No.	Focal length(F)	Focal spot(G)	Beam angle	
MATBEAM1000-D16	56mm	16.5mm	57°	
MATBEAM1000-D18	71mm	18mm	50°	1

The optical parameters, G and beam angle, are related to the LES of LED.







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- PCB layout drawing: available upon request
- LED matrix board sample: available upon request during the test phase
- Bulk order: please purchase the LED matrix board from qualified LED packaging manufacturers.

MATBEAM1000 LED Matrix Module



Figure4. MATBEAM1000 LED matrix module

• Photoelectric characteristics:

Table 1, Photoelectric characteristics

LED matrix board					
LED	package size 5050, maximum power 25W				
Quantity	37 6.0A × 3 800W				
Input					
Power					
Optics					
Model No.	Focal longth(E)	Focal point(G)	Beam angle of light		
Model No. Focal length(F)		Iris	pattern		
MATBEAM1000-D16	56mm	16.5mm	57°		
MATBEAM1000-D18	71mm	18mm	50°		



OPTICD

Optical lens module of LED matrix module

Test data:

Table 2, test data of beam light

Test data of illumination				
Luminous flux	65,000 lm			
	Model No.: MATBEAM1000-D16			
	Collimating lens set: IMMBEAM224230			
illumination	System light emitting aperture: Ø224			
	Throw distance: 10m			
	Result: 90,000lx, beam angle 3.6°			
	Model No.: MATBEAM1000-D18			
	Collimating optics: <u>D-BEAM320 reflector</u>			
illumination (2)	System light emitting aperture: Ø320			
	Throw distance: 10m			
EN	Result: 125,000lx, beam angle 2.9°			

Note:

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The test parameters in the above table are for reference only.

The specific data is related to the selected LED, packaging process, SMD position accuracy, heat dissipation and assembly accuracy and other factors, please refer to the actual situation.

• Light pattern:

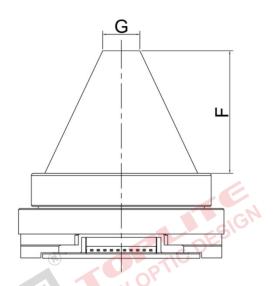


Figure6. Light pattern of MATBEAM1000 LED matrix module

Special note: Under the current lens assembly models, the G value and its spot shape are related to the light emitting surface and shape of LED.