

LED[®] TOPLITE
NEW OPTIC DESIGN



2024
Optics Brochure

Company profile

Founded in 2003, Toplite optics has provided professional optical design solutions for various LED solid-state light source-based lighting needs since its inception. In 2005, a design team named LED3D was established in order to more focus on serving the optical needs of green light source lighting.

At present, the optical design of LED3D has covered a variety of professional fields, e.g. optical imaging, color mixing, high luminous density convergence, ultra-short focus and matrix optics. Based on these excellent designs, Toplite has developed corresponding optical products which have been applied to the lighting fields like stage and entertainment, film and television shooting, museum, exhibition, pattern projection, outdoor special, indoor and commercial, ship, and aircraft. With rapid development, Toplite actively explores new application fields and develops optical lenses and module which are suitable for VR/AR and other industries.

Toplite provides customized optical design solutions for industry needs through comprehensive design software and skilled integration capabilities, and has a professional team to efficiently manage the project process and supply chain to ensure that customer needs are met.

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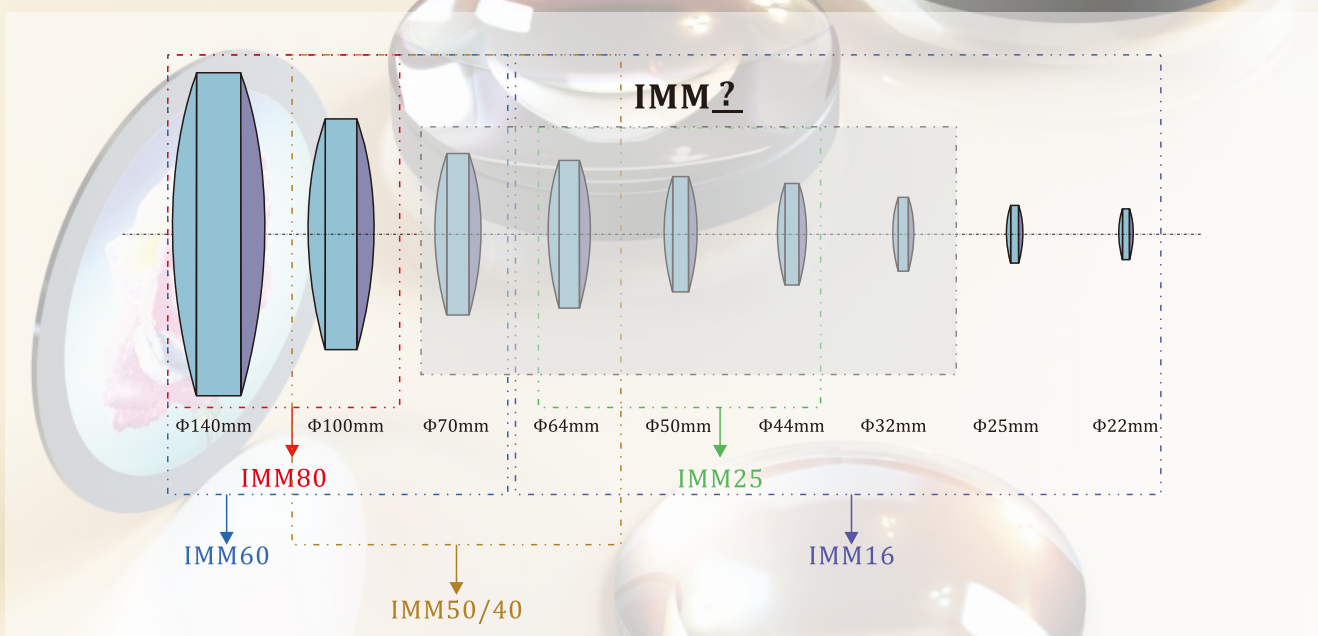
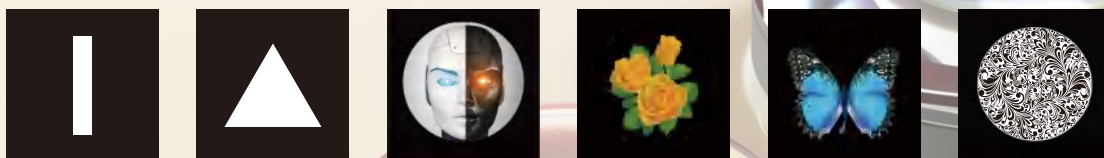
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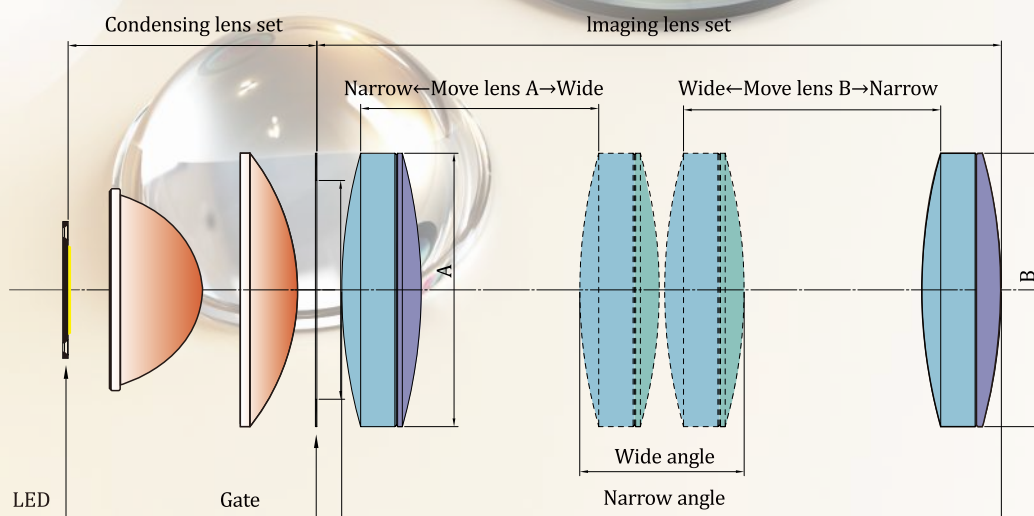
IMM80/60/50/40/25/16

High definition imaging lens set

- Achromatic cemented lens with a variety of diameters to choose from
- Free combination of 2/3/4 lenses, a variety of beam angles, constant angle and linear zoom
- AR coatings, high resolution and low imaging distortion
- Super-clear image projection, and highly uniform light spot
- Suitable for use in high-power LED gobo projector, profile spotlight, follow spotlight, etc



Light path diagram



Model No.	IMM80	IMM60	IMM50
LED	LES ≤ Φ28	LES ≤ Φ22	LES ≤ Φ11
Condensing lens	IMMDX10073 lens set, Φ73 and Φ100 IMMDX100X273 lens set, Φ73, Φ100 and Φ100	IMMDX5070X2 lens set, Φ50, Φ70 and Φ70, for LES ≤ Φ15; IMMDX6672 lens set, Φ66 and Φ72, for LES ≤ Φ22	IMMDX447072 lens set, Φ44, Φ70 and Φ72
Gate	≤ Φ80	≤ Φ60	≤ Φ50
Imaging lens	Φ100 and Φ140	Φ70, Φ100 and Φ140	Φ64, Φ70 and Φ100
Beam angle (constant)	14, 19, 26, 36, 40, 50, 55	09, 10, 14, 15, 19, 20, 24, 25, 26, 30, 36, 40, 45, 50, 55, 60	10, 15, 19, 20, 24, 25, 26, 30, 36, 40, 45, 50
Beam angle (zoom)	11~32, 15~30, 16~30, 17~36, 22~40, 28~55, 30~55, 30~60	09~23, 12~26, 12~27, 12~33, 14~41, 16~30, 16~49, 17~34, 17~37, 18~38, 19~46, 20~49, 22~45, 22~53, 23~57, 24~43, 30~60	10~22, 10~27, 12~34, 14~25, 14~28, 14~30, 14~31, 14~41, 15~31, 16~31, 16~38, 16~41, 16~43, 19~44, 19~47, 20~34, 20~36, 23~48, 25~49, 25~50
Model selection (for example)	IMM80-F26, a constant angle of 26 degrees		
	IMM80-Z1530, zoom range from 15 to 30 degrees		

Model No.	IMM40	IMM25	IMM16
LED	LES ≤ Φ8.5	LES ≤ Φ11	LES ≤ Φ8
Condensing lens	IMMDX4450X2 lens set, Φ44, Φ50 and Φ50	IMMDX253535 lens set, Φ25, Φ35 and Φ35; IMMDX303535 lens set, Φ30, Φ35 and Φ35	IMMDX202525 lens set, Φ20, Φ25 and Φ25; IMMDX25X3 lens set, Φ25, Φ25 and Φ25
Gate	≤ Φ40	≤ Φ25	≤ Φ50
Imaging lens	Φ64, Φ70 and Φ100	Φ44, Φ50 and Φ64	Φ22, Φ25, Φ32, Φ44, Φ50 and Φ64
Beam angle (constant)	08, 10, 15, 19, 20, 24, 25, 26, 30, 36, 40	08, 10, 15, 19, 20, 24, 25, 26, 30, 36, 40, 45	05, 08, 10, 14, 15, 19, 20, 24, 25, 26, 27, 28, 30, 36, 38, 40, 44, 45, 50, 55
Beam angle (zoom)	08~18, 08~22, 09~27, 11~20, 11~24, 11~33, 12~23, 12~24, 13~25, 13~31, 13~33, 13~34, 15~36, 15~38, 16~27, 16~29, 18~38, 20~39, 20~40	08~15, 08~17, 09~20, 09~22, 09~23, 12~25, 13~27, 16~28, 18~30, 24~40, 27~42,	10~20, 13~25, 13~27, 14~28, 15~30, 15~32, 21~42, 22~36, 22~44, 22~45, 23~38, 28~50, 30~50, 36~50
Model selection (for example)	IMM25-F26, a constant angle of 26 degrees		
	IMM25-Z1830, zoom range from 18 to 30 degrees		

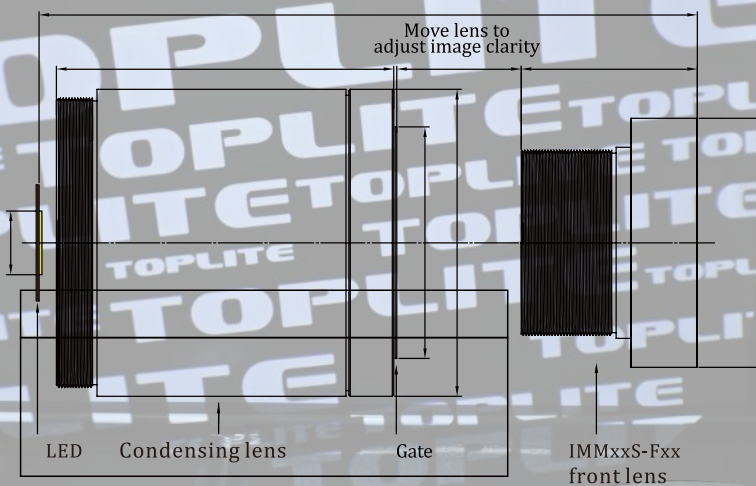
Unit of diameter/length/size: mm
Unit of angle: degree

IMM80S/60S/35S/30S/18S

Wide beam angle imaging projection lens

- Wide and constant beam angle
- Very low distortion, no higher than 0.8%
- High resolution of the lens, high spot uniformity, up to 90%
- High definition image projection, high imaging quality and short light path
- Used in LED gobo projector, LED profile spotlight, etc

Light path diagram



Model No.	IMM80S-F60	IMM60S-F42	IMM35S-F50	IMM30S-F55	IMM18S-F55
LED	LES ≤ Φ22	LES ≤ Φ15	LES ≤ Φ10	LES ≤ Φ10	LES ≤ Φ8.5
Condensing lens	IMMDX7080100X2 lens set, Φ70, Φ80, Φ100 and Φ100	IMMDX6970X3 lens set, Φ69, Φ70, Φ70 and Φ70	For LES ≤ Φ5.5: IMMDX3544X3 lens set, Φ35, Φ44, Φ44 and Φ44, For LES ≤ Φ10: IMMDX354450X2 lens set, Φ35, Φ44, Φ50 and Φ50,	IMMDX25X244X2 lens set, Φ25, Φ25, Φ44 and Φ44	IMMDX25X4 lens set, Φ25, Φ25, Φ25 and Φ25; IMMDX25X330 lens set, Φ25, Φ25, Φ25 and Φ30;
Gate	≤ Φ80	≤ Φ60	≤ Φ35	≤ Φ30	≤ Φ18
Beam angle (constant)	60	42	50	55	55
Work mode	Move the front lens to focus to get clear image or spot				
Light path length	< 230	< 175	< 116	< 100	< 62
	from LED to front lens				

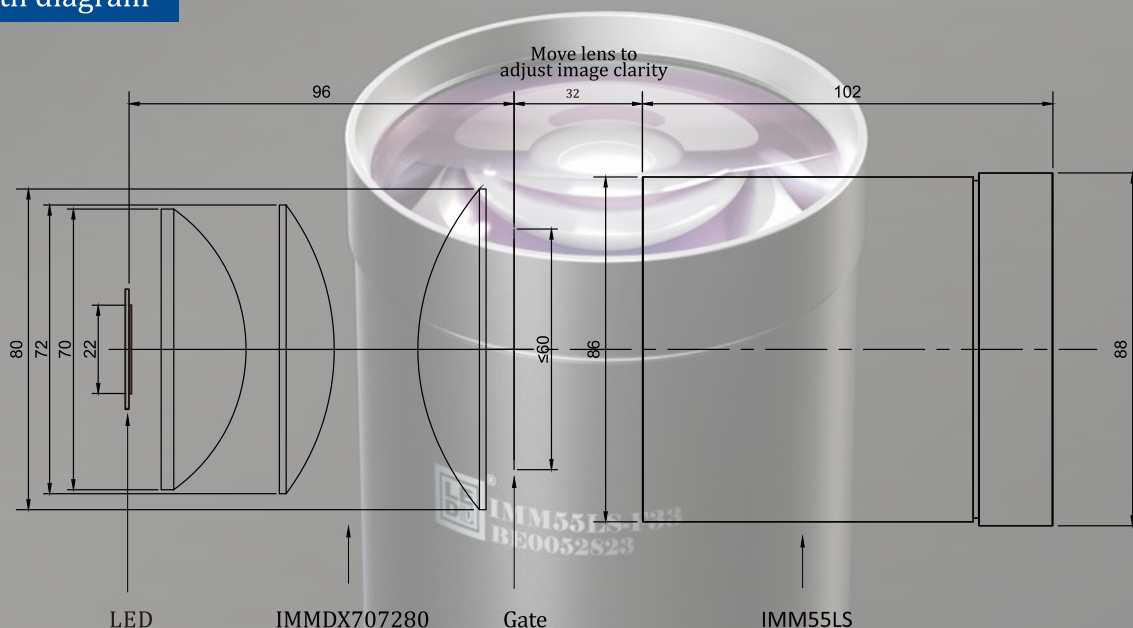
Unit of diameter/length/size: mm
Unit of angle: degree

IMM55LS

Constant beam angle imaging projection lens

- Constant beam angle and very low distortion
- High resolution of the lens, high spot uniformity
- High definition image projection, high imaging quality and short light path
- LED light source with a large LES can be used in the light path
- Used in LED gobo projector, LED profile spotlight, etc

Light path diagram

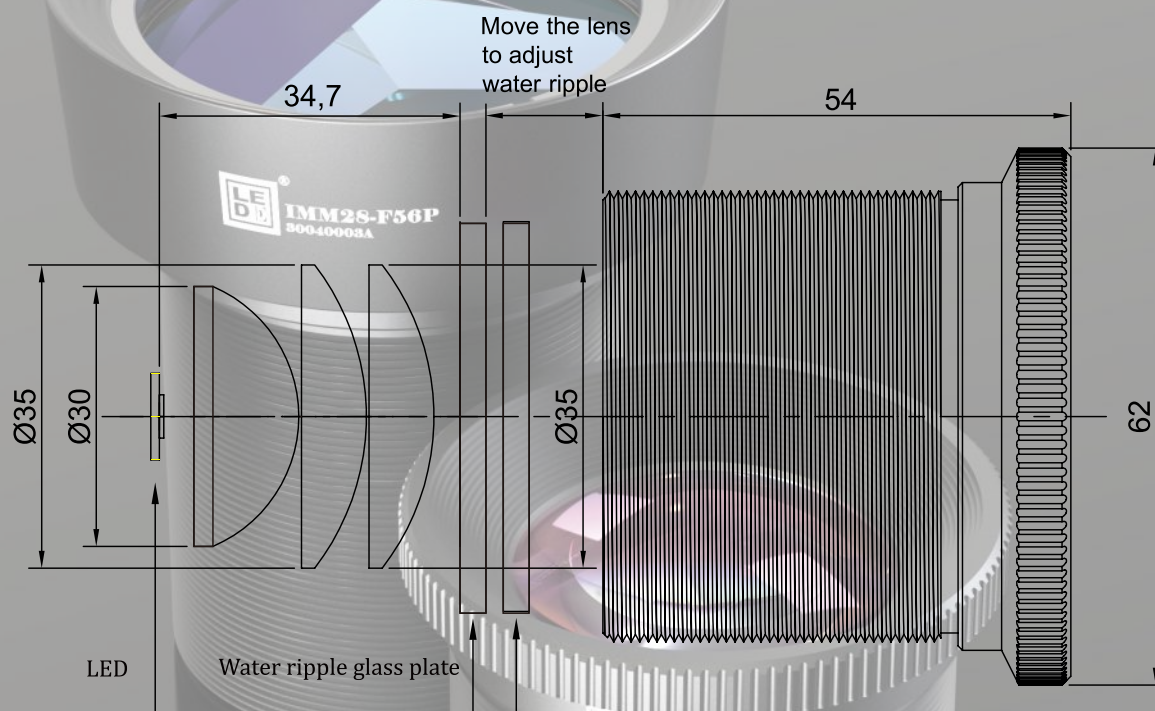


Model No.	IMM55LS-F19	IMM55LS-F26	IMM55LS-F33
LED	LES $\leq \Phi 60$ mm LES $\leq \Phi 22$ mm is suggested, for higher optical efficiency and imaging quality The LED matrix module can be used also in the light path		
Condensing lens	IMMDX707280 lens set, $\Phi 70$, $\Phi 72$ and $\Phi 80$ mm		
Gate	$\leq \Phi 60$ mm, default $\Phi 55$ mm		
Beam angle (constant)	19 degrees, default	26 degrees, default	36 degrees, default
Work mode	Move the front lens IMM55LS to focus to get clear image or spot		
Uniformity	Up to 90%		
Light path length	≤ 276 mm	≤ 248 mm	≤ 230 mm
	from LED to front lens		

IMM28-F56/F56P/F25

- Wide beam angle, constant
- High imaging quality and short light path
- Used in LED gobo projector, LED profile spotlight, etc

Light path diagram



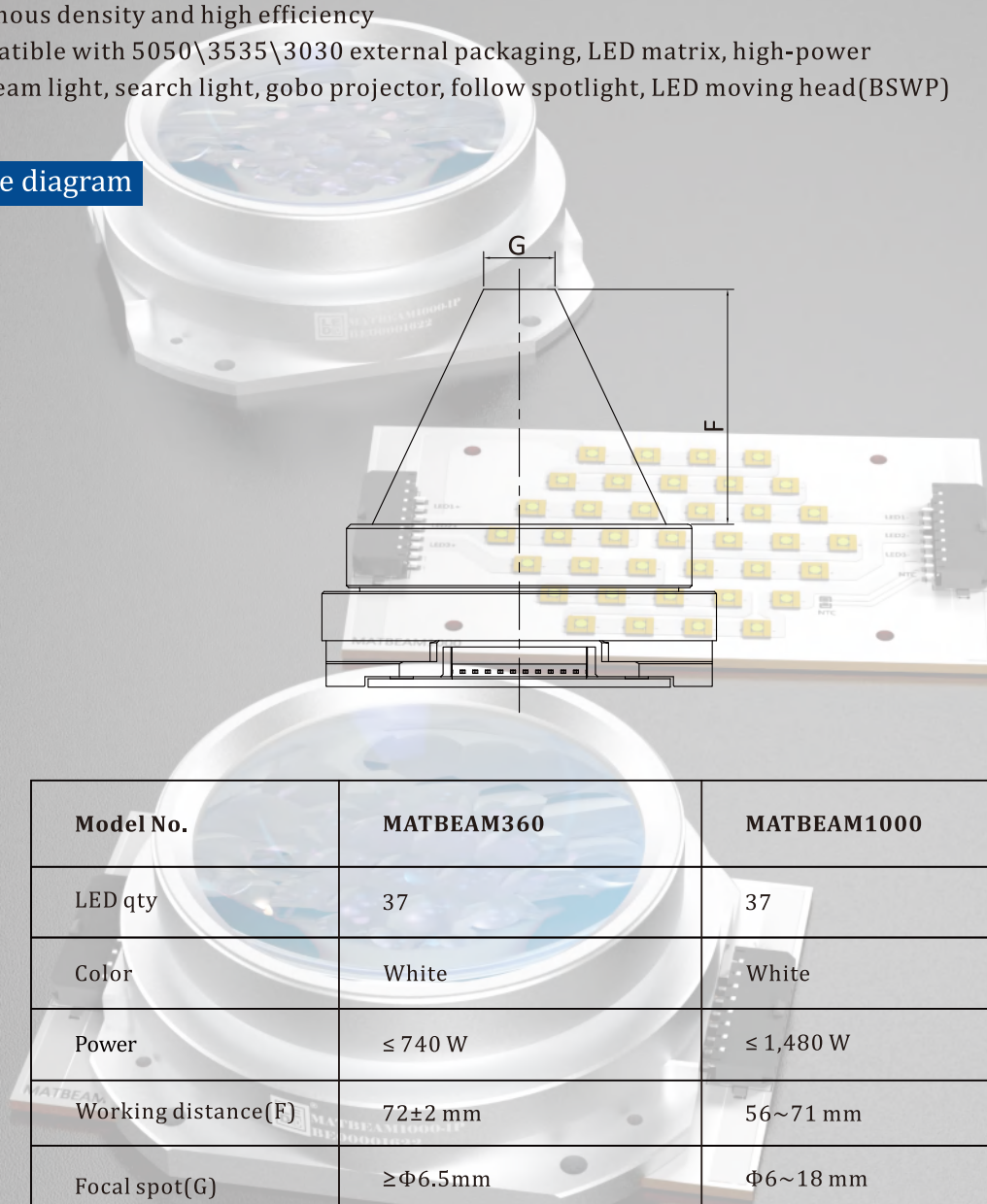
Model No.	IMM28-F56	IMM28-F56P	IMM28-F25
LED	LES ≤ Φ11mm		
Condensing lens	IMMDX303535 lens set, Φ30mm , Φ35 mm and Φ35mm		
Gate	≤ Φ28 mm		
Beam angle (constant)	56 degrees	56 degrees	30 degrees
Work mode	Move the front lens IMM28-Fxx to focus to get clear image or spot		
Prism	N/A	Yes, 3 images of projection	N/A

MATBEAM360/1000

LED matrix module

- Condensing technology with invention patent
- Multi layer fly-eye lens condensing
- High luminous density and high efficiency
- LED compatible with 5050\3535\3030 external packaging, LED matrix, high-power
- For LED beam light, search light, gobo projector, follow spotlight, LED moving head(BSWP)

Light shape diagram



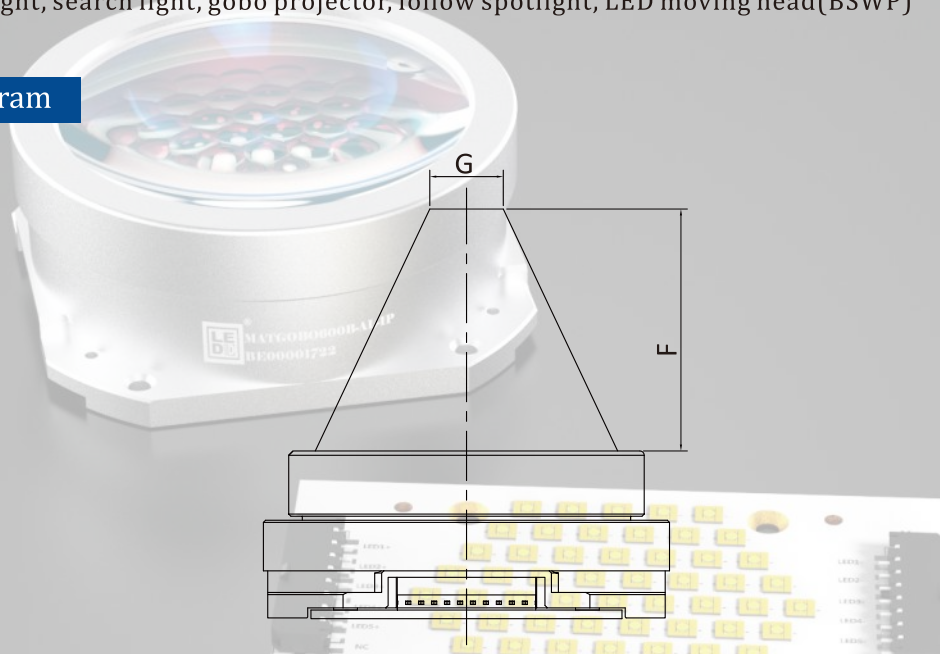
Model No.	MATBEAM360	MATBEAM1000
LED qty	37	37
Color	White	White
Power	≤ 740 W	≤ 1,480 W
Working distance(F)	72±2 mm	56~71 mm
Focal spot(G)	≥ Φ6.5mm	Φ6~18 mm
	this value changes with the luminous surface of LED	
Light shape beam angle	46 degrees	50~57 degrees
External size	L 110 × W 104 × H 44.7 mm	L 94 × W 92 × H 38.7 mm
Test data reference	30,000 lm @ 520 W	65,000 lm @ 800 W

MATGOBO190/370/600

LED matrix module

- Condensing technology with invention patent
- Multi layer fly-eye lens condensing
- High luminous density and high efficiency
- LED compatible with 5050\3535\3030 external packaging, LED matrix, high-power
- For LED beam light, search light, gobo projector, follow spotlight, LED moving head(BSWP)

Light path diagram

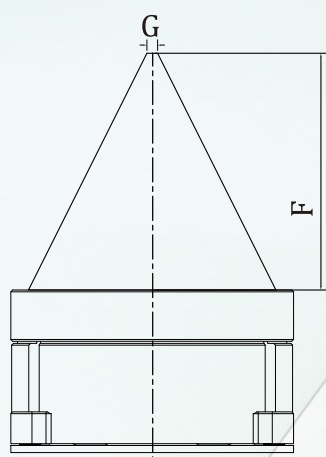
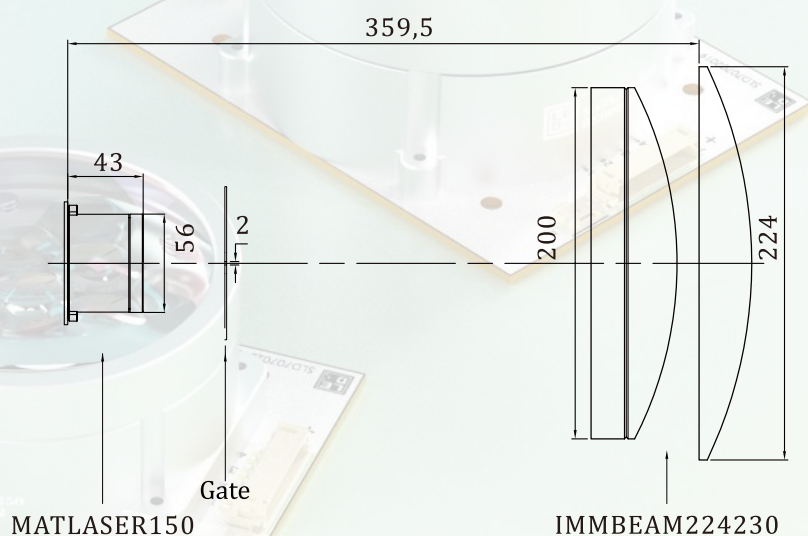


Model No.	MATGOBO190	MATGOBO370	MATGOBO600
LED qty	19	37	61
Color	White	White	White
Power	≤ 760 W	≤ 1,480 W	≤ 2,440 W
Working distance(F)	22~57 mm	44~62 mm	70±2 mm
Focal spot(G)	Φ4~24 mm	Φ6~24 mm	Φ9~32 mm
	this value changes with the luminous surface of LED		
Light shape beam angle	38~70 degrees	50~63 degrees	45~60 degrees
External size	L 57 × W 57 × H 29.5 mm	L 72 × W 72 × H 30 mm	L 94 × W 92 × H 44.5 mm
Test data reference	30,000 lm @ 400 W	62,000 lm @ 800 W	100,000 lm @ 1,300 W

MATLASER150\250\400

Laser matrix module

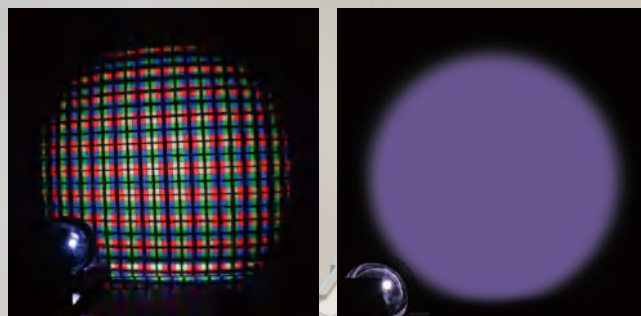
- Condensing technology with invention patent
- Multi layer fly-eye lens condensing
- High luminous density and high efficiency
- SLD laser compatible, laser matrix, high-power
- For Laser beam light, search light, etc

Light shape diagram

Beam light path diagram


Model No.	Output diameter	G	Minimum beam angle	Laser qty	Maximum luminous flux	Power
MATLASER150	Φ48.5 mm	Φ2 mm	0.45°	7	7,000 lm	140 W
MATLASER250	Φ70 mm	Φ3 mm	0.65°	13	13,000 lm	260 W
MATLASER400	Φ78 mm	Φ4 mm	0.9°	19	19,000 lm	380 W

Light Guide Rod

- High precision glass polishing and grinding process
- Reflective surfaces with high finish
- Uniform color-mixing
- Reinforced plastic holder, high temperature resistance



Model No.	LED	Input(mm)	Length(mm)	Output(mm)	Spot shape
TOP-DY37-2.5	RGBW, 4in1, 5060 package, 40W	2.5×2.5	37	Φ5	○
TOP-DY37-2.8		2.8×2.8	37	Φ5	○
TOP-DBF37-5028				5.0	⬡
TOP-DF68			68	5×5	⬡
TOP-DF43	RGBW, 4in1, 6070 package, 60W	3.8×3.8	43	6×6	⬡
TOP-DY43				Φ6	○
TOP-DF68-5038			68	5×5	⬡
TOP-DYB68-5038				Φ5	○
TOP-DYF68-5038				Φ5	○
TOP-DBF68-5438				5.4	⬡
TOP-DF68-7243		4.3×4.3	68	7.2×7.2	⬡
TOP-DYB68-7243				Φ7.2	○
TOP-DBF68-7243				7.2	⬡

There are various models of glass light guide rods without plastic holder to choose from, please contact our sales.

MRDB Color-mixing Barrel

- Multiple internal reflections, interior surfaces are coated with ultra-high reflective efficiency films
- Glass diffuser with micron-scale surface micro-structure on both sides
- High-precision polishing and grinding lens coated with multi-layer anti-reflection films
- Highly uniform color-mixing and high efficiency
- Designed for multi-color COB or highly integrated LED



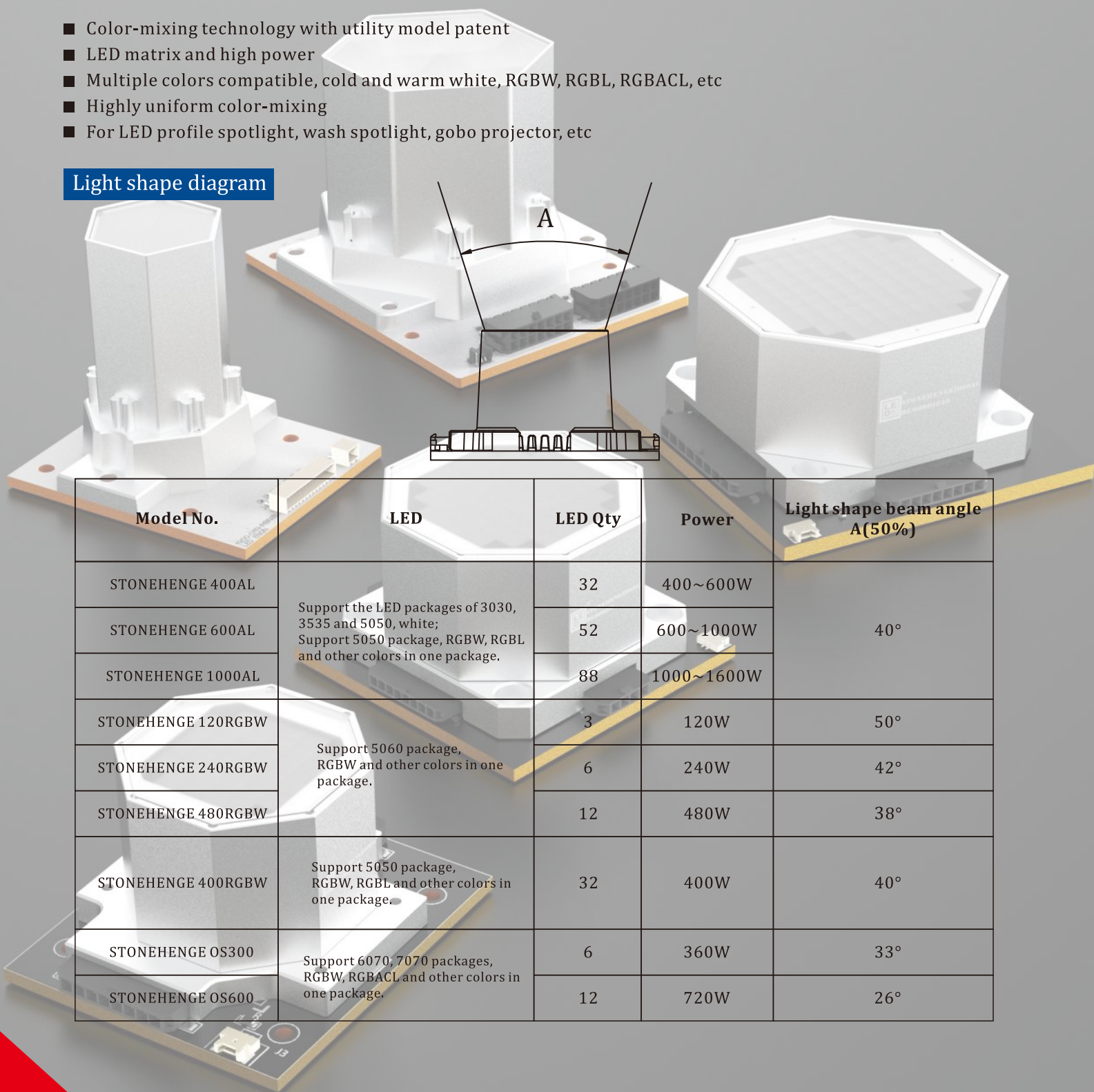
Model No.	LED	Output diameter	Light shape beam angle(10%)	Light shape beam angle (50%)	External size
MRDB60-183A	LES ≤ Φ 16.6mm	22 mm	88°	54°	48×45×71.5mm
MRDB60-183B		34 mm	88°	50°	48×45×72.9mm

STONEHENGE

LED color-mixing matrix module

- Color-mixing technology with utility model patent
- LED matrix and high power
- Multiple colors compatible, cold and warm white, RGBW, RGBL, RGBACL, etc
- Highly uniform color-mixing
- For LED profile spotlight, wash spotlight, gobo projector, etc

Light shape diagram



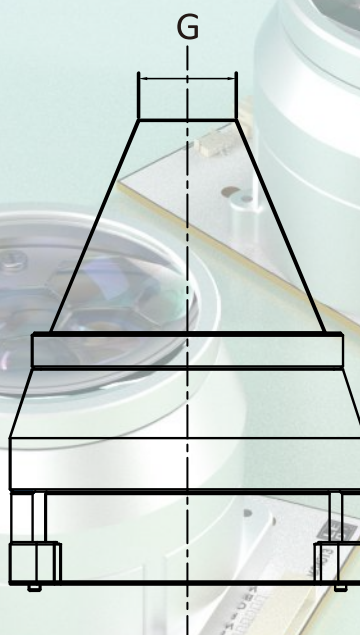
Model No.	LED	LED Qty	Power	Light shape beam angle A(50%)
STONEHENGE 400AL	Support the LED packages of 3030, 3535 and 5050, white; Support 5050 package, RGBW, RGBL and other colors in one package.	32	400~600W	40°
STONEHENGE 600AL		52	600~1000W	
STONEHENGE 1000AL		88	1000~1600W	
STONEHENGE 120RGBW	Support 5060 package, RGBW and other colors in one package.	3	120W	50°
STONEHENGE 240RGBW		6	240W	42°
STONEHENGE 480RGBW		12	480W	38°
STONEHENGE 400RGBW	Support 5050 package, RGBW, RGBL and other colors in one package.	32	400W	40°
STONEHENGE OS300	Support 6070, 7070 packages, RGBW, RGBACL and other colors in one package.	6	360W	33°
STONEHENGE OS600		12	720W	26°

MATGOBO0740/1340/1940

LED color-mixing matrix module

- Color-mixing technology with utility model patent
- LED compatible with 5050/5060 external packaging, LED matrix, high-power
- Multiple colors compatible, cold and warm white, RGBW, RGBL, etc
- Highly uniform color-mixing
- For LED profile spotlight, wash spotlight, gobo projector, LED moving head hybrid(BSWP), etc

Light shape diagram



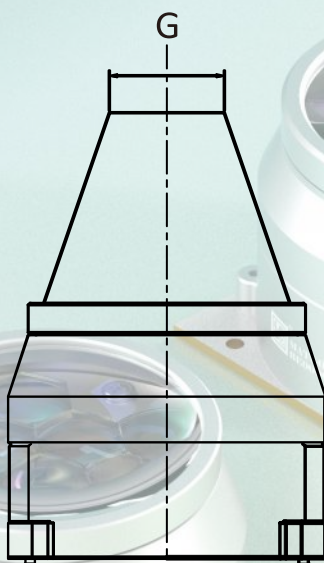
Model No.	LED Qty	Power	Focal Spot(G)	G shape
MATGOBO0740B	7	280 W	15~17 mm	
MATGOBO0740F				
MATGOBO1340B	13	520 W	20~22 mm	
MATGOBO1340F				
MATGOBO1940B	19	760 W	24 mm	
MATGOBO1940F				

MATGOBO0760/1360/1960/3060

LED color-mixing matrix module

- Color-mixing technology with utility model patent
- LED compatible with 6070/7070 external packaging, LED matrix, high-power
- Multiple colors compatible, cold and warm white, RGBW, RGBL, RGBACL, etc
- Highly uniform color-mixing
- For LED profile spotlight, wash spotlight, gobo projector, LED moving head hybrid(BSWP), etc

Light shape diagram

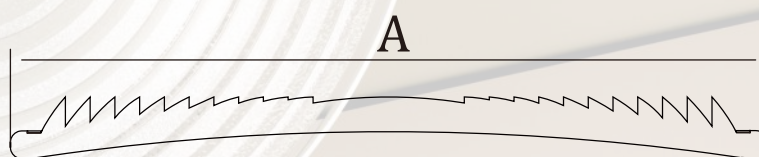


Model No.	LED Qty	Power	Focal Spot(G)	G shape
MATGOBO0760L22	7	420 W	22 mm	
MATGOBO0760L28			28 mm	
MATGOBO1360L	13	780 W	28~30 mm	
MATGOBO1360L40			40 mm	
MATGOBO1960L	19	1,140 W	30~32 mm	
MATGOBO1960L42			42 mm	
MATGOBO3060L45	30	1,800 W	45 mm	
MATGOBO3060L75			75 mm	
MATGOBO3060L75HPS			75 mm	

Conventional Fresnel Lens

- Precision molded product
- Wide zoom range
- Soft light spot and high uniformity

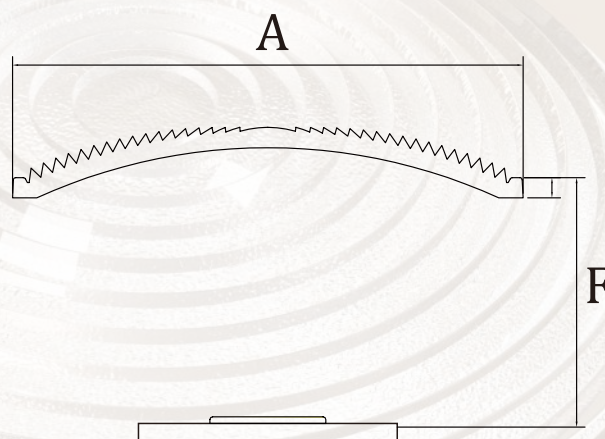
Model No.	Diameter A (mm)	Focal length (mm)	Model No.	Diameter A (mm)	Focal length (mm)
TOP-GF50F60	50	60	TOP-GF150F155	150	155
TOP-GF80F50	80	50	TOP-GF175F110	175	110
TOP-GF110F85	110	85	TOP-GF200F120	200	120
TOP-GF112F95	112	95	TOP-GF200F160	200	160
TOP-GF120F95	120	95	TOP-GF250F180	250	180
TOP-GF130F90	130	90	TOP-GF300F300	300	300



Cracker-GF Fresnel Lens

- Precision molded product
- Wide zoom range
- Soft light spot and high uniformity
- Shorter focal length and higher efficiency

Model No.	Diameter A (mm)	Focal length (mm)
Cracker-GF7235	72	35
Cracker-GF9045	90	45

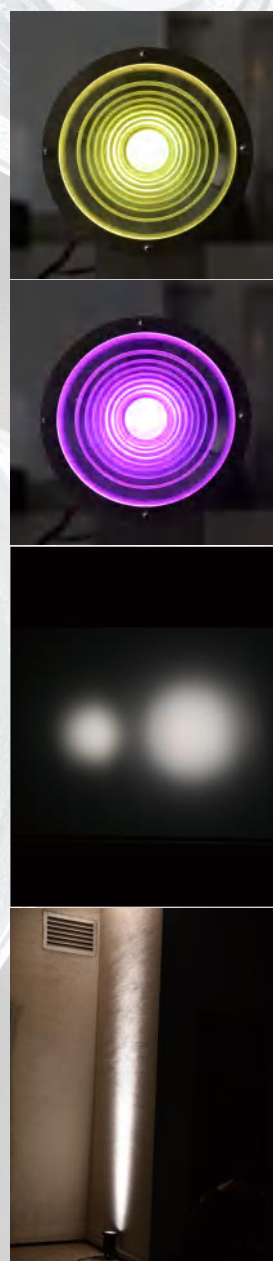


PEGGY/KULLEN/KULLEN-GLASS

Total internal reflection Fresnel lens

- Optic condensing technology with invention patent
- Folded light path, ultra short focal length
- Precision molded product
- High light utilization, lens matrix and high power
- Compact design to the luminaire
- Support super fast electronic zoom
- Multifunctional, beam, wash, flood, color-mixing, etc

Model No.	External size (mm)	LED (LES, mm)	Beam angle (degree)	Field angle (degree)
PEGGY45	Φ45×8.2	Φ1	2	3
		Φ2.2	5	5.5
PEGGY70	Φ70×12.5	Φ2.2	5	7.6
		Φ6	7.7	11.7
		Φ18	22	33.6
PEGGY90	Φ90×16	Φ6	6.5	9.9
		Φ18	15	22.9
KULLEN90	Φ90×22.4	Φ2.2	2	3
		Φ3.2	4	6
KULLEN126	Φ126×20.8	Φ3.2	3.3	5.3
		Φ8.5	8	12.2
		Φ26	20.4	29.6
KULLEN200	Φ200×32.6	Φ3.2	2.36	4.7
		Φ8.5	5.6	9.14
		Φ26	12.3	20.4
KULLEN-Glass45	Φ45×10	Φ4.2	14	27.2
		Φ6.0	16.5	34.4
		Φ8.5	20.1	43.6
KULLEN-Glass72	Φ72×16.3	Φ4.2	4.9	14.1
		Φ6.0	6.1	19.2
		Φ8.5	8.9	25.3
KULLEN-Glass90	Φ90×17.1	Φ4.2	6.8	16.7
		Φ6.0	7.6	20.1
		Φ8.5	10.9	25.8



IMMDX

Condensing lens assembly

- A condensing lens set includes several lenses assembled in a matte black barrel
- High optical efficiency, uniformity
- Multiple models to choose from, adapted to common LED light sources
- Used in conjunction with IMM imaging ranges optics to obtain high-quality imaging
- High definition, high uniformity and efficiency of the imaging light path
- For LED profile spotlight, wash spotlight, gobo projector, etc

Selection form I, for LED that is single color, e.g. white

Model No.	External diameter	Height	Luminous surface of LED(Φ)	Output diameter
IMMDX122020-L37	24mm	24.6mm	$\leq 12\text{mm}$	18mm
IMMDX20X3	30mm	28.1mm	$\leq 10\text{mm}$	19mm
IMMDX25X4-7669	31mm	30.5mm	$\leq 12.5\text{mm}$	23mm
IMMDX202525	32mm	20.8mm	$\leq 10\text{mm}$	23mm
IMMDX25X330	38mm	38.2mm	$\leq 12.5\text{mm}$	28mm
IMMDX2535X2	41mm	35mm	$\leq 12.5\text{mm}$	33mm
IMMDX303535	41mm	37mm	$\leq 15\text{mm}$	33mm
IMMDX3544X3	50mm	46mm	$\leq 17.5\text{mm}$	42mm
IMMDX25X244X2	50mm	54.5mm	$\leq 12.5\text{mm}$	42mm
IMMDX354450X2	56mm	54.8mm	$\leq 17.5\text{mm}$	48mm
IMMDX70X4	76mm	80.3mm	$\leq 35\text{mm}$	68mm
IMMDX7080100X2	106mm	116.5mm	$\leq 35\text{mm}$	87mm

Selection form II, for LED that can be multiple colors, e.g. white, cold and warm white, RGBW, RGBACL, etc.

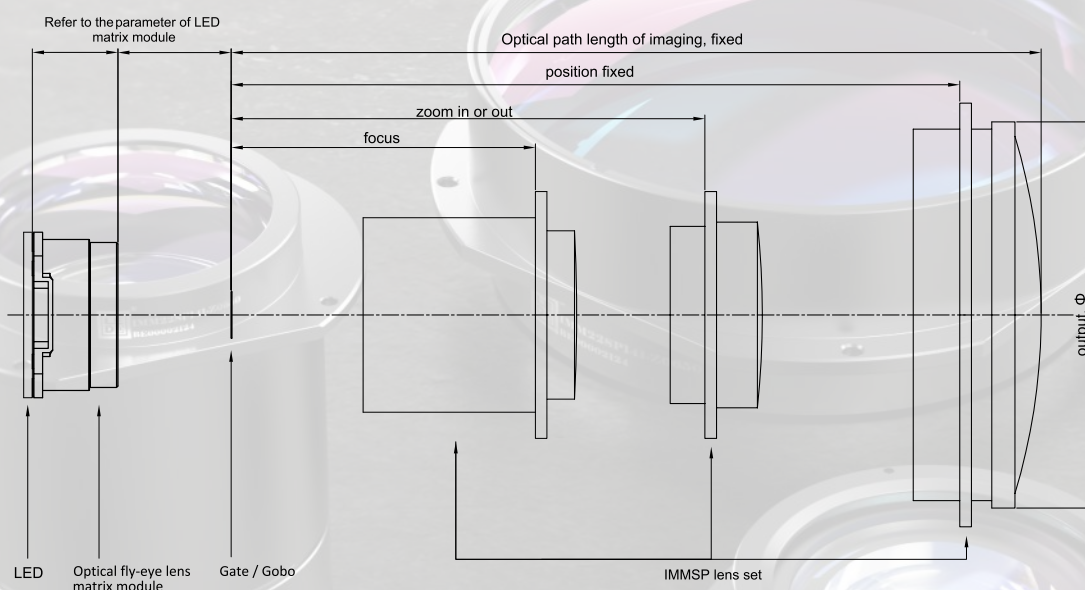
Model No.	External diameter	Height	Luminous surface of LED(Φ)	Output diameter
IMMDX25X4-7669R2D	31mm	32.5mm	$\leq 12.5\text{mm}$	23mm
IMMDX202525R1D	32mm	21.8mm	$\leq 10\text{mm}$	23mm
IMMDX25X330R1D	38mm	39.2mm	$\leq 12.5\text{mm}$	28mm
IMMDX2535X2R1D	41mm	36mm	$\leq 12.5\text{mm}$	33mm
IMMDX303535R1D	41mm	38mm	$\leq 15\text{mm}$	33mm
IMMDX3544X3R2D	50mm	48mm	$\leq 17.5\text{mm}$	42mm
IMMDX354450X2R2D	50mm	56.8mm	$\leq 17.5\text{mm}$	48mm
IMMDX25X244X2R2D	50mm	56.5mm	$\leq 12.5\text{mm}$	42mm
IMMDX70X4R2D	76mm	82.3mm	$\leq 35\text{mm}$	68mm
IMMDX7080100X2R2D	106mm	118.5mm	$\leq 35\text{mm}$	87mm

IMMSP

High magnification zoom lens set

- A lens set includes three lens assemblies
- Wide zoom range, high magnification zoom
- High resolution of the lens, high imaging quality and uniform light spot
- Used in conjunction with the LED matrix modules with the colors of white, cold and warm white or RGBW
- For LED moving head light(wash, spot, beam, profile), profile spotlight, gobo projector, etc

Light path diagram



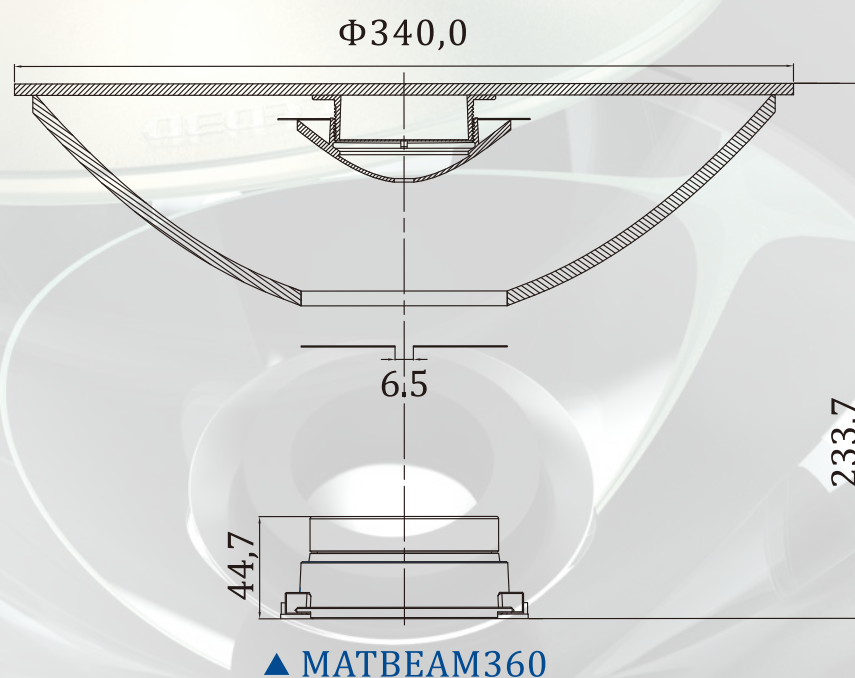
Model No.	Output surface(Φ)	Gate(Φ)	Zoom range	LED matrix module
IMM16SP133-Z0540	133mm	≤16mm	5~40°	MATGOBO190/190PH MATGOBO370/370PH MATBEAM360 MATBEAM1000 MATGOBO0740/1340 MATGOBO0760/1360
IMM22SP127-Z0653	127mm	≤22mm	6~53°	
IMM22SP140-Z0654	140mm	≤22mm	6~50°	
IMM22SP141-Z0650	141mm	≤22mm	5~50°	
IMM22SP148-Z0550	148mm	≤22mm	5~50°	
IMM22SP149-Z0555	149mm	≤22mm	5~55°	
IMM25SP147-Z0650	147mm	≤25mm	6~50°	MATGOBO190/190PH MATGOBO370/370PH MATGOBO600 MATGOBO600P/600PH MATBEAM360 MATBEAM1000 MATGOBO0740/1340 MATGOBO0760/1360 MATGOBO1940/1960 MATGOBO3060
IMM26SP170-Z0651	170mm	≤26mm	6~51°	
IMM26SP174-Z0650	174mm	≤26mm	6~50°	
IMM26SP177-Z0550	177mm	≤26mm	5~50°	
IMM28SP188-Z0550	188mm	≤28mm	5~50°	
IMM28SP199-Z0550	199mm	≤28mm	5~50°	
IMM28SP207-Z0550	207mm	≤28mm	5~50°	

D-BEAM320

Optical reflector

- Folded light path, multiple reflections
- High-efficiency reflective coatings
- Large luminous size, narrow beam angle
- For LED beam light, outdoor search light, etc
- Dimension: $\Phi 340 \times 97$ mm
- Luminous size: $\Phi 320$ mm
- Beam angle: $< 1^\circ$

Light path diagram



Beam optics	LED matrix module	Power	Drive Current	Beam angle	Illumination @ 10m
D-BEAM320	MATBEAM360	520 W	4.0 A $\times$ 3	1°	100,000 lux
	MATBEAM1000	800 W	6.0 A $\times$ 3	2.9°	125,000 lux
	MATGOBO600	1,300 W	6.0 A $\times$ 3	4°	110,000 lux

IMMBEAM180180/224230

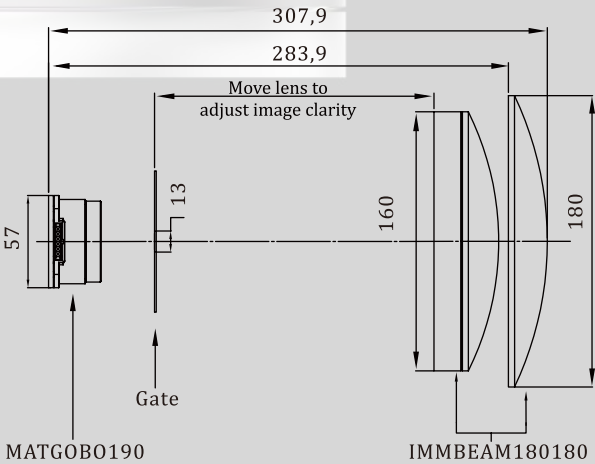
Collimating lens set

IMMBEAM lens set is composed of two lenses, one achromatic cemented lens and one convex lens, every lens is coated with multi-layer anti-reflection films.

IMMBEAM180180
Luminous size: Φ180 mm

Test data:

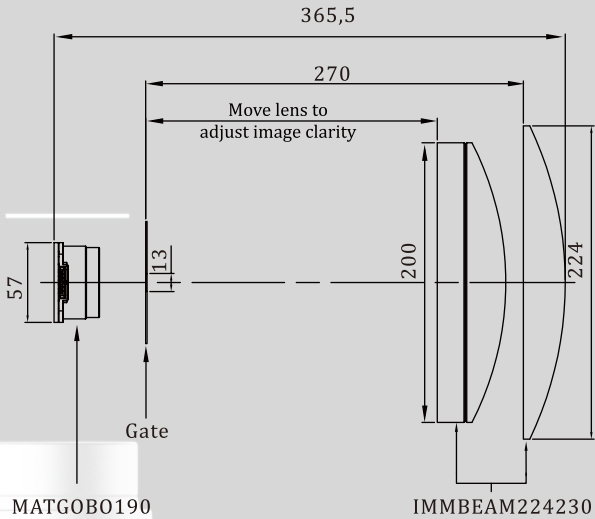
Light source	MATGOBO190 LED matrix module	Gas discharge bulb
Power (W)	400	300
Beam angle(°)	4	1
Illumination 10m (lx)	57,000	1,080,000



IMMBEAM224230
Luminous size: Φ224 mm

Test data:

Light source	MATGOBO190 LED matrix module	Gas discharge bulb
Power (W)	400	300
Beam angle(°)	3	1
Illumination 10m (lx)	90,000	1,750,000



CL3501

LED pixel matrix projection module

- Light guide and LED pixel matrix 5*7
- High luminous density LED
- Static or dynamic letters, characters, or patterns output
- Multi -module splicing combination
- DMX512 network connection and control
- Matched with IMM lens sets to build pixel projector
- Linear zoom, crystal-clear image and high-luminance

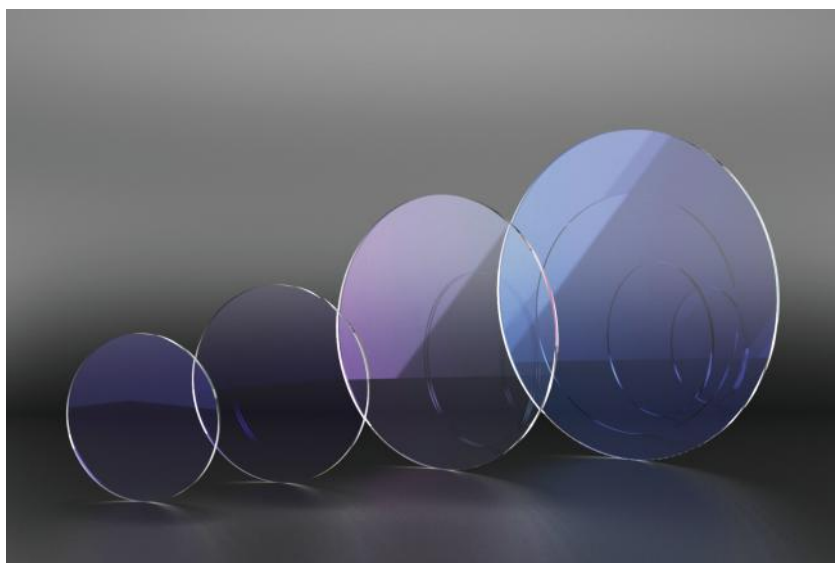


Patent

GY

Anti-glare glass sheet

Anti-Glare Glass Sheet



Model No.	Size
GY721AR	Φ72 × 1 mm
GY581AR	Φ58 × 1 mm
GY401AR	Φ40 × 1 mm
GY321AR	Φ32 × 1 mm
Other sizes and shapes can be customized	

The GY series glass sheet is used for protecting the imaging projection lens. The glass sheet is coated with multi-layer anti-reflection films, up to 99% of the transmittance efficiency, effectively eliminate the glare, fuzzy fringes and shadows of the projected image and spot.

V/P/PW

VR optical module


VR Engineering Model V1

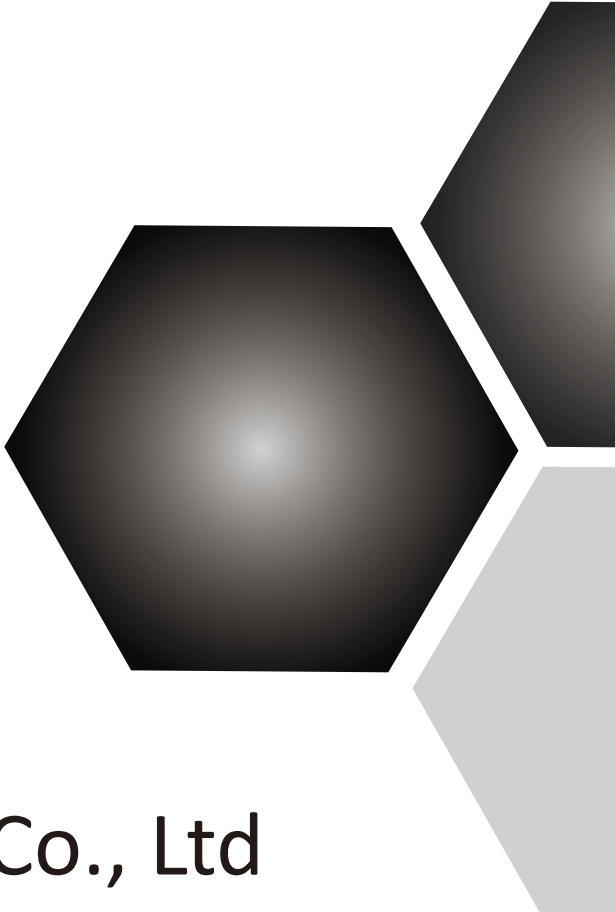
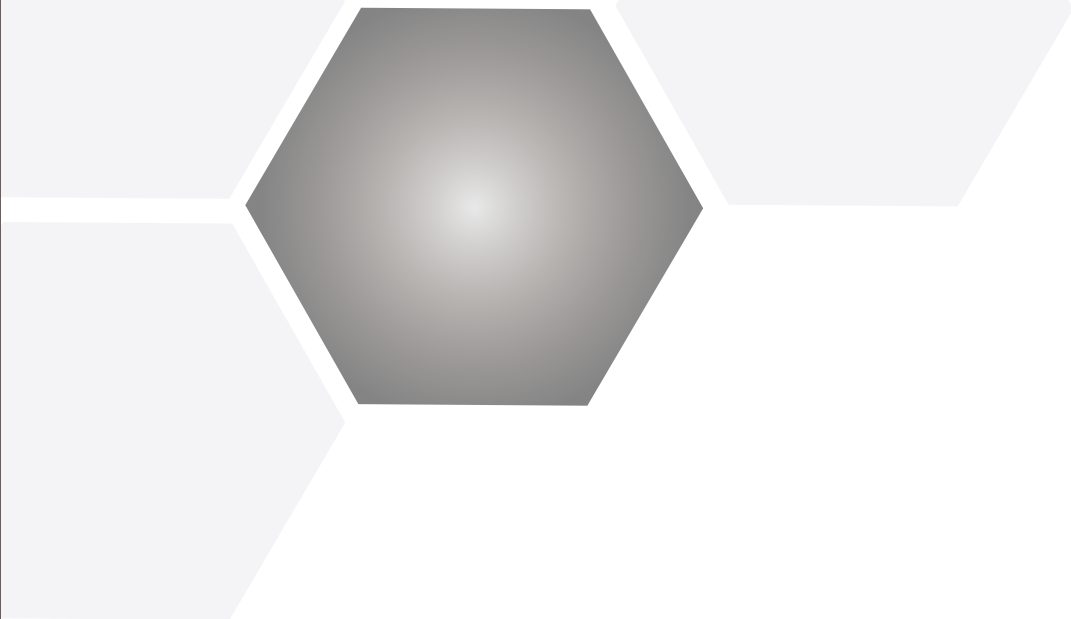
- ▶ Lens: V1
- ▶ Net Weight: 136.4g
- ▶ Display Screen: SONY ECX335AFZ, Micro OLED, 0.71"
- ▶ Resolution: 1920*1080
- ▶ FOV: 55°
- ▶ Human Eye Adaptability: -12D~+5D
- ▶ Inclination compensation zoom patent
- ▶ High-speed WiFi connection cast

VR Engineering Model V2

- ▶ Lens: V2
- ▶ Net Weight: 105.6g
- ▶ Display Screen: SeeYa, OLEDoS, 0.49"
- ▶ Resolution: 1920*1080
- ▶ FOV: 46°
- ▶ Human Eye Adaptability: -12D~+5D
- ▶ Inclination compensation zoom patent
- ▶ DP USB TYPE-C connection



Model No	V1	V2	V3	P1	P2	P3	PW2
Imaging way	Multi-lens Refraction		Pancake				
Zoom distance(mm)	2.9	4.1	2.1	5.4	3.85	5.2	1.8
Max.length(mm)	31.2	29.2	14.9	19.9	16.6	27.4	13.0
Net weight(g)	28.6	24.4	19.0	20.7	10.5	35.0	14.2
Display screen size(inch)	0.71	0.49	1.03	0.71	0.49	1.03	0.49
FOV(°)	55	46	85	58	54	60	64
Distortion(≤)	2%	1%	1.74%	1.58%	1.2%	1.8%	0.51%
Human Eye Adaptability	-12D~+5D						



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