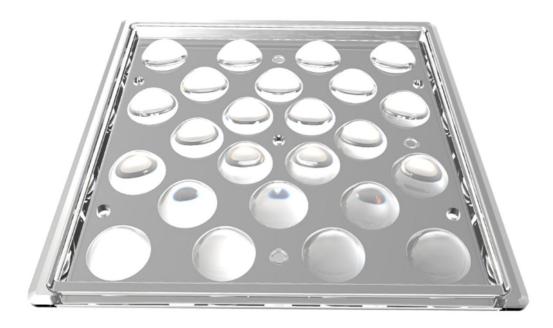
Approval number :

Customer : Product : BL 24 and 1-90 degree lamp lens Material Code : 1.01.12797 PN : HK-100@08-90-3535-#0-1g-24

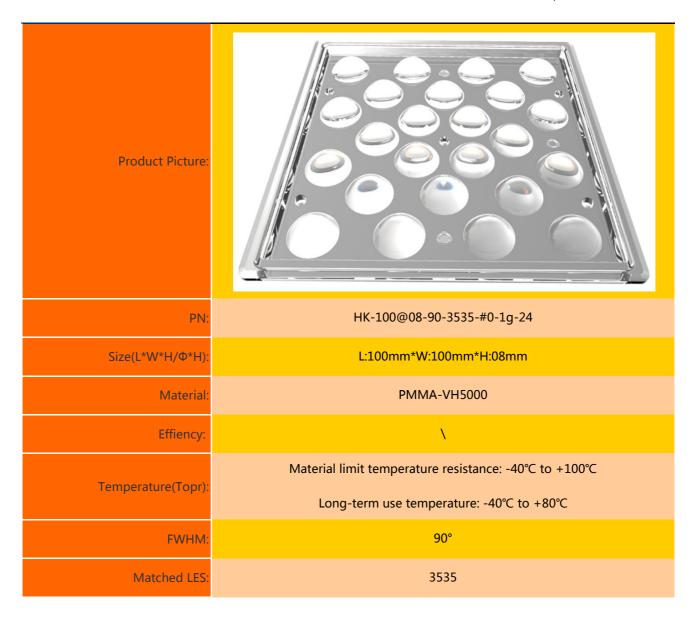


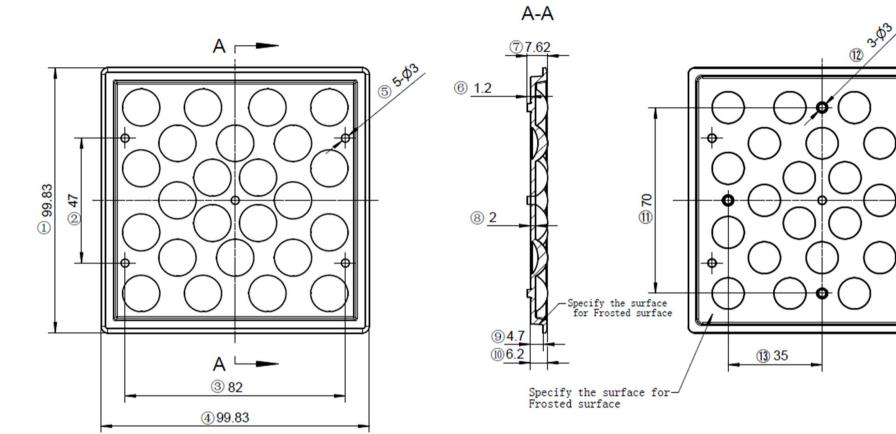
Supplier confirmation			Client confirmation				
Proposed		DATE		Qualified□		D.4.75	
Project manager		DATE		Unqualified□		DATE	
Audit		DATE		Audit		DATE	
Approved		DATE		Approved		DATE	
Stamp		DATE		Stamp		DATE	

*Approval In duplicate , for both supplier and customer.

Product Approval

Date updated: 2022/1/5





Technical remark:

MT5

Tolerance

table (mm) olerance valu

1. The 3D map is not indicated for rounded corners and draft angle.

<3

±0.1

2. The dimensional tolerances are not specified according to GB/T 14486 2008 MT5.

3, The surface has no flash, shrinkage, bubbles and other defects.

Basic size

*4. When the lamp adopts rubber ring for waterproofing: the roughness of the contact surface the radiator and the rubber ring is required: Ra<3.2µm

3~10

±0.15

10~24

±0.2

24~65

±0.35

		Optical	l design					HK-100@08-90-3535-#0-1g-24				
t surface between		itructur	e desig				BL 24 and 1-9	1.01.12797				
		Rev	view						umber o	f drawin	qty	weight
		Valid	Validation				Material: PMMA-VH5000		СДНК			
65~140	140~	~250	250~	~450	>4	450			-			
±0.50	±0	.80	±1	2	±2	2.0						

Ð

Ð

			Standard size	Upper Size limit	Lov size		Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks
	Positioning column diameter		3	3.1	2.	9	3.03	3.02	3.03	3.04	\backslash	Test environment: In 20 ℃ -25
1.Size	Position colum spacin	n	70	70. 3	69.	85	70.2	70.18	70.21	70.19	\backslash	°C environment to achieve thermal
	Position colum spacin	n	35	35.2	34.	85	35.1	35.09	35.07	35.11	\backslash	equilibrium after the test.
				Gate she	ar car	n not a	affect the a	appearance	of the lamp)		
				See atta	chme	nt "Ap	opearance	Inspection	Standards"			
2.Appear	rance		See achment pearance	ce E —		No burr No stains		No burr	No burr	No bu	rr	ок
Quality		In	spection andards"					No stains	No stains No stains		ns	OK
3.Materia	al			PMMA-VH	15000			Color	Tra	Transparent OK		
	Testing I	LED						3535				
4.Optica	compa capabilit	The recommended size and power rating of the LED light source recommended for this lens should be comparable to the source of the test, if it is required to be out of range. According to the heat dissipation capability of the lamp and the actual conditions of the use environment, the lens should be fully tested and										
l index	FWH						distribution curve					
	angle											
	Efficie	-				-						
	Facula	See	the signatu	re sample								
	ehensive ment							Q	ualified			
					MMA	prod	uct size ch	anges with	temperatur	e table		
Remarks: 1、Tool Number: V-Vernier Caliper 2D-Quadratic H- Height Gauge M-Tool Microscope P-Needle T- Thick Gauge R-Radius Gauge E-Visual. 2、Ambient temperature on the size of the product refer to the table on the right			e on	Length changes (mm)	0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.1		10 2			← Size: 50 ← Size: 10 ← Size: 11 ← Size: 20 ← Size: 20 ← Size: 30	00 տու 50 տու 00 տու 50 տու	
Precautio	ons:											

 Please wear clean gloves during the lens assembly process to prevent the lens surface from being contaminated.
 Try to avoid touching the total reflection surface when taking the lens.
 The lens surface is contaminated. Only use a soft cotton cloth dipped in analytically pure neutral solvent to wipe gently. Do not wipe with industrial solvents (alcohol, isopropanol, acetone, ether, toluene, xylene, carbon tetrachloride, MMA Body, etc.).

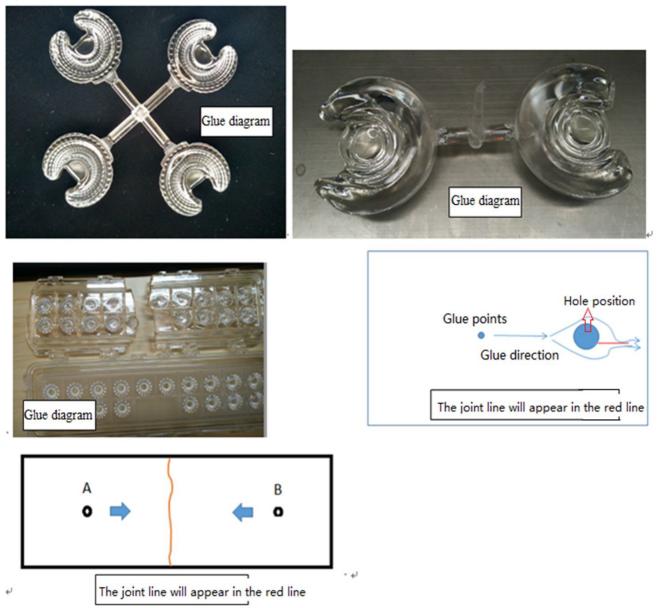
4. The working temperature of the lens should be within the temperature resistance limit of the lens material. Exceeding the temperature resistance limit will cause the lens to crack or melt and affect the service life of the lens. It

PN HK-100@08-90-3535-#0-1g-24			Product Name	BL 24 and 1-90 de	egree lar	np lens	
Product material PMMA-VH5000			Customer				
Package	diagram		•		47	7	
Product	packing	2	A/bag	81	Bag/layer		
		4	Layer/box	372	A/box		
	NO.	Part No	Part name	Size	Dosage	Unit	Remarks
	1		Plastic bags	11cm*35cm	186	BAG	
Packagin	2	2.06.0005	Box label paper	62cm*70cm	1	PCS	
g Materials	3	2.06.0007	The partition	39cm*29cm	5	PCS	
Materiais	4	2.06.0012	In the carton	41cm*31cm*27cm	n 1	PCS	
	5						
	6						
		packaging is not restricted by th of the lower two layers, 12 bags				81 bag	s for

Special notice

When gule pass through holes, columns and other structures, or part of the thin structure, will form a weld line. The product which uses multi-point injection welding line will appear because of the combination of sol, as shown below:

Syntneti



Please note :

The appearance of lines in the structure of the product as well as at the screw hole is a normal phenomenon, will not affect the actual use of the product, and can not be avoided at this stage.

Appearance inspection standards

1 Operating procedures

1.1.1Sampling standards, sampling plan and AQL

Test level : GB/T2828.1-2012The first part is according to the acceptance quality limit (AQL) retrieval batch inspection sampling plan, general inspection level Π level, CR class defect coefficient 0, MA defect rejection level AQL = 0.65, MI class defect rejection level AQL = 1.0; defect level please see 5.4.

2 Code table

Code	Code description	Unit	Code	Code description	Unit
N	Amount/pcs	pcs	D	Diameter	mm
L	Length	mm	Н	Depth	mm
W	Width	mm	DS	Distance	mm
S	Proportion	mm²	SS	Offset	mm

3 Test conditions

3.1 Sight distance and working hours: Sight distance should be 30-35cm, each side of the inspection time does not exceed 12s, the visual angle of 45-135 degrees;

3.2 Light: 2x40w cool white fluorescent lamp, the light source is 500-550mm away from the lens surface; in order to make the appearance defect can be correctly recognized, the illumination should be 500-1000Lux, and the observation time is 10 seconds.

3.3 Visual inspection staff should be 1.0 (including corrected visual acuity) above, no color blindness, color weakness.

4 Appearance inspection standards

Test items	ludeing stondard	Inspection equipment	Defect level		
rescilents	Judging standard	Testing method	МІ	MA	CR
	When start the machine and process, all products have to check the appearance of the sample, the appearance of the sample is divided into qualified samples and limited samples.				
Check the sample	1: Qualified sample refers to the appearance and structure standard of the product which recognized by the client, the sample size should be confirmed before mass production;	Sample comparison , visual			v

	2: The limited sample refers to the limit of a particular exceptionally developed sample. Limit the sample only for its specific point of exception to confirm; The priority is higher than the other criteria in this table. When there is a limited sample, the limit sample shall prevail.			
Raw edge	Not allowed to affect the size and assembly	Visual, point card	V	
Scratch	1: Non-optical surface and non-exposed surface scratches should be visually insignificant and the length is less than 1/10 of the maximum surface size.	Visual, point card, calipers	v	
Fingerprint	Fingerprints are not allowed on all products	Visual	V	
Foreign objects, black spots, white spots	The product may not be attached to foreign objects, including oil, fiber, dregs of water gap and so on			V
Deformation	Insufficient filling shall not affect the appearance of the assembly and the exposed surfaces.	Visual, feeler		V
Poor ejection	Products may not appear bad ejection, including no convex top, thimble printed on the assembly surface shall not be higher than the product surface, non-assembled surface thimble height should not exceed the product size tolerances; thimble printing should be less than the product surface and no more than 0.3; thimble surface treatment should be consistent with the product side. Ejection strain: the optical surface and the appearance of the exposed surface after assembly are not allowed to have a strain, and the structural surface does not allow visual obvious strain.	Visual, point card	V	
Insufficient filling	Insufficient filling shall not affect the appearance of the assembly and the exposed surfaces, The signature sample shall prevail.	Visual, point card	v	
Shrink	When the entire surface of the product shrinks, the optical properties and dimensions must meet the requirements, and the visual will not significantly affect the appearance.Part shrink reference point defects	Visual, point card	V	
Flow marks、Welding line	 Product does not allow the presence of flow marks and welding lines unless the structure can not be avoided; The remaining flow marks shall not appear in the optical surface, a single L ≤ 10mm, no more than two 	Visual	V	

Bubble	No bubbles are allowed	Visual		\checkmark	
Foreign objects, black spots, white spots	Not obvious or D ≤ 0.3mm black spots and foreign bodies in the area of 100x100mm not more than 1; Exceeded foreign matter black spots is judged bad.	Visual, point card	V		
Damaged	No damage is allowed	Visual			\checkmark
Cold glue	Optical surface may not have cold glue, non- optical surface cold glue should meet the visual is not obvious.	Visual	\checkmark		
	1: Do not affect the product size, shall not penetrate the optical surface, the cut should be smooth;				
Bad incision	2: Laser cutting products, the optical surface burns shall not occur after the processing is completed. Beading must not affect product installation	Visual			V
	3: Three molds and hot runner gate shall not appear residue.				
Scrub	Scrub surface should be uniform, off the scrub phenomenon should not be obvious , A single off scrub imprint requires $D \le 1$ mm and no more than 1 area within a 50x50 mm area	Visual		V	