

HERCULUX Chengdu HercuLux Photoelectric 恒坤光电 Technology Co.,Ltd

Product Approval

Approval number:

Customer:

Manufacturer: Chengdu HercuLux Photoelectric Technology Co.,Ltd

PN	Code	Product				
HK-JZ-50@06-150-5050-#0-1g-6	1. 02. 23078	HK Matrix 6in1-TYPEV street lamp lens				



	Supplier confirmation			Client confirmation			
Proposed		DATE		Qualified□		5.475	
Project manager		DATE		Unqualified□		DATE	
Audit		DATE		Audit		DATE	
Approved		DATE		Approved		DATE	
Stamp		DATE		Stamp		DATE	

(Confirmation of acceptance by both parties must be signed and sealed)

Factory: Chengdu Shuangliu District, Iot industrial park 2 road HercuLux Photoelectric Park

Phone: 028-85887727 (801) 028-85887990 (801) Fax: 028-85887730 http://www.herculux.cn/

Sales Dept: Shenzhen Nanshan District Nanshan Cloud Valley Innovation Industrial Park Comprehensive Service Building, 501-

TEL: 0755-2937 1541 FAX: 0755-2907 5140

*Approval In duplicate, for both supplier and customer.

HERCULUX 恒坤光电

Disclaimer

Please use this product within the permitted range and environment according to the structure and material of the product. If the usage exceeds the recommended value, please test and verify by yourself. If the product is damaged due to out-of-range use, our company will not be responsible for the warranty.

Product material:

Customized products: The specifications and models of materials used are subject to the agreement between the two parties.

Conventional products: As a product that we continuously research and improve, under the premise of ensuring the quality and availability of the product, our company reserves the right to change the material. If the material specification and model change, without prior notice.

product data:

The measurement data and dimensional tolerances of the 2D drawings in the product data sheet of this acknowledgement are for reference only, and the final size shall prevail in kind.

The measurement data presented in this acknowledgment is a performance test of the product based on our company's internal test conditions and quality requirements, and the reported data is a typical value of the average results of multiple measurements. Therefore, in some cases, the actual product may deviate from the data provided. We reserve the right to notify you in advance of this data.

Product changes and improvements:

Changes and improvements of customized products are subject to the agreement between the two parties in the contract or technical documents.

As the conventional products that we continue to research and improve, our company reserves the right to make technical changes to its products, and reserves the right to make changes to data resulting from improvements without prior notice.

Operation cautions:

- 1. Please wear clean gloves during product assembly to prevent product surface contamination.
- 2. Try to avoid touching the optical surface of the lens when taking the lens.
- 3. When the surface of the product is polluted, please wipe it gently with a soft cotton cloth dipped in analytically pure neutral solvent. It is forbidden to use industrial solvents (alcohol, isopropanol, acetone, ether, toluene, xylene, carbon tetrachloride, MMA monomerm, etc.) wipe.
- 4.The lens made of PC should not be exposed to direct sunlight in the storage and use environment. If the lens turns yellow or cracks due to long-term sunlight exposure, our company will not be responsible for the warranty.



HERCULUX 恒坤光电 Basic product information

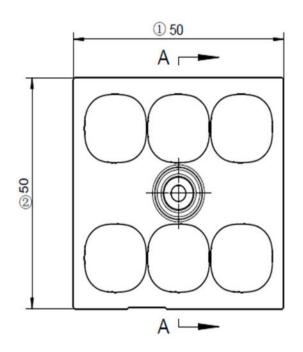
Date updated:

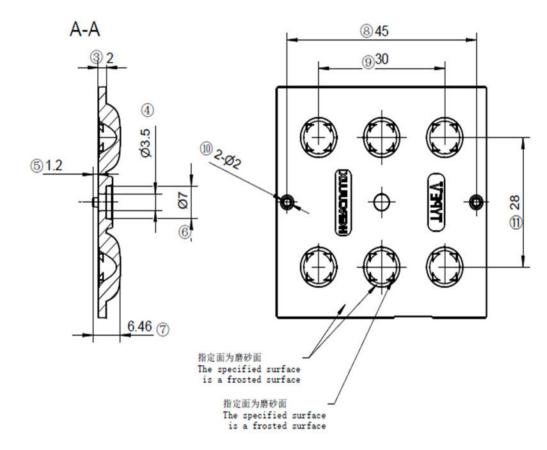
2023/5/29

http://www.herculux.cn/

Product Picture:	TOTAL
Size(L*W*H/Φ*H):	L:50mm*W:50mm*H:06mm
Material:	PMMA
Effiency:	\
Temperature(Topr):	Material extreme temperature resistance : -40°C to +100°C long-term use temperature : -40°C to +80°C
FWHM:	150°
Matched LES:	5050
Recommended MAX power:	/







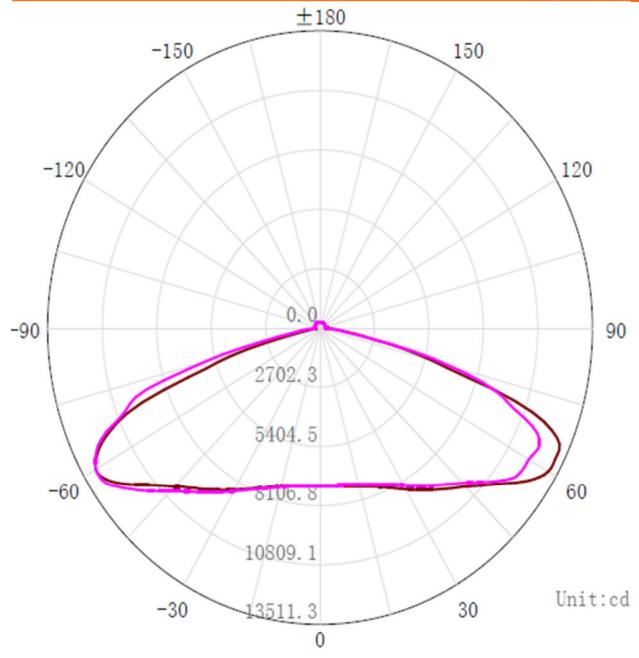
Technical remark:

- 1. The 3D map is not indicated for rounded corners and draft angle.
- 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.
- *4. When the lamp adopts rubber ring for waterproofing: the roughness of the contact surface between the radiator and the rubber ring is required: Ra<3.2 μ m

	Optical design	gn						0@0	06-150-5050)-#0-1	.g-6	
	Structure des	igr				HK Matrix 6	1.02.23078					
Į	Review					1	mber of drawi		qty	wei	ght	
Į	Keview											
	Validation					Material:	PMMA	CDHK				
_	~250 250	 ∩~45∩	>	450								

MT5 Tolerance	Basic size	<3	3~10	10~24	24~65	65~140	140~250	250~45	>2	450
	lerance val	±0.1	±0.15	±0.2	±0.35	±0.50	±0.80	±1.2	±2	2.0





C Plane [50%MaxAng.][10%MaxAng.]

--- CO. 0_180. 0 : 145. 3 160. 7 — C90. 0_270. 0 : 149. 7 162. 9



			idard ze	Upper Size limit	Lower size limit	Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks	
	Leng and w	- 1 5	60			50. 04	50. 12	50. 15	50. 05		Test	
1.Size	Positi g colu diam	umn :	2			1. 98	1.96	1. 99	1. 97		environment : In 20 °C - 25 °C environment	
1.3126	Space of position	onin 4	5			45. 16	45. 23	45. 19	45. 25		to achieve thermal equilibrium after the test.	
	thickr		2			2. 1	2.16	2. 12	2. 11			
				Gate sh	near can no	ot affect the	appearance	e of the lan	np			
				See attachment "Appearance Inspection Standards"								
See attachm			_	1	No burr	No burr	No burr	No bu	rr	211		
Quality	· · · · · · · · · · · · · · · · · · ·		on	E	N	o stains	No stains	No stains	No stains No stains		OK	
3.Material				PMMA	4		Color	Tra	nsparent		OK	
	Testing LED						5050	II.				
4.Optical			According to the heat dissipation capability of the lamp and the actual conditions of the use environment, the lens should be fully tested and tested to prevent the lens life. M See light distribution curve								the use	
index	á	angle	145. 3° X149. 7°									
	K-valu	ie (CD/LM	_		_						$\overline{}$	
	Eff	iciency			$\overline{}$						$\overline{}$	
	F	acula				See the	e signature	sample		4		
Comprehe	ensive	judgment					Qualified					
Remarks: 1. Tool Number: V- Vernier Caliper 2D- Quadratic H-Height Gauge M-Tool Microscope P-Needle T- Thick Gauge E-Visual. 2. Ambient temperature on the size of the product refer to the table on the right				Length change		IA produc	t size chan	ges with t	emperatu	ıre ta	ble	

Precautions:

- 1. Please wear clean gloves during the lens assembly process to prevent the lens surface from being
- contaminated.

 2. Try to avoid touching the total reflection surface when taking the lens.

 3. 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
- gently. Do not wipe with industrial solvents (alconol, isopropanol, acetone, etner, 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 is recommended that the upper surface temperature of the LED colloid should be less than 120 degrees.



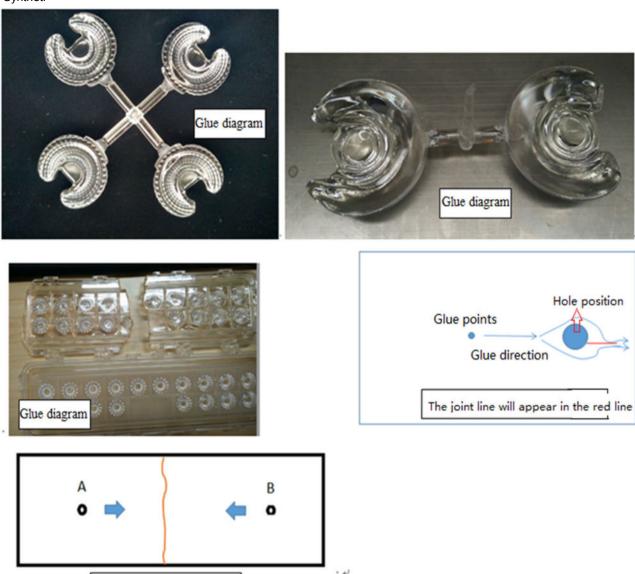
P	N	HK-JZ-50@06-150-5050-	#0-1g-6	Product Name	HK Matrix 6in1-TYPE \	stree	t lamp lens
Product	material			PMMA			
Package	diagram	© □ \ Single Vac	cuum packa	ge Bo	ox package	>	>
Product	packing	24	A/ Box	4	pcs/Layer		
		14	Layer/Box	1344	A/ Carton		
	NO.	Part No	Part name	Size	Dosage	Unit	Remarks
	1	2. 07. 0049	Blister box	23cm*21cm	56	BAG	
Dookogin	2	2. 08. 0001	PE film	25cm*27cm	56	PCS	
Packagin g Materials	3	2. 06. 0005	Reel label paper	62mm*42mm	56	PCS	
Materials	4	2. 06. 0005	Box label paper	62mm*70mm	1	PCS	
	5	2. 06. 0003	big plate	46cm*42cm	15	PCS	
	6	2. 06. 0011	big flat carton	48cm*44cm*37	cm 1	PCS	
Remarks		The loose packing is not subject	ct to this specif	ïcation. Customer	's requirements shall p	revail	



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.

The joint line will appear in the red line



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	Judging standard	Inspection equipment	Defect level			
Test items	Judyling Standard	Testing MI MA method			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			√	

1		7	1	1	
	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		√	
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		√	
Fingerprint	Fingerprints are not allowed on all products	Visual		√	
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				√
Deformation	Insufficient filling shall not affect the appearance of the assembly and the exposed surfaces.	Visual, feeler			√
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		√	
Insufficient filling	Insufficient filling shall not affect the appearance of the assembly and the exposed surfaces, The signature sample shall prevail.	Visual, point card		√	
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		√	
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		√	

Bubble	No bubbles are allowed	Visual		√	
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	√		
Damaged	No damage is allowed	Visual			√
Cold glue	Optical surface may not have cold glue, non- optical surface cold glue should meet the visual is not obvious.	Visual	√		
	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			√
	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 \leq 1 mm and no more than 1 area within a 50x50 mm area	Visual		√	



HERCULUX Chengdu HercuLux Photoelectric Technology Co.,Ltd

Product Approval

Approval number:

Customer:

Product: HK Matrix 6 in 1-TYPE V street lamp lens

1.02.23078 Material Code:

PN: HK-JZ-50@06-150-5050-#0-1g-6

Manufacturer: Chengdu HercuLux Photoelectric Technology Co.,Ltd



	Supplier confirmation			Client confirmation			
Proposed		DATE		Qualified□		5.475	
Project manager		DATE		Unqualified□		DATE	
Audit		DATE		Audit		DATE	
Approved		DATE		Approved		DATE	
Stamp		DATE		Stamp		DATE	

(Confirmation of acceptance by both parties must be signed and sealed)

Factory: Chengdu Shuangliu District, Iot industrial park 2 road HercuLux Photoelectric Park

Phone: 028-85887727 (801) 028-85887990 (801) Fax: 028-85887730 http://www.herculux.cn/ Sales Dept: Shenzhen Nanshan District Nanshan Cloud Valley Innovation Industrial Park Comprehensive Service Building,

TEL: 0755-2937 1541 FAX: 0755-2907 5140

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Conventional products: As a product that we continuously research and improve, under the premise of ensuring the quality and availability of the product, our company reserves the right to change the material. If the material specification and model change, without prior notice.

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- 2. Try to avoid touching the optical surface of the lens when taking the lens.
- 3. When the surface of the product is polluted, please wipe it gently with a soft cotton cloth dipped in analytically pure neutral solvent. It is forbidden to use industrial solvents (alcohol, isopropanol, acetone, ether, toluene, xylene, carbon tetrachloride, MMA monomerm, etc.) wipe.

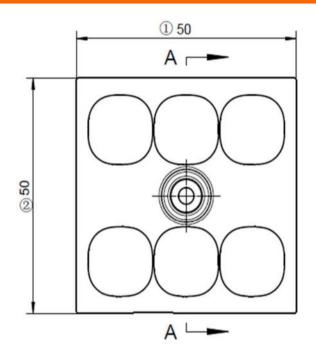


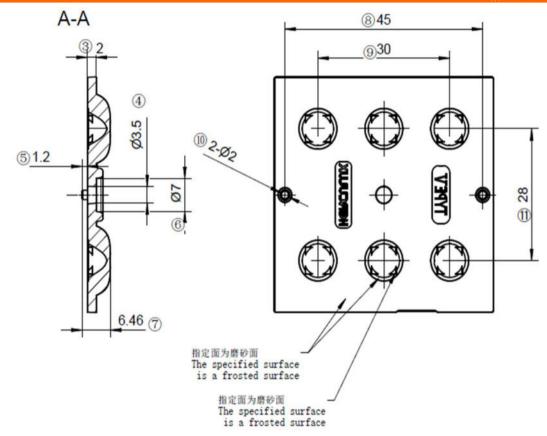
Basic product information

TEL: 0755-2937 1541 FAX: 0755-2907 5140 http://www.herculux.com/ Date updated: 2023/1/11

Product Picture:	
Size(L*W*H/Φ*H):	L:50mm*W:50mm*H : 06mm
Material:	PC
Effiency:	\
Temperature(Topr):	Material extreme temperature resistance : -40°C to +120°C long-term use temperature : -40°C to +100°C
FWHM:	150°
Matched LES:	1913/10/28
Recommended MAX power:	W







Technical remark:

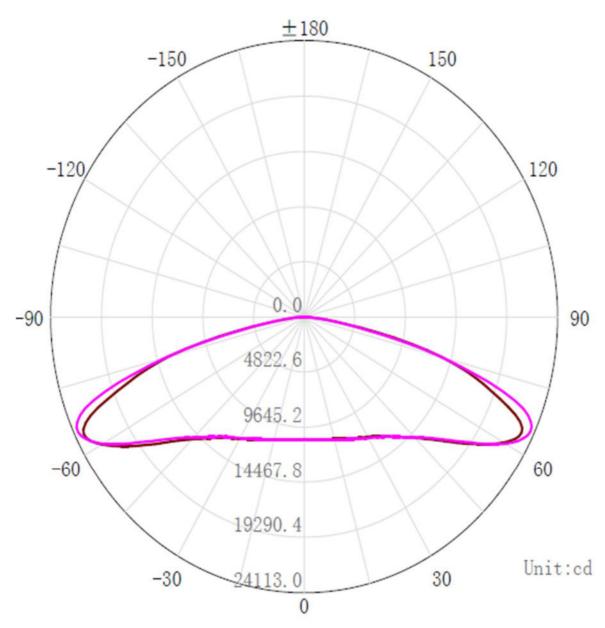
- 1. The 3D map is not indicated for rounded corners and draft angle.
- 2. The dimensional tolerances are not specified according to GB/T 14486 2008 MT5.
- 3, The surface has no flash, shrinkage, bubbles and other defects.
- *4. When the lamp adopts rubber ring for waterproofing: the roughness of the contact surface between the radiator and the rubber ring is required: Ra<3.2μm

Optio	cal desig						HK-JZ-50@06-150-5050-#0-1g-6						
ruct	ure desi				HK Matrix 6 in 1-TYPE V street lamp lens				1.02.23078				
R	eview						mber of	f drawi	qty	we	ght		
Va	idation				Material:	PC		CDHK					
~25	0 250^	~450	>	450	<u>-</u>	-	-						

MT5	Basic size	<3	3~10	10~24	24~65	65~140	140~250	250~	~450	>4!	50	-	•	•
Tolerance table	lerance val	±0.1	±0.15	±0.2	±0.35	±0.50	±0.80	±1		±2.	.0			

IES----





C Plane [50%MaxAng.][10%MaxAng.]

--- C0. 0_180. 0 : 152. 3 165. 3 --- C90. 0_270. 0 : 151. 7 164. 5



1		-			1				1		1			
			Standard size	Upper Size limit	Lower		Test result1	Test result2	Test result3	Test result4	Judg ment	Remarks		
	Length width		50				49.75	49.8	49.99	50.05				
1.Size	Position column spacin	ın	45			_	49.98	49.99	45.01	45.01		Test environment: In 20 °C -25 °C		
1.Size	Diamete position colum	ning	2				1.96	1.95	1.95	1.96		environment to achieve thermal equilibrium after the test.		
	Thickne: thickne		2				1.99	2.02	2.05	2.03		alter the test.		
				Gate s	hear ca	an not	affect the a	ppearance of	the lamp					
				See attachment "Appearance Inspection Standards"										
2.Appearance		"Ap	attachment pearance	E		1	No burr	No burr	No burr	No bu	ırr	ОК		
Quality			spection andards"			N	o stains	No stains	No stains	No sta	ins			
3.Materia	al			PC				Color	Tra	ansparent		ОК		
	Testing	LED						5050						
4.Optica	FWH	М				pre	See light	distribution co	urve					
I index	angl	e	152. 3° X151. 7°											
	K-va]	.ue				_								
	Efficie	ency	су											
	Facula	See th	ne signature	sample			,							
	ehensive ment						ļ.	Qualified						
					PC	prod	uct size cha	nges with t	emperature	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		leight e P-	,	1 0.8 0.6 0.4 0.2 0		10	20 30		Size: Size: Size: Size: Size: Size:	100mm 150mm 200mm 250mm				
									J))				

Precautions:

- 1. Please wear clean gloves during the lens assembly process to prevent the lens surface from being contaminated.
- 2. Try to avoid touching the total reflection surface when taking the lens.

 3. 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 is recommended that the upper surface temperature of the LED colloid should be less than 120 degrees.



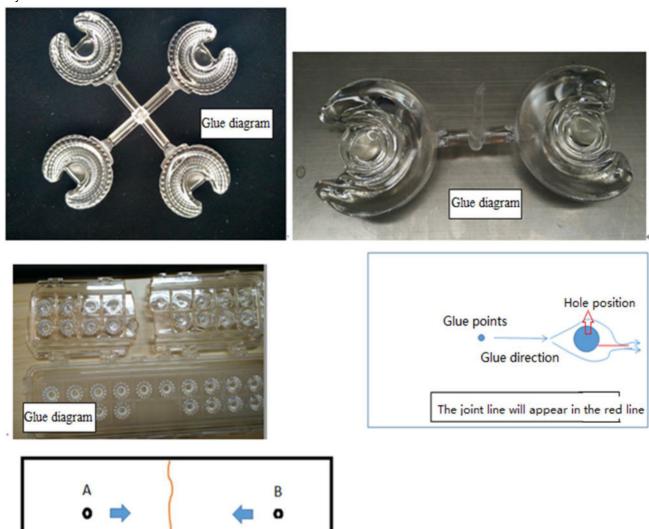
Pl	N	HK-JZ-50@06-150-5050-	#0-1g-6	Product Name	IK Matrix 6 in 1-TYPE	V stree	t lamp len			
Product	Product material				PC					
Package diagram		Single Vacuu	m package	Box	package	>				
Product	packing	24	A/box	4	Box/layer					
Product packing		14	Layer/the box	1344	A/the box					
	NO.	Material Code	Item name	Specification	Single box usage	Unit	Remarks			
	1	2. 07. 0049	Blister box	23cm*21cm	56	PCS				
Packagin	2	2. 08. 0001	PE film	25cm*27cm	56	Block				
g Materials	3	2. 06. 0005	inside the	62mm*42mm	56	Piece				
Materials	4	2. 06. 0005	inside the	62mm*70mm	1	Piece				
	5	2. 06. 0003	large clapboard	46cm*42cm	15	PCS				
	6	2. 06. 0011	large carton	48cm*44cm*37	cm 1	PCS				
Remarks	Scattered shall preva	packaging is not restricted by thi ail	is specification	, the customer ha	s the requirements of	the cus	tomer			



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.

The joint line will appear in the red line



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	H	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 atondard	Inspection equipment	Defec	t level	
restitems	Judging standard	Testing method	ample nparison visual, int card //isual, nt card, alipers	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	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			√
	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		√	
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		√	
Fingerprint	Fingerprints are not allowed on all products	Visual		√	

	i				
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				√
Deformation	Insufficient filling shall not affect the appearance of the assembly and the exposed surfaces.	Visual, feeler			√
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.	Visual, point card		√	
	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.				
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		√	
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		√	
Bubble	No bubbles are allowed	Visual		√	
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			√
Cold glue	Optical surface may not have cold glue, non- optical surface cold glue should meet the visual is not obvious.	Visual	V		
	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			√
	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 \leq 1 mm and no more than 1 area within a 50x50 mm area	Visual		√	