

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

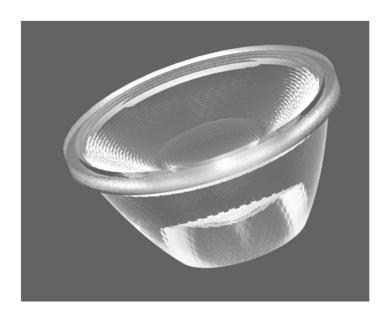
Product Approval

Approval number:

Customer:

Manufacturer: Chengdu HercuLux Photoelectric Technology Co.,Ltd

PN	Code	Product
HK-HG-25@13-15-D4-21-1g-1	1. 01. 92131	HK Dark 25@13-15° lens
HK-HG-25@13-24-D4-21-1g-1	1. 01. 92022	HK Dark 25@13-24° lens
HK-HG-25@13-36-D4-21-1g-1	1. 01. 92065	HK Dark 25@13-36° lens
HK-HG-25@13-50-D4-21-1g-1	1.01.92005	HK Dark 25@13-50° lens



	Supplier confirmation		Client confirmation					
Proposed	DATE	(Qualified□					
Project manager	DATE	U	Jnqualified□		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, lot industrial park 2 road HercuLux Photoelectric Park

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

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

*Approval In duplicate, for both supplier and customer.

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.

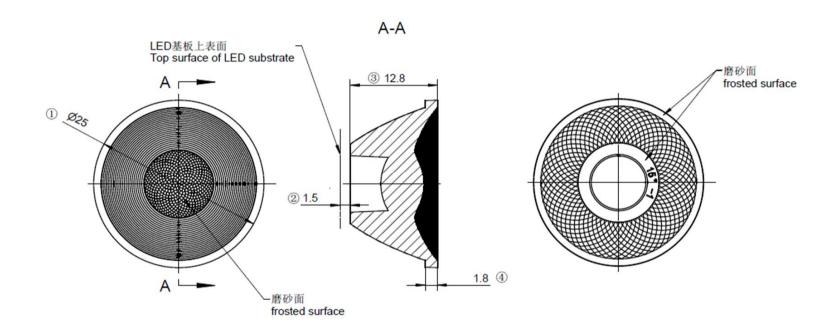


HERCULUX Product Approval

TEL: 0755-2937 1541 Date updated: 2024/10/8 FAX: 0755-2907 5140 http://www.herculux.com/

Product Picture:	
PN:	HK-HG-25@13-15-D4-21-1g-1
Size(L*W*H/Φ*H):	Ф25mm*H12.8mm
Material:	PMMA
Effiency:	\
Temperature(Topr):	Material extreme temperature resistance: -40°C to +100°C long-term use temperature: -40°C to +80°C
FWHM:	15°、24°、36°、50°
Recommended maximum power:	8W



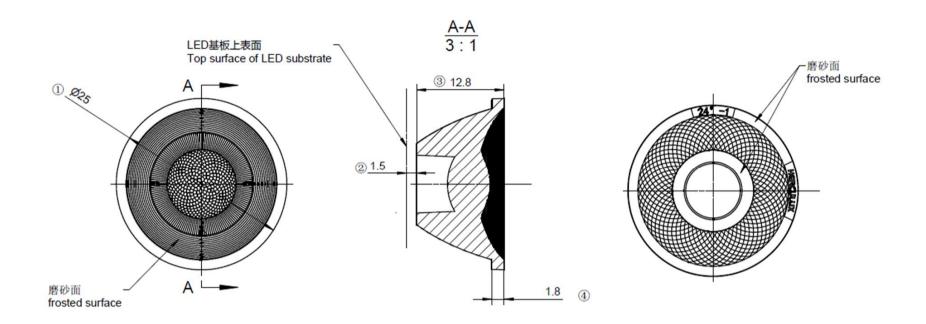


- 1. The 3D map is not indicated for rounded corners and draft angle.
- 2. The dimensional tolerances are not specified according to GB/T 14486 2008 MT5.
- 3, The surface has no flash, shrinkage, bubbles and other defects.

Ор	tical	design							HK-HG-25@13-15-D4-21-1g-1						
itru	structure desig						HK Dark	25@13-15°lens			1.01.92131				
	Revi	eview							umber o	f drawin	qty	we	ight		
١	Validation				Material:	PMMA	CDHK								

MT5	Basic size	<3	3∼10	24~65	65~140	140~250	250~450	>450	•
Tolerance table (mm)	olerance valu	±0.1	±0.15	±0.35	±0.50	±0.80	±1.2	±2.0	



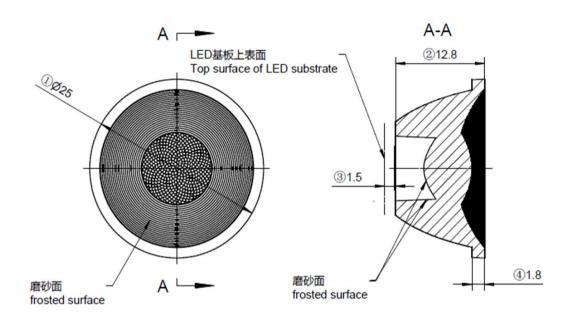


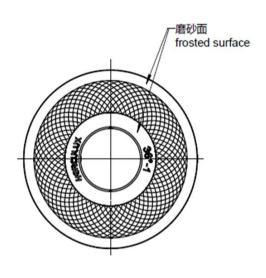
- 1. The 3D map is not indicated for rounded corners and draft angle.
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- 3, The surface has no flash, shrinkage, bubbles and other defects.

Optical design							HK-HG-25@13-24-D4-21-1g-1						
tructure desig	I				HK Dark	25@13-24°lens			1.01.92022				
Review	Review						umber o	f drawin	qty	we	ight		
Validation				Material: PMMA CDHK									
250 250	450	,	450										

										<u> </u>
MT5	Basic size	<3	3~10	24~65	65~140	140~250	250~	450	>450	450
Tolerance table (mm)	olerance valu	±0.1	±0.15	±0.35	±0.50	±0.80	±1.2	2	±2.0	2.0





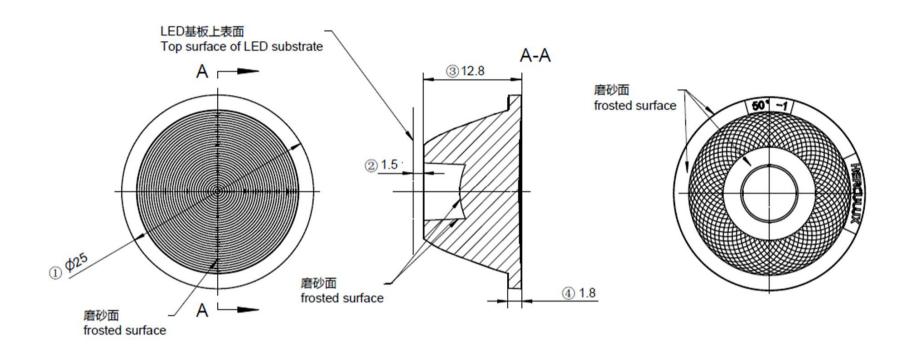


- 1. The 3D map is not indicated for rounded corners and draft angle.
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- 3, The surface has no flash, shrinkage, bubbles and other defects.

Optical design	ı						HK-HG-25@13-36-D4-21-1g-1				
tructure desig	0			HK Dark	25@13-36°lens			1.01.92065			
Review						umber o	f drawin	qty	we	ight	
Validation			Material:	Material: PMMA			СДНК				

MT5 Tolerance	Basic size	<3	3~10	24~65	65~140	140~250	250~450	>450
	olerance valu	±0.1	±0.15	±0.35	±0.50	±0.80	±1.2	±2.0



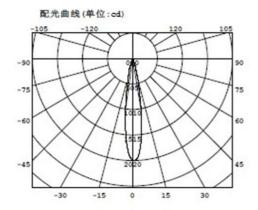


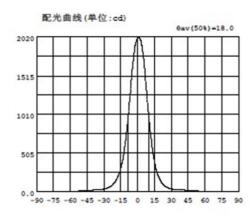
- 1. The 3D map is not indicated for rounded corners and draft angle.
- 2. The dimensional tolerances are not specified according to GB/T 14486 2008 MT5.
- 3, The surface has no flash, shrinkage, bubbles and other defects.

Optical design	1						HK-HG-25@13-50-D4-21-1g-1						
tructure desig	51			HK Dark	25@13-50°lens			1.01.92005					
Review						umber o	f drawin	qty	we	ight			
Validation			Material:	PMMA			CDHK						

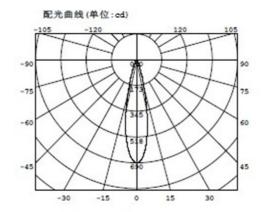
MT5	Basic size	<3	3∼10	24~65	65~140	140~250	250~45		450
Tolerance table (mm)	olerance valu	±0.1	±0.15	±0.35	±0.50	±0.80	±1.2	±2	2.0

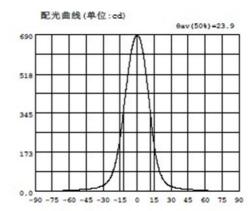




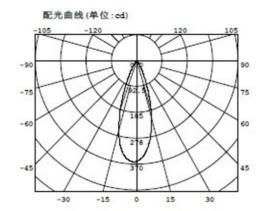


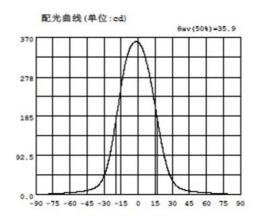




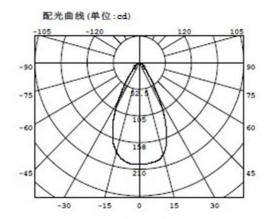


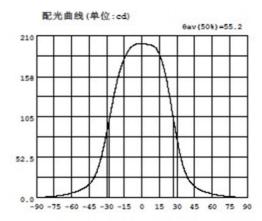














		St	tandard size	Upper Size limit	Lower size limit	Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks				
	diamet	er	25			24.9	24.91	24.93	24.92						
1.Size	heigh	t	12.8			12.73	12.7	12.75	12.7		Test environment: In 20 °C -25 °C environment to achieve thermal equilibrium after the test.				
	thickne	ess	1.8			1.75	1.74	1.76	1.74		test.				
				Gate shear can not affect the appearance of the lamp See attachment "Appearance Inspection Standards"											
			-	See	attachment	t "Appearan	ce Inspecti	on Standar	ds"						
2.Appear	rance	Se attach "Appea	nment	E	1	No burr	No burr	No burr	No bu	rr	OK				
Quality		Inspe Stand	ection		N	o stains	No stains	No stains	No stai	ns					
3.Materia	al			PMM	4		Color	Tra	nsparent		OK				
	Testing I	.ED					D4								
4.Optica	and th life.	e actual The Darl	condition k series eycomb	ns of the us lenses are re on top of th	se environn designed v ecommend e lens, it is	nent, the ler vith a cross to add a ho	ns should b over design oneycomb t erheat the h	e fully teste n for good a to the lens. noneycomb	d and testo anti-glare e	ed to perfect,	ability of the lamp prevent the lens so we do not output at the focal				
l index	FWH	Л				See lig	e light distribution curve								
	angle	;		17-19		18	17. 9	18. 1	18. 2						
	K-val	ue													
	Efficie	ncy	85% (w	hite scaft	fold)	89%	90%	90%	91%						
	Facula	See the	signatu	re sample		•									
	ehensive ment		1				Qı	ualified			_				
Caliper 2 Height G Microsco Thick Ga Gauge E 2、Amb the size o	Number: V D-Quadra auge M-To pe P-Need auge R-Ra	tic H- pol dle T- dius rature o uct refer	n	Length change (mm	ı es 0.8 —	1A product	t size chan	ages with t		Siz Siz Siz Siz Siz	ee: 50mm ee: 100mm ee: 150mm ee: 200mm ee: 250mm ee: 300mm				

- 1、Wear clean gloves during lens assembly to prevent contamination of the lens surface.
- 2、Take the lens try to avoid touching the total reflection surface.
- 3、When the lens surface contamination, you can only gently wipe with soft cotton sticky neat neutral solvent, not allowed to
- wipe with industrial solvents.

 4. The working temperature of the lens should be within the temperature limit of the lens material. Exceeding the temperature limit will cause damage to the lens and affect the service life of the lens.



		Standa size		Lower size limit	Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks	
	diamet	er 25			24.97	24.92	24.97	24.99		T-4	
1.Size	heigh	t 12.8	,		12.72	12.77	12.74	12.81		Test environment: In 20 °C -25 °C environment to achieve thermal equilibrium after the test.	
	thickne	ess 1.8			1.74	1.79	1.77	1.76		1631.	
			Gate	shear can	not affect th	ne appearar	nce of the la	amp			
			See	attachmen	it "Appearar	ice Inspecti	on Standar	ds"			
2.Appear	rance	See attachmer "Appearan			No burr	No burr	No burr	No bu	rr	OK	
Quality	Insp		spection andards"		No stains	No stains No stains		No stai	ns		
3.Materia			PMM	A		Color	Tra	nsparent		OK	
	Testing I	_ED				D4					
4.Optica I index		ut a honeyco	conditions of the use environment, the lens should be fully tested and tested to prevent the lens it series lenses are designed with a cross over design for good anti-glare effect, so we do not recommend to add a honeycomb to the lens. eycomb on top of the lens, it is easy to overheat the honeycomb due to the high output at the focal point of the Dark series, which may cause the risk of melting of the lens. See light distribution curve								
	angle		22-26		24	23. 9	22. 8	23			
	K-val				1.49	1. 51			_		
	Efficie		(white scaf	90%	90%	91%	91%	$\overline{}$			
	Facula	See the sign	ature sample		,	1					
	ehensive ment				l	Qı	ıalified				

- 1、Wear clean gloves during lens assembly to prevent contamination of the lens surface.
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- limit will cause damage to the lens and affect the service life of the lens.



	Standard size	Upper Size limit	Lower size limi	Test t result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks	
diamete	er 25			24.93	24.91	24.91	24.92		T-4	
height	12.8			12.74	12.73	12.74	12.74		Test environment: In 20 °C -25 °C environment to achieve thermal equilibrium after the test.	
thickne	ss 1.8			1.76	1.8	1.78	1.78		test.	
Gate shear can not affect the appearance of the lamp										
		See	attachme	nt "Appearan	ice Inspecti	on Standar	ds"			
ance	See attachment "Appearance	See attachment		No burr	No burr	No burr	No bu	rr	OK	
Quality				No stains	No stains	No stains	No stains		-	
ıl		PMMA			Color	Tra	nsparent		OK	
Testing LED					D4					
life. If you pu	life.The Dark series lenses are designed with a cross over design for good anti-glare effect, so we do not recommend to add a honeycomb to the lens. ou put a honeycomb on top of the lens, it is easy to overheat the honeycomb due to the high output at the point of the Dark series, which may cause the risk of melting of the lens.							so we do not		
		39-37		- `	<u> </u>		34 2	_		
		3Z 31		33. 3	31	33.3	34. 2		$\overline{}$	
		85% (white scaffold)								
I	11Cy 05%	will te star	Fold)	88%	Q7%	87 50%	86 50%		$\overline{}$	
i acuia	Facula See the signature sample									
hensive	See the signat	ure sample	fold)	88%	87%	87. 50%	86. 50%			
hensive ment	See the signat	ure sample	fold)	88%	1	87. 50% ualified	86. 50%			
	height thickne ance Testing L The record to the so and the life. I If you put FWHN angle K-value	diameter 25 height 12.8 thickness 1.8 See attachment "Appearance Inspection Standards" all Testing LED The recommended size to the source of the tes and the actual condition life. The Dark series are life. The Dark	diameter 25 height 12.8 thickness 1.8 Gate See attachment "Appearance Inspection Standards" Testing LED The recommended size and power result to the source of the test, if it is requested and the actual conditions of the use life. The Dark series lenses are result from the point of the Dark series lenses are result from the point of the Dark series lenses are result from the point of the Dark series lenses are result from the point of the Dark series lenses are result from the	diameter 25 height 12.8 thickness 1.8 Gate shear cares See attachment "Appearance Inspection Standards" Testing LED The recommended size and power rating of the tothe source of the test, if it is required to be and the actual conditions of the use environ life. The Dark series lenses are designed recommended to the point of the Dark series, it point of the Dark series it po	height 12.8 1.74 thickness 1.8 1.76 Gate shear can not affect the See attachment "Appearance Inspection Standards" PMMA Testing LED The recommended size and power rating of the LED light to the source of the test, if it is required to be out of range and the actual conditions of the use environment, the left life. The Dark series lenses are designed with a cross recommend to add a heart of the park series, which may compoint of the Dark series, which may compose the park series are designed with a cross recommend to add a heart of the Dark series, which may compoint of the Dark series, which may compoint of the Dark series, which may compoint of the Dark series, which may compose the park series are designed with a cross recommend to add a heart of the Dark series, which may compoint of the Dark series, which may compose the park series are designed with a cross recommend to add a heart of the Dark series, which may compose the park series are designed with a cross recommend to add a heart of the Dark series are designed with a cross recommend to add a heart of the Dark series are designed with a cross recommend to add a heart of the Dark series are designed with a cross recommend to add a heart of the Dark series are designed with a cross recommend to add a heart of the Dark series are designed with a cross recommend to add a heart of the Dark series are designed with a cross recommend to add a heart of the Dark series are designed with a cross recommend to add a heart of the Dark series are designed with a cross recommend to add a heart of the Dark series are designed with a cross recommend to add a heart of the Dark series are designed with a cross recommend to add a heart of the Dark series are designed with a cross recommend to add a heart of the Dark series are designed w	diameter 25	diameter 25 24.93 24.91 24.91 height 12.8 12.74 12.73 12.74 thickness 1.8 1.76 1.8 1.76 1.8 1.78 Gate shear can not affect the appearance of the lesse attachment "Appearance Inspection Standards" No burr No burr No burr No burr No burr No stains No stains No stains No stains No stains II PMMA Color Trainer Terecommended size and power rating of the LED light source recommended to the source of the test, if it is required to be out of range. According to the heat and the actual conditions of the use environment, the lens should be fully tested iffe. The Dark series lenses are designed with a cross over design for good a recommend to add a honeycomb to the lens. If you put a honeycomb on top of the lens, it is easy to overheat the honeycomb point of the Dark series, which may cause the risk of meltin FWHM See light distribution curve angle 32-37 33.5 34 35.9	size Size limit size limit result1 result2 result3 result4 diameter 25 24.93 24.91 24.91 24.92 height 12.8 12.74 12.73 12.74 12.74 thickness 1.8 1.76 1.8 1.78 1.78 Gate shear can not affect the appearance of the lamp See attachment "Appearance Inspection Standards" No burr No stains No stains No stains No stains No stains No stains Inspection Standards" Testing LED D4 The recommended size and power rating of the LED light source recommended for this len to the source of the test, if it is required to be out of range. According to the heat dissipation and the actual conditions of the use environment, the lens should be fully tested and test life. The Dark series lenses are designed with a cross over design for good anti-glare or recommend to add a honeycomb to the lens. If you put a honeycomb on top of the lens, it is easy to overheat the honeycomb due to the point of the Dark series, which may cause the risk of melting of the lens angle 32-37 33.5 34 35.9 34.2	Size Size Iest result2 result3 result4 gme result4 result4 result2 result3 result4 result4	

- 1、Wear clean gloves during lens assembly to prevent contamination of the lens surface.
- 2、Take the lens try to avoid touching the total reflection surface.
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- limit will cause damage to the lens and affect the service life of the lens.



		Stand size		Lower size limit	Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks	
	diamet	er 25			24.96	25	24.98	24.97		Test environment: In	
1.Size	heigh	t 12.8	3		12.75	12.77	12.78	12.75		20 °C -25 °C environment to achieve thermal equilibrium after the test.	
	thickne	ess 1.8			1.79	1.8	1.79	1.78		test.	
	Gate shear can not affect the appearance of the lamp										
			See	attachmen	t "Appearar	ice Inspecti	on Standar	ds"			
2.Appear	ance	See attachme "Appearan			No burr	No burr	No burr	No bu	rr	OK	
Quality		Inspectio Standards	n	N	lo stains	No stains	No stains	stains No stains		OIX.	
3.Materia	ıl		PMM	IA		Color	Tra	nsparent		OK	
	Testing I	_ED				D4					
4.Optica I index	life.	The Dark se	ries lenses are ı	e designed recommend the lens, it is	with a cross d to add a he s easy to ove which may c	over desigoneycomb the heat th	n for good a to the lens. noneycomb sk of meltin	anti-glare e	effect,	prevent the lens so we do not output at the focal	
			50-60		· `	54. 9	1	E4 E			
	angle K-val		50-60		55	54. 9	54	54. 5	_	=	
			00% / 114		84%	0.5%	04.20%	05 500	_	$\overline{}$	
	Efficie					85%	84. 30%	85. 50%			
Compre	Facula hensive	See the sign	nature sample								
	ment					Qı	ualified				
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			Lengt chang (mn	h es 0.8 —	//A produc	t size chan	ges with t		Siz	ze: 50mm ze: 100mm ze: 150mm ze: 200mm	

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PN		HK-HG-25@13-15-D4-21-1g-1		Product Name	HK Dark 25@13-15°lens		ens
Product	material	PMMA		Customer			
Package diagram		Single Va	cuum packa	ge Box	package	>	>
Product	packing	44	A/ Box	4	Box/Layer		
	. 3	18	Layer/Box	3168	A/ Carton		
	NO.	Part No	Part name	Size	Dosage	Unit	Remarks
	1	2. 07. 0093	Blister box	23cm*21cm	72	BAG	
Dooleagin	2	2. 08. 0001	PE film	30cm*30cm	72	PCS	
Packagin g Materials	3	2. 06. 0005	Reel label paper	6.2cm*8cm	72	PCS	
Materials	4	2. 06. 0005	Box label paper	6.2cm*9.2cm	1	PCS	
	5	2. 06. 0003	big plate	46.8cm*42.8cm	19	PCS	
	6	2. 06. 0011	big carton	46.8cm*42.8cm*36 m	oc 1	PCS	
Remarks		The loose packing is not subject	ct to this specif	ication. Customer's	requirements shall	orevail	



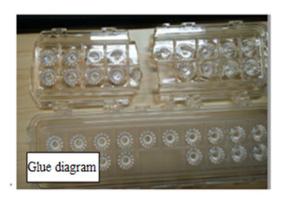
Special notice

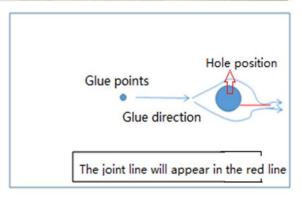
When gule pass through holes, columns and other structures, or part of the thin structure, will form a weld line. The product which uses multi-point injection welding line will appear because of the combination of sol, as shown below:

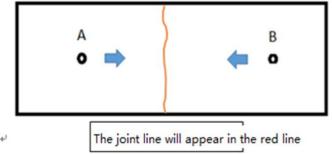
Syntneti











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	Unit	Code	Code	Unit
	description			description	
N	Amount/pcs	pcs	D	Diameter	mm
L	Length	mm	Ħ	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	ludging standard	Inspection equipment	Defec	Defect level			
i est items	Judging standard	Testing method	MI	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			√		

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	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 ≤ 1 mm and no more than 1 area within a 50x50 mm area	Visual		√	