

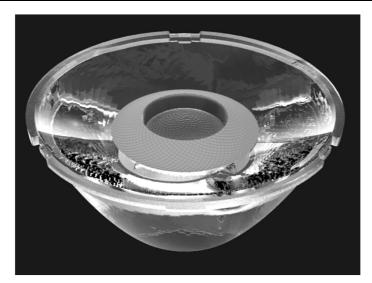
# HERCULUX Chengdu HercuLux Photoelectric 恒坤光电 Technology Co.,Ltd Product Approval

Approval number:

Customer:

Manufacturer: Chengdu HercuLux Photoelectric Technology Co.,Ltd

PN	Code	Product
HK-HG-75@35-15-D12-20-1g-1	1. 01. 92024	HK Dark 75@35-15° lens
HK-HG-75@35-24-D14-21-1g-1	1. 01. 92025	HK Dark 75@35-24° lens
HK-HG-75@35-36-D14-21-1g-1	1.01.92068	HK Dark 75@35-36° lens
HK-HG-75@35-50-D14-21-1g-1	1.01.92080	HK Dark 75@35-50° lens



	Supplier co	onfirmation		Client cor	nfirmation	
Proposed		DATE	Qualified□			
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, 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, 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 Basic product information

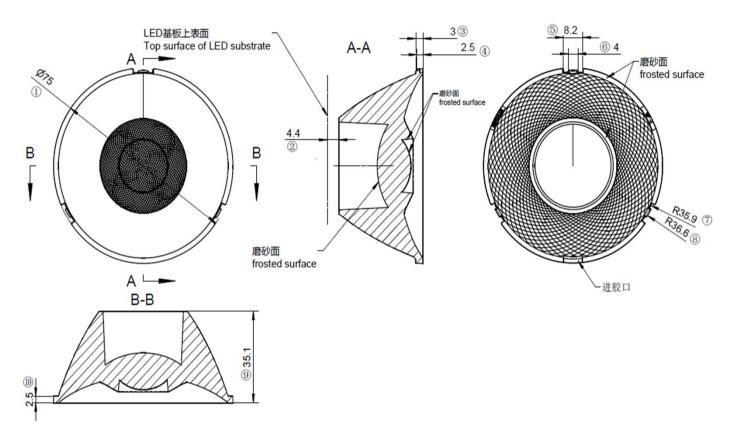
Date updated:

2024/10/10

http://www.herculux.com/

Product Picture:	
Size(L*W*H/Φ*H):	Ф75mm*H35.1mm
Material:	PMMA
Effiency:	\
Effiency: Temperature(Topr):	\ Material extreme temperature resistance: -40°C to +100°C long-term use temperature: -40°C to +80°C
	Material extreme temperature resistance: -40°C to +100°C
Temperature(Topr):	Material extreme temperature resistance: -40°C to +100°C long-term use temperature: -40°C to +80°C



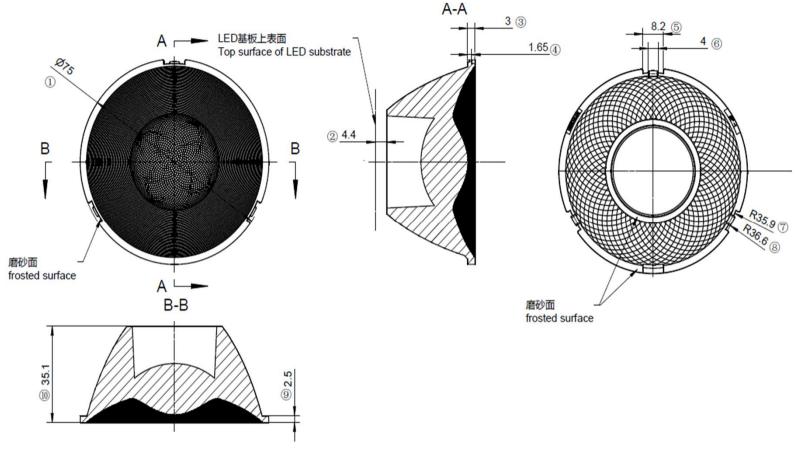


- 1. The 3D map is not indicated for rounded corners and draft angle.
- 2. The dimensional tolerances are not specified according to GB/T 14486 2008 MT5.
- 3, The surface has no flash, shrinkage, bubbles and other defects.
- \*4. When the lamp adopts rubber ring for waterproofing: the roughness of the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

	Optical de	esign						HK-	HG-75	@35-15-D12	2-20-1	g-1
	Structure (	desigr				HK Dark 1	75@35-15º lens			1.01.92024		
	Revie							mber of	f drawi	qty	wei	ight
	Revie	w										
	Validat	ion				Material:	PMMA			CDHK		
_	~250 2	250~	~450	>/	150	-						

MT5	Basic size	<3	3∼10	10~24	24~65	65~140	140~250	250~	450	>45	50
Tolerance table	lerance val	±0.1	±0.15	±0.2	±0.35	±0.50	±0.80	±1.		±2.0	0



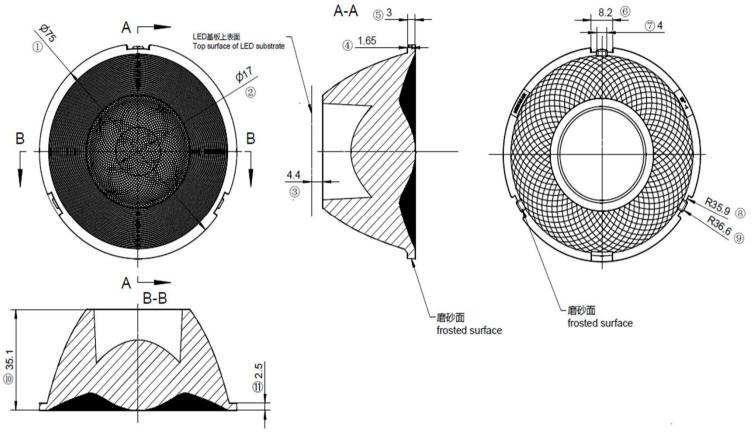


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Optical	design						HK	-HG-75	@35-24-D14	1-21-1	g-1
Structur	e desigr				HK Dark 7	75@35-24º lens			1.01.92025		
Rev	iew				1		mber o	f drawi	qty	wei	ight
Valida	ation			·	Material:	PMMA	·		CDHK		
.250	2500	450	_	150							

MT5	Basic size	<3	3~10	10~24	24~65	65~140	140~250	250~450	>4!
Tolerance table	lerance val	±0.1	±0.15	±0.2	±0.35	±0.50	±0.80	±1.2	±2.



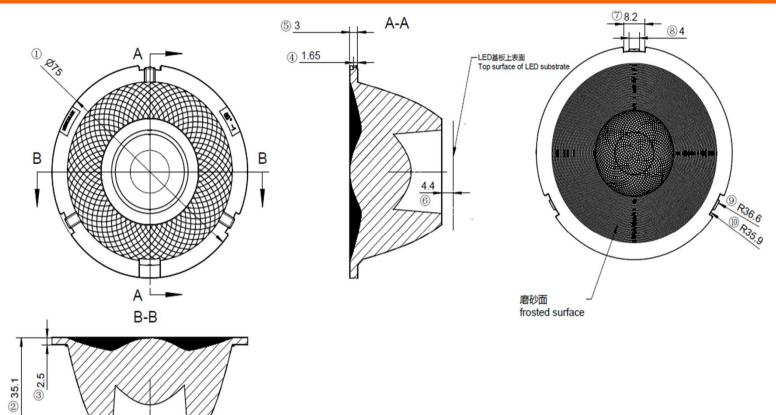


- 1. The 3D map is not indicated for rounded corners and draft angle.
- 2. The dimensional tolerances are not specified according to GB/T 14486 2008 MT5.
- 3, The surface has no flash, shrinkage, bubbles and other defects.
- \*4. When the lamp adopts rubber ring for waterproofing: the roughness of the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

Optical design					HK-	-HG-75	@35-36-D1	.4-21-1	g-1
Structure desigr			HK Dark 7	75@35-36º lens			1.01.92068		
Review					mber o	f drawi	qty	we	ight
Validation			Material:	PMMA			CDHK		
	•				-				

MT5	Basic size	<3	3∼10	10~24	24~65	65~140	140~250	250~4	50 >	450
Tolerance table	lerance val	±0.1	±0.15	±0.2	±0.35	±0.50	±0.80	±1.2	±2	2.0



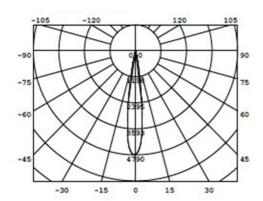


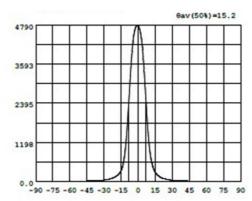
- 1. The 3D map is not indicated for rounded corners and draft angle.
- 2. The dimensional tolerances are not specified according to GB/T 14486 2008 MT5.
- 3, The surface has no flash, shrinkage, bubbles and other defects.
- \*4. When the lamp adopts rubber ring for waterproofing: the roughness of the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

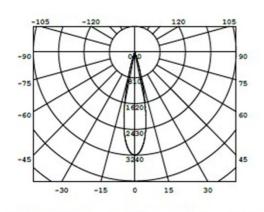
	Optical	design						HK-	-HG-75	@35-50-D14	1-21-1	g-1
	Structure	e desigr				HK Dark 1	75@35-50º lens			1.01.92080		
	D							mber o	f drawi	qty	we	ight
	Revi	iew										
	Valida	ation				Material:	PMMA			CDHK		
_	~250	250~	~450	>/	150			-				

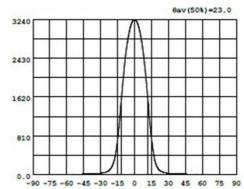
MT5	Basic size	<3	3~10	10~24	24~65	65~140	140~250	250~4	50 >	450
Tolerance table	lerance val	±0.1	±0.15	±0.2	±0.35	±0.50	±0.80	±1.2	±	2.0



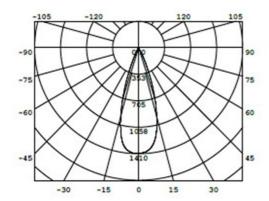


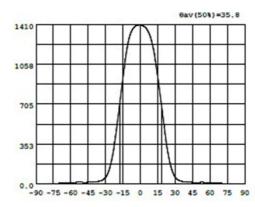




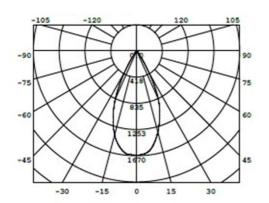


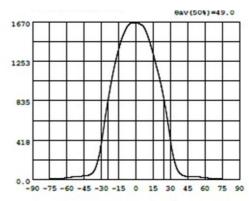














			Standard size	Upper Size limit	Low size		Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks
	diam	eter	75			\	74.94	75.06	74.99	74.91		Test environment : In 20 °C -
1.Size height  thicknes s  2.Appearance Quality  Testing LE The size al should cor range. Ac environmer are design  If you put a at index  FWHM angle K-value (CD/			35.1			\	35.13	35.06	35.01	35.1		25 °C environment to achieve thermal equilibrium after the
			2.5			\	2.6	2.59	2.58	2.57		
		•		Gate sh	near ca	an no	t affect the	appearanc	e of the lan	np		
				See at	tachm	ent "/	Appearanc	e Inspection	Standards	s"		
2.Appeara	nce	atta	See chment	E		١	lo burr	No burr	No burr	No bu	ırr	ОК
Quality		Ins	pection ndards"			N	o stains	No stains	No stains	No sta	ins	OK
3.Material				PMM	A			Color	Tra	nsparent		ОК
	Tes	sting L	ED					D12、D14				
	The sho	ould co	onform to coording t	the parame o the heat o	eters in dissipa	the pation	oroduct ba	sic informat of the lamp	ion table. if and the act	it is requir ual conditi	ed to l	be out of the use
	The sho ral envi are	ould co nge. A ronme e desig ou put a	onform to coording to ent, the ler uned with a honeyco	the parame o the heat on is should be a cross ove mb on top point of the	eters in dissipa e fully or design of the e Dark	the pation teste gn for hor lens, serie	oroduct base capability of d and teste good anti- neycomb to it is easy to	sic informat of the lamp ed to prever glare effect the lens.	ion table. if and the act at the lens li a, so we do the honeyc	it is requir ual condition ife.The Da not recom omb due to	red to lons of rk seri mend	be out of the use les lenses to add a
	The sho ral envi are If yo	ould conge. A ronme design put a a	onform to coording to ent, the ler uned with a honeyco	the parame the heat of the heat of s should be a cross ove on top	eters in dissipa e fully or design of the e Dark	the pation teste gn for hor lens, serie	oroduct base capability of d and teste good anti- neycomb to it is easy to	sic informat of the lamp and ed to prever glare effect the lens. o overheat	ion table. if and the act at the lens li a, so we do the honeyc	it is requir ual condition ife.The Da not recom omb due to	red to lons of rk seri mend	be out of the use les lenses to add a
index	The short rail environment are	ould conge. A ronme de designation put a roman de roman d	onform to ccording tent, the ler and with a a honeyco the focal	the parame o the heat on is should be a cross ove mb on top point of the	eters in dissipa e fully or design of the e Dark	the pation teste gn for hor lens, serie	oroduct ba- capability of d and tester good anti- eycomb to it is easy to s, which m	sic information of the lamp and to prever aglare effect the lens. The lamp cause	ion table. if and the act at the lens li s, so we do the honeyche risk of m	it is requir ual conditi ife.The Da not recom omb due to elting of th	red to lons of rk seri mend	be out of the use les lenses to add a
index	The short rain are lift you	ould conge. A ronme design put a a few design put a few d	onform to coording to coording the coording to coording the coording to coordinate the coordinate to coordinate the coordinate	the parame o the heat on is should be a cross ove mb on top point of the	eters in dissipa e fully or design of the e Dark	the pation teste gn for hor lens, serie	product bases and tested and tested good anti- elegent good anti- elegent to it is easy to es, which m	sic information in the lamp and to prever aglare effect to the lens. The lamp cause the lamp cau	ion table. if and the act the lens lift, so we do the honeyone risk of m	it is requir ual conditi- ife.The Da not recom omb due to elting of the	red to lons of rk seri mend	be out of the use les lenses to add a
index	The shoral rain are lifty of F	ould conge. A fronme e design put a fronme e design put a from put a front put	onform to coording that, the ler inned with a honeycoording the focal See	the parame o the heat on is should be a cross ove mb on top point of the	eters in dissipa e fully or design of the e Dark	the pation teste gn for hor lens, serie	product bacapability of d and tester of good anti-eycomb to to it is easy the service of the ser	sic information in the lamp and to prever aglare effect to the lens. The lamp cause the lamp cau	ion table. if and the act to the lens line, so we do the honeyone risk of m	it is requir ual conditi- ife.The Da not recom omb due to elting of the	red to lons of rk seri mend	be out of the use les lenses to add a
index	Appearance attach "Appear Inspection of the size and should company and environment are designed index at the size and the size and should company and the size and size and the size and s	onform to coording to the coording to the coording to the coording to the coordinate to the co	the parame o the heat on is should be a cross ove mb on top point of the	eters in dissipa e fully or design of the e Dark	the pation teste gn for hor lens, serie	product bacapability of d and tester of good anti-eycomb to to it is easy the service of the ser	sic information of the lamp and to prever against effect of the lens. The overheat may cause the second of the lens of the len	ion table. if and the act to the lens line, so we do the honeyone risk of m	it is requir ual conditi- ife.The Da not recom omb due to elting of the	red to lons of rk seri mend	be out of the use les lenses to add a	

- 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.



			Standard size	Upper Size limit	Lov size		Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks	
	diameter		75			\	75.08	74.89	75.01	74.93		Test environment	
1.Size	hei	ght	35.1			\	35.09	35.1	35.06	35.1		: In 20 °C - 25 °C environment to achieve thermal equilibrium	
	thic	knes	2.5			\	2.61	2.63	2.61	2.57		after the test.	
		•		Gate shear can not affect the appearance of the lamp									
				See at	tachm	ent "	Appearanc	e Inspectio	n Standard:	s"			
2.Appeara	nce		See achment bearance	nent		No burr		No burr	No burr	No bu	ırr	ОК	
Quality		Ins	pection ndards"	_	E		o stains	No stains	No stains	No stains No stains		OK	
3.Material				PMMA			Color	Transparent OK					
	Tes	sting L	ED					D12、D14					
4.Optical index	If yo	e desiç ou put	gned with a a honeyco t the focal	ne lens should be fully tested and tested to prevent the lens life. The Dark series le with a cross over design for good anti-glare effect, so we do not recommend to ach honeycomb to the lens.  neycomb on top of the lens, it is easy to overheat the honeycomb due to the high of focal point of the Dark series, which may cause the risk of melting of the lens.  See light distribution curve							to add a		
		angle					23.0°	22. 8°	23°	22. 7°			
	K-val	ue (Cl	D/LM			5. 90	5. 80	5. 90	6, 00		$\overline{}$		
		ficiend	_		$\overline{}$	_						$\overline{}$	
	ı	acula	1				See the	e signature	sample				
Comprehe	ensive	judgr	ment	Qualified									
Remarks:	umbe	r: V-		Length changes 0.		IA pr	oduct size	e changes	with temp	erature 1		nm.	
Vernier Ca Quadratic				( <b>mm)</b> 0.						Size			
Gauge M-Tool			_	0.				W W		Size	: 150	mm	
Microscope P-Needle T- Thick Gauge R-Radius				0. 0.	.4					<del></del> Size			
Gauge E-Visual.  2、 Ambient temperature			ure		.3					→ Size			
on the size of the product			luct	0.				+		Size	: 300	mm	
refer to the table on the right			ie		0		10	20 30	40 (°C	:)			
										•			

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

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- 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.



			Standard size	Upper Size limit		wer limit	Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks		
	diameter		75			\	74.99	74.94	74.95	74.97		Test environment : In 20 °C -		
1.Size	hei	ght	35.1			\	35.1	35.07	35.09	35.14		25 °C environment to achieve thermal equilibrium		
		knes	2.5				2.62	2.61	2.57	2.6		after the test.		
				Gate sh	near c	an no	t affect the	appearanc	e of the lan	np				
				See attachment "Appearance Inspection Standards"										
2.Appeara	nce	See attachment		E			No burr	No burr	No burr	No bu	rr	ОК		
Quality		Ins	earance pection ndards"	_		Z	o stains	No stains	No stains	No stai	ns	OK		
3.Material				PMMA			Color	Transparent OK						
	Tes	sting L	ED					D12、D14						
4.Optical index	envi	ronme designut a	ent, the ler gned with a a honeyco t the focal	is should be a cross ove imb on top	e fully r desi of the e Dark	teste gn for hor lens, serie	d and tester good anti- neycomb to it is easy t	of the lamp and to prever a splare effect of the lens. The overheat and cause the splane of the lens and cause the splane of the lens and the splane of the lens and the lens are the splane of the lens are the lens	nt the lens li t, so we do the honeyc	ife.The Dai not recomi omb due to	rk seri mend o the h	es lenses to add a nigh output		
		angle					35.8°	36. 3°	35.7°	36.4°		$\overline{}$		
	K-val	ue (CE	D/LM			_	2.60	2. 50	2.60	2. 50		$\overline{}$		
	Et	ficienc	у									$\overline{}$		
	ı	acula		See the signature sample										
Comprehe	ensive	judgn	nent					Qualified						
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			ure uct	Lengti chango (mm	n es 0.8	3 7	IA produc	t size chan	ages with t		Size: Size: Size: Size:	50mm 100mm 150mm 200mm 250mm 300mm		

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			Standard size	Upper Size limit		wer limit	Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks		
	diameter		75			\	75.05	74.99	75.03	75		Test environment : In 20 °C -		
1.Size	hei	ght	35.1			\	35.12	35.04	35.06	34.97		25 °C environment to achieve thermal equilibrium		
		knes s	2.5				2.69	2.68	2.66	2.65		after the test.		
				Gate sl	near c	an no	t affect the	appearanc	e of the lan	np		•		
				See attachment "Appearance Inspection Standards"										
2.Appeara	nce		See achment bearance			١	No burr	No burr	No burr	No burr		ОК		
Quality		Ins	pection ndards"	on		No stains		No stains	No stains	No stains		0		
3.Material				РММА			Color	Transparent OK						
	Tes	sting L	ED					D12、D14						
4.Optical index	envi are	ironme e desiç ou put	ent, the le gned with a honeyc t the foca	to the heat ns should b a cross ove omb on top I point of the light distrib	e fully or desi of the	teste gn for hor lens, serie	d and tester good anti- neycomb to it is easy t	ed to prever glare effect the lens. o overheat	nt the lens li t, so we do the honeyc	ife.The Dai not recomi omb due to	rk seri mend o the h	es lenses to add a nigh output		
		angle					49.2°	49.0°	48.4°	49.0°		$\overline{}$		
	K-val	ue (Cl	D/LM			_	1.50	1.50	1.60	1.50		$\overline{}$		
	Et	fficien	су			_						$\overline{}$		
	ı	Facula	ı	See the signature sample										
Comprehe	ensive	judgr	ment	Qualified										
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			s ture fuct	Lengti chang (mm	0.8 0.7 0.6 0.5 0.4 0.3 0.2	3 7	IA produc	t size chan	ages with t		Size: Size: Size: Size:	50mm 100mm 150mm 200mm 250mm 300mm		
right						0	10	20	30					

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PN		HK-HG-75@35-15-D12-	Product Name							
Product	material	РММА								
Package diagram		Single Va	cuum packa	ge Bo	ox package					
Product	packing	6	A/ Box	4	pcs/Layer					
		4	Layer/Box	96	A/ Carton					
	NO.	Part No	Part name	Size	Dosage	Unit	Remarks			
	1	2. 07. 0068	Blister box	23cm*21cm	16	BAG				
Packagin	2	2. 08. 0001	PE film	30cm*30cm	16	PCS				
g Materials	3	2. 06. 0005	Reel label paper	6.2cm*8cm	16	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	5	PCS				
	6	2. 06. 0018	big flat carton	48cm*44cm*19c m	1	PCS				
Remarks	Т	he loose packing is not subject	to this specific	ation. Customer's r	equirements sha	ll prevai	I			



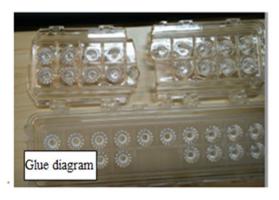
## Special notice

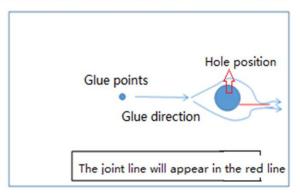
When gule pass through holes, columns and other structures, or part of the thin structure, will form a weld line. The product which uses multi-point injection welding line will appear because of the combination of sol, as shown below:

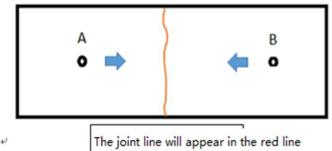
## Syntneti











## 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  $\Pi$  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 atondard	Inspection equipment	Defec	t level	
restitems	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			√

1		Ī	Ī	
	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	<b>√</b>	
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	<b>√</b>	
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			<b>√</b>
Deformation	Insufficient filling shall not affect the appearance of the assembly and the exposed surfaces.	Visual, feeler		<b>√</b>
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	<ol> <li>Product does not allow the presence of flow marks and welding lines unless the structure can not be avoided;</li> <li>The remaining flow marks shall not appear in the optical surface, a single L ≤ 10mm, no more than two</li> </ol>	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	<b>√</b>		
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	<b>√</b>		
	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		√	