



MACHINE VISION

Machine Vision Light



Provide the world's most cost-effective machine vision products

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公司简介

海天翔科技有限公司成立于2006年，位于中国广东深圳，是一家专注于机器视觉光源、工业相机镜头和视觉系统解决方案的高科技企业。

作为全球机器视觉解决方案的领导者，我们在管理、研发、软件工程师、成像工程师和销售团队方面拥有15年的专业经验。

公司拥有先进的生产设备，秉承ISO9001:2015质量体系管理标准。同时，我们拥有30多项发明专利和认证，服务于全球30个国家的2500多家客户。

我们热切期待您的沟通，期待在不久的将来有一个富有成效的合作伙伴关系。

Company Profile

HIFLY Technology company Limited was established in 2006 located in Shenzhen Guangdong China which is a high-tech enterprise focusing on machine vision light source, industrial camera lenses and vision system solutions.

As a global leader in machine vision solutions, we have 15 years of expertise in management, R&D, software engineers, imaging engineers and sales teams.

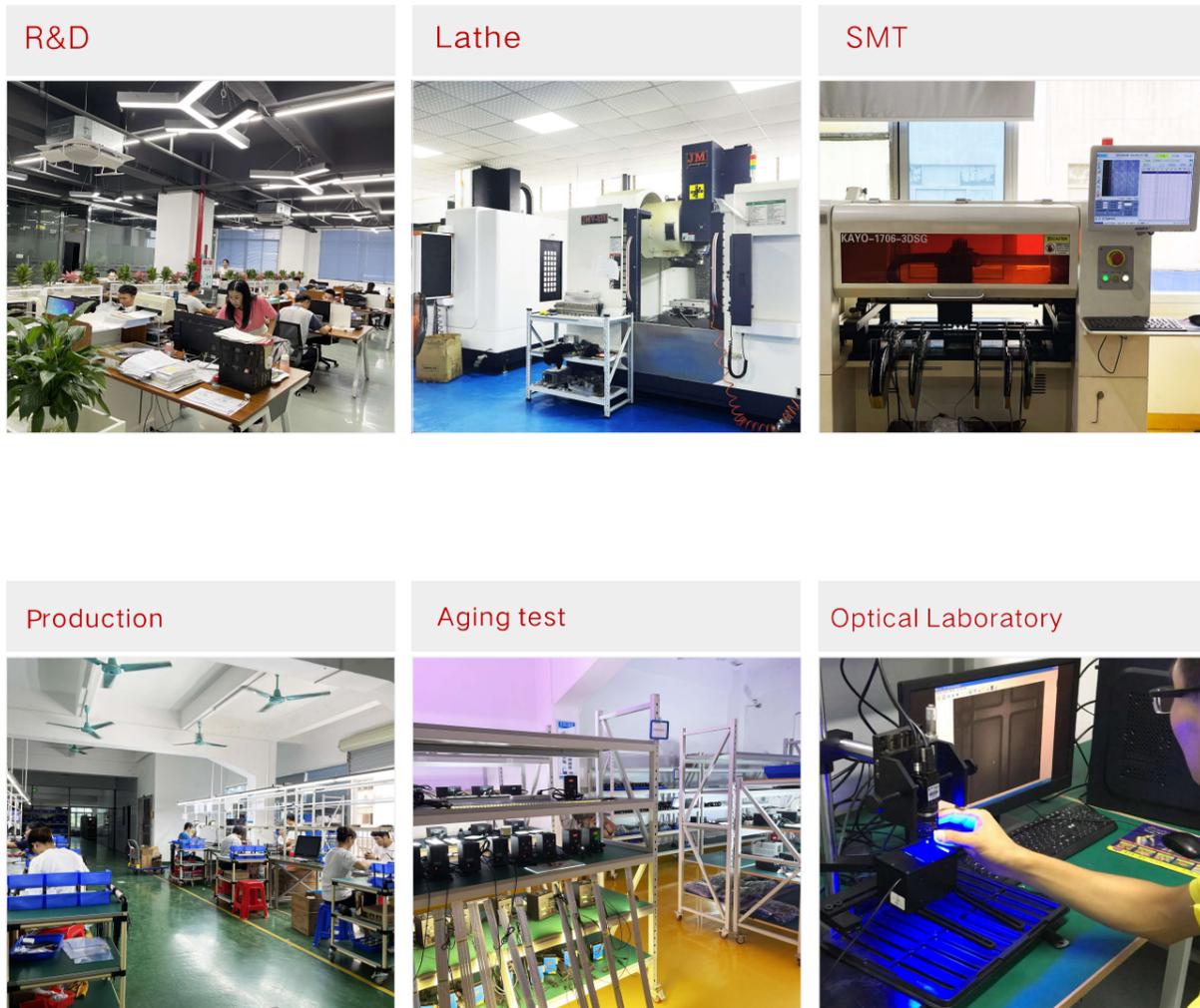
We are equipped with state-of-the-art production facilities, adhering to ISO 9001:2015 quality system management standard. At the same time, we have more than 30 invention patents and Certifications, serving more than 2,500 customers in 30 countries all over the world.

We eagerly await your communication, anticipating a fruitful partnership in the near future.

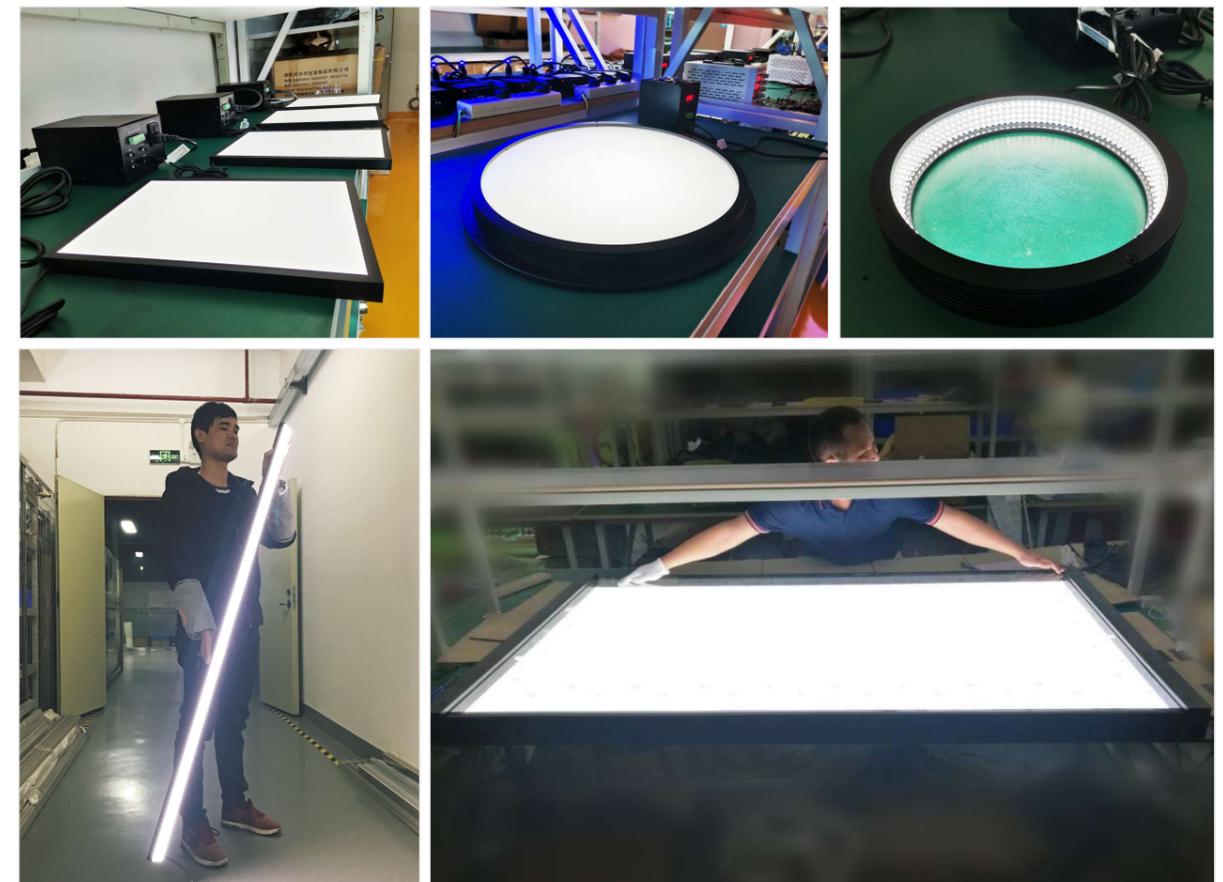


Quick Customization

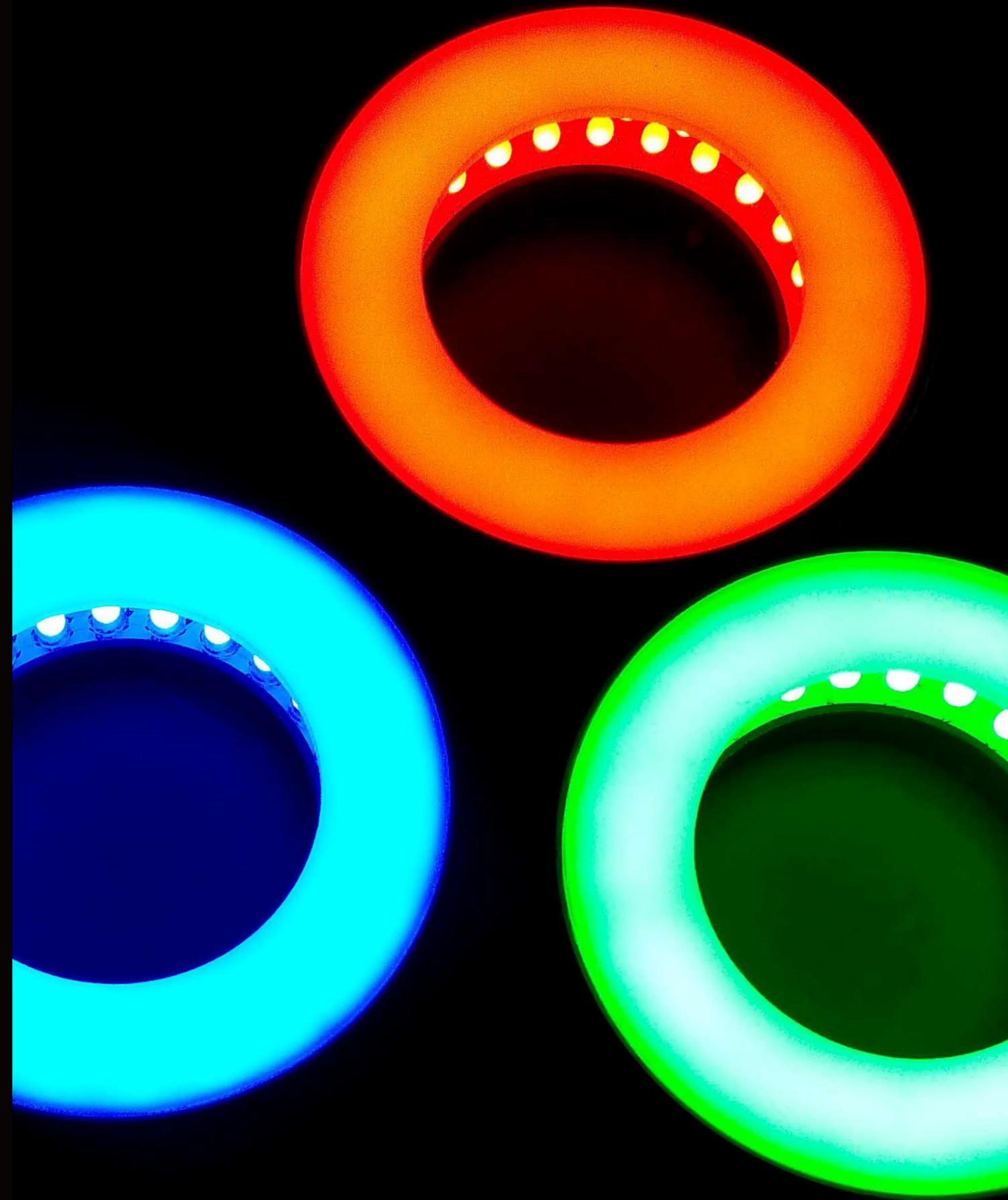
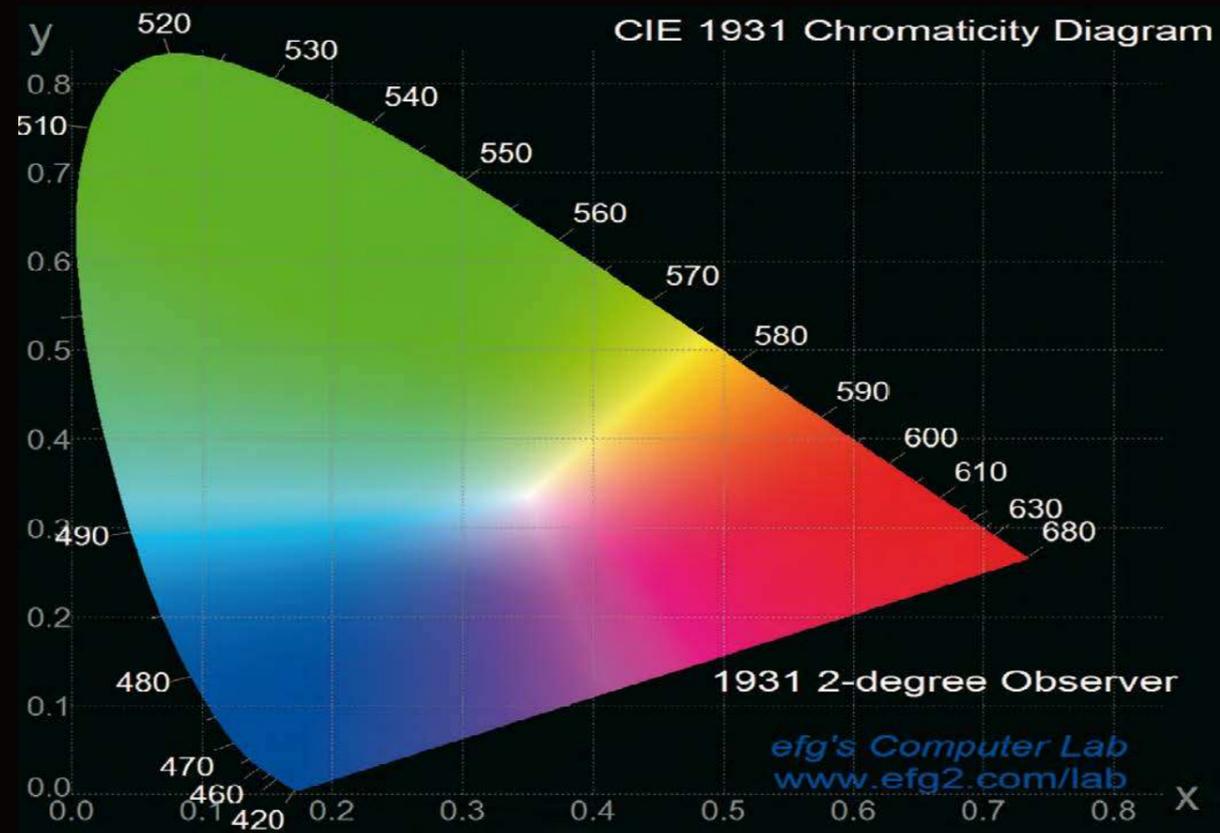
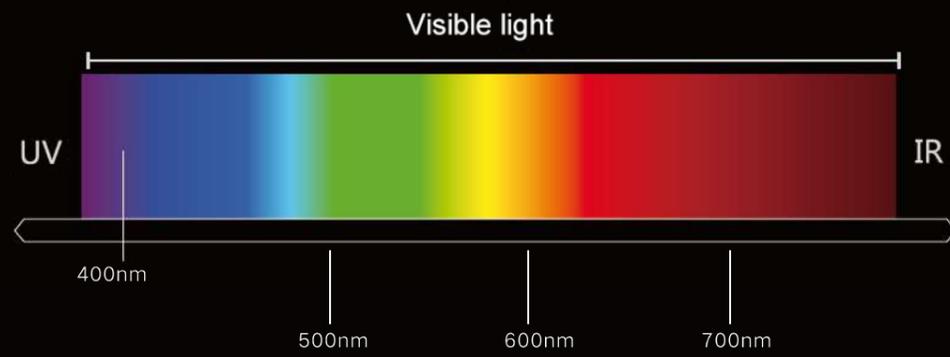
We have advanced machinery and equipment and professional R & D team, according to customer requirements quickly customized proofing, not only saving proofing time, greatly improving efficiency, product quality is also more guaranteed.



Product customization time: 3 to 7 working days



Color and wavelength of light



CONTENTS

Ring light P01-03

2RN series



Ring light P04-05

2RND series



Shadowless Ring Light P06-07

2RNS series



Dome light P08-09

DM series



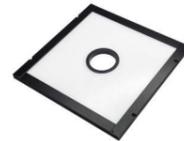
Ultra-thin flat light P10-11

2FLC series



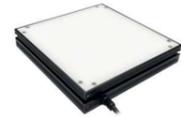
Hole Side backlight P12-13

2FLCH series



High power backlight P14-15

2FL series



Collimated backlight P16-17

2FLP series



Hole backlight P18-19

2FLH series



Flat shadowless light P20-21

FLS series



Bar light P22-23

BRD series



Spot light P24-25

SP series



Coaxial light P26-27

CO series
COG series



Collimation light P28-29

SPP series



Line scan light P30-31

LI series



Coaxial line scan light P32-33

LC series



Near infrared light P34

SL series



Two channel standard analog controller P36

ACS series



Four channel standard analog controller P37

ACS series



Two channel mini digital controller P38

DCM series



Four channel mini digital controller P39

DCM series



Two channel standard digital controller P40

DCS series



Four channel standard digital controller P41

DCS series



Eight channel standard digital controller P42

DCS series



Third generation four channel mini digital controller P43

DPM series



Two channel stroboscopic brightening digital controller P44

DPS series



Third generation four channel standard digital controller P45

DCS3 series



High power controller P46-48



Common controller P49



Accessories series P50

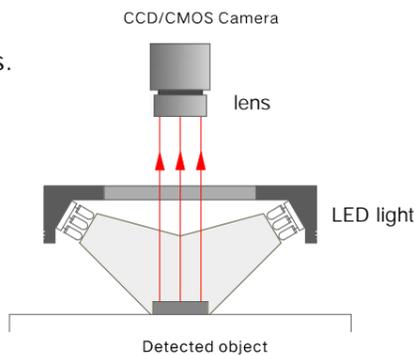


01 Ring Light



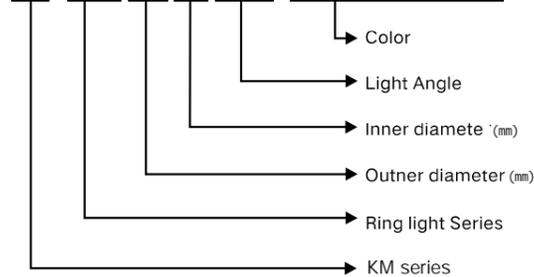
Application Cases

- PCB&lastic containers inspection.
- Electronic components inspection&OCR on integrated circuits.
- Microscope illumination, general appearance inspection.
- LCD correction, font label detection.



Selection Guide

KM-2RN ## ## A## - R/G/B/W/IR/UV



Application Example

Ceramic surface profile detection

Ceramic surface contour detection uses the direct illumination method of the ring light source, and the contour is more obvious after the surface is illuminated.



Fastener nut cross groove detection

Surface is relatively flat, the end face is brightened with a ring light, and the cross groove is rough and black, so as to detect the quality of the cross groove.

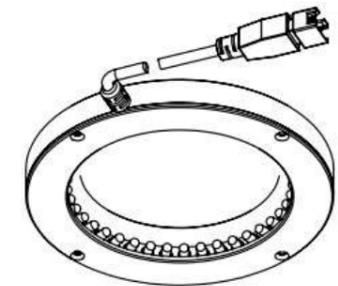
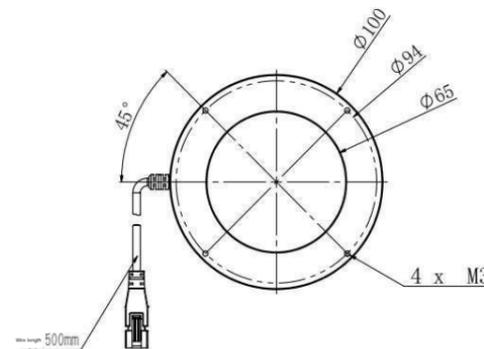


Technical indicators

Light color(wave length)	red:620-639nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40℃ humi di ty: 20-85%(Non condensng)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

Product size

Model: KM-2RN10065A0



Product modelling panameter table

Product	Model	Angle	Color	Voltage (24V) Power (W)/SMD		Voltage (24V) Power (W)/DIP		Size			LED Type		Uniformity diffuser
				●	○	●	○	internal diameter	outside diameter	Thickness	SMD	DIP	
Ring light (2RN)	KM-2RN6030A0	0°	● ● ○	-	-	0.6	1.2	30	60	11		✓	×
	KM-2RN7035A0	0°	● ● ○	-	-	0.9	1.2	35	70	11		✓	×
	KM-2RN8045A0	0°	● ● ○	-	-	0.9	1.6	45	80	11		✓	×
	KM-2RN9055A0	0°	● ● ○	-	-	1.2	1.9	55	90	11		✓	×
	KM-2RN10065A0	0°	● ● ○	-	-	1.2	1.9	65	100	11		✓	×
	KM-2RN12085A0	0°	● ● ○	-	-	1.9	2.5	85	120	11		✓	×
	KM-2RN150115A0	0°	● ● ○	-	-	1.9	3.7	115	150	11		✓	×
	KM-2RN180145A0	0°	● ● ○	-	-	2.8	4.7	145	180	11		✓	×
	KM-2RN200170A0	0°	● ● ○	-	-	3.2	4.7	170	200	10.5		✓	×
	KM-2RN250220A0	0°	● ● ○	-	-	3.8	6.3	220	250	10.5		✓	×
	KM-2RN6022A30	30°	● ● ○	2.7	2.9	1.6	2.2	22	60	18	✓	✓	×
	KM-2RN7035A30	30°	● ● ○	4.0	4.8	1.6	2.8	35	70	22	✓	✓	×
	KM-2RN8045A30	30°	● ● ○	4.3	5.3	2.2	3.1	45	80	22	✓	✓	×
	KM-2RN9045A30	30°	● ● ○	5.8	6.9	3.1	5.0	45	90	23	✓	✓	×
	KM-2RN10055A30	30°	● ● ○	5.8	6.9	3.7	5.9	55	100	23	✓	✓	×
	KM-2RN12075A30	30°	● ● ○	8.6	9.5	4.7	7.2	75	120	23	✓	✓	×
	KM-2RN150105A30	30°	● ● ○	11.5	12.7	6.2	10.0	105	150	23	✓	✓	×
	KM-2RN180130A30	30°	● ● ○	17.3	19.0	10.3	15.9	130	180	27	✓	✓	×
	KM-2RN200158A30	30°	● ● ○	19.4	23.8	11.3	18.8	158	200	26	✓	✓	×
	KM-2RN250206A30	30°	● ● ○	25.9	28.5	14.1	22.5	206	250	26	✓	✓	×

1.Angle refers to the Angle between the light and the horizontal plane

2.The difference between the actual product power and the power meter content of ±10% is the normal range



Product	Model	Angle	Color	Voltage (24V) Power (W)/SMD		Voltage (24V) Power (W)/DIP		Size			LED Type		Uniformity diffuser
				●	○	●	○	internal diameter	outside diameter	Thickness	SMD	DIP	
Ring light (2RN)	KM-2RN5320A45	45°	● ● ○	2.7	2.9	1.2	1.9	20	53	20	✓	✓	×
	KM-2RN6025A45	45°	● ● ○	3.4	3.8	1.6	2.2	25	60	21	✓	✓	×
	KM-2RN7035A45	45°	● ● ○	4.0	3.4	1.9	2.8	35	70	21	✓	✓	×
	KM-2RN8045A45	45°	● ● ○	5.0	5.8	2.2	3.4	45	80	21	✓	✓	×
	KM-2RN9045A45	45°	● ● ○	7.2	6.9	3.4	5.3	45	90	23	✓	✓	×
	KM-2RN10055A45	45°	● ● ○	9.4	9.0	3.7	5.9	55	100	23	✓	✓	×
	KM-2RN12070A45	45°	● ● ○	13.0	14.8	6.2	9.7	70	120	25	✓	✓	×
	KM-2RN150100A45	45°	● ● ○	15.8	19.0	8.1	13.1	100	150	25	✓	✓	×
	KM-2RN180130A45	45°	● ● ○	15.1	23.8	10.3	15.9	130	180	25	✓	✓	×
	KM-2RN200154A45	45°	● ● ○	19.4	23.8	10.3	16.9	154	200	24	✓	✓	×
	KM-2RN250204A45	45°	● ● ○	25.9	29.6	13.8	22.5	204	250	23	✓	✓	×
	KM-2RN6025A60	60°	● ● ○	2.7	2.9	1.6	2.2	25	60	20	✓	✓	×
	KM-2RN7035A60	60°	● ● ○	4.0	4.8	1.9	2.8	35	70	20	✓	✓	×
	KM-2RN8045A60	60°	● ● ○	4.3	5.3	2.2	3.1	45	80	20	✓	✓	×
	KM-2RN9040A60	60°	● ● ○	7.2	7.9	3.1	5.0	40	90	22	✓	✓	×
	KM-2RN10050A60	60°	● ● ○	7.9	8.4	3.7	5.6	50	100	22	✓	✓	×
	KM-2RN12060A60	60°	● ● ○	11.5	13.2	5.9	9.0	60	120	23	✓	✓	×
	KM-2RN15095A60	60°	● ● ○	13.0	18.0	8.1	12.5	95	150	23	✓	✓	×
	KM-2RN180125A60	60°	● ● ○	17.3	23.2	10.0	15.6	125	180	23	✓	✓	×
	KM-2RN208154A60	60°	● ● ○	21.6	25.3	11.3	17.5	154	208	21	✓	✓	×
	KM-2RN250202A60	60°	● ● ○	23.0	25.3	13.8	22.5	202	250	22	✓	✓	×
	KM-2RN6030A90	90°	● ● ○	1.9	2.9	1.2	2.2	30	60	20	✓	✓	×
	KM-2RN7040A90	90°	● ● ○	2.4	3.4	1.9	2.8	40	70	20	✓	✓	×
	KM-2RN8040A90	90°	● ● ○	3.8	5.8	2.8	4.4	40	80	20	✓	✓	×
	KM-2RN9040A90	90°	● ● ○	5.3	8.2	4.1	6.6	40	90	20	✓	✓	×
	KM-2RN10040A90	90°	● ● ○	7.2	11.5	5.3	8.4	40	100	20	✓	✓	×
	KM-2RN12050A90	90°	● ● ○	8.6	13.4	6.9	10.6	50	120	20	✓	✓	×
	KM-2RN15095A90	90°	● ● ○	10.6	16.3	7.8	12.2	95	150	20	✓	✓	×
	KM-2RN180125A90	90°	● ● ○	13.0	20.6	9.7	15.3	125	180	20	✓	✓	×
	KM-2RN200154A90	90°	● ● ○	13.4	21.1	11.3	17.5	154	200	18	✓	✓	×
KM-2RN250204A90	90°	● ● ○	17.3	26.9	15.0	22.5	204	250	18	✓	✓	×	

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

	1 Three-color RGB light source customization	4 Illumination Angle customization
	2 Outer diameter and inner diameter height customization	5 Installation and fixed customization
	3 Wavelength and color temperature customization	6 wire length customization

Angle refers to the Angle between the light and the horizontal plane

02 Ring Light

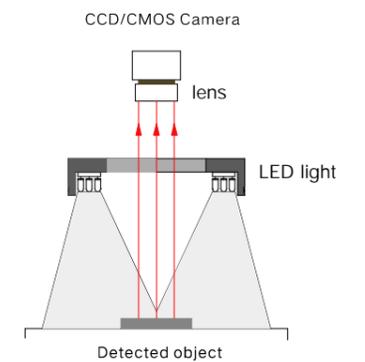
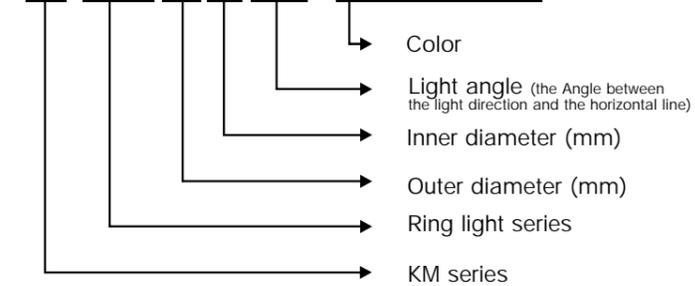


► Application Cases

- Surface bumps, scratches and other defects detection.
- Print character, mark, bar code, fingerprint image recognition.

► Selection Guide

KM-2RND ## ## A## - R/G/B/W/IR/UV



Application Example

Auto parts defect detection

Use horizontal low-angle illumination to illuminate the six corners of the bulge, and the background is gray and black, so as to judge the defect of the object.



Nut defect detection

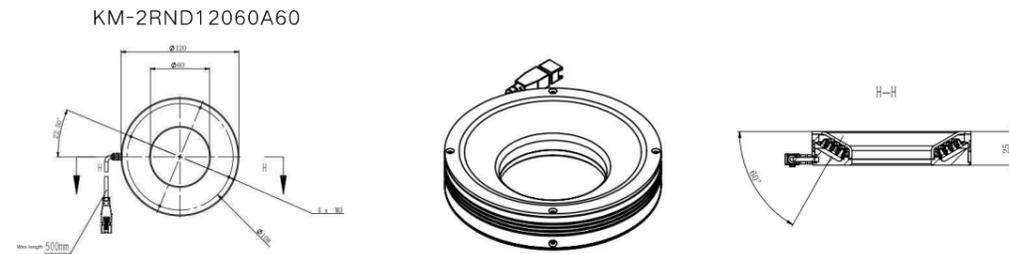
The edge is illuminated by the horizontal and low angle illumination, the scratches do not reflect the light and the background is gray and black, so as to judge the object defects



► Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Working life	temperature:0-40℃ humidity:20-85%(Non condensing)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size



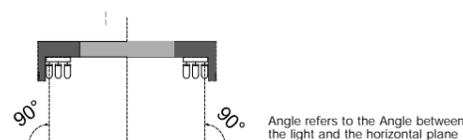
► Product modelling parameter table

Product	Model	Angle	Color	Voltage (24V) Power (W)/SMD		Voltage (24V) Power (W)/DIP		Size			LED Type		Uniformity diffuser
				●	○	●	○	internal diameter	outside diameter	Thickness	SMD	DIP	
Ring light (2RND)	KM-2RND6022A30	30°	● ○	2.7	2.9	1.6	1.2	22	60	20	✓	✓	✓
	KM-2RND7035A30	30°	● ○	4.0	4.8	1.6	2.8	35	70	24	✓	✓	✓
	KM-2RND8045A30	30°	● ○	4.3	5.3	2.2	3.1	45	80	24	✓	✓	✓
	KM-2RND9045A30	30°	● ○	5.8	6.9	3.1	5.0	45	90	25	✓	✓	✓
	KM-2RND10055A30	30°	● ○	5.8	6.9	3.7	5.9	55	100	25	✓	✓	✓
	KM-2RND12075A30	30°	● ○	8.6	9.5	4.7	7.2	75	120	25	✓	✓	✓
	KM-2RND150105A30	30°	● ○	11.5	12.7	6.2	10.0	105	150	25	✓	✓	✓
	KM-2RND180130A30	30°	● ○	17.3	19.0	10.3	15.9	130	180	29	✓	✓	✓
	KM-2RND200158A30	30°	● ○	19.4	23.8	11.3	18.8	158	200	28	✓	✓	✓
	KM-2RND250206A30	30°	● ○	25.9	28.5	14.1	22.5	206	250	28	✓	✓	✓
	KM-2RND5320A45	45°	● ○	2.7	2.9	1.2	1.9	20	53	22	✓	✓	✓
	KM-2RND6025A45	45°	● ○	3.4	3.8	1.6	2.2	25	60	23	✓	✓	✓
	KM-2RND7035A45	45°	● ○	4.0	3.4	1.9	2.8	35	70	23	✓	✓	✓
	KM-2RND8045A45	45°	● ○	5.0	5.8	2.2	3.4	45	80	23	✓	✓	✓
	KM-2RND9045A45	45°	● ○	7.2	6.9	3.4	5.3	45	90	25	✓	✓	✓
	KM-2RND10055A45	45°	● ○	9.4	9.0	3.7	5.9	55	100	25	✓	✓	✓
	KM-2RND12070A45	45°	● ○	13.0	14.8	6.2	9.7	70	120	27	✓	✓	✓
	KM-2RND150100A45	45°	● ○	15.8	19.0	8.1	13.1	100	150	27	✓	✓	✓
	KM-2RND180130A45	45°	● ○	15.1	23.8	10.3	15.9	130	180	27	✓	✓	✓
	KM-2RND200154A45	45°	● ○	19.4	23.8	10.3	16.9	154	200	26	✓	✓	✓
	KM-2RND250204A45	45°	● ○	25.9	29.6	13.8	22.5	204	250	25	✓	✓	✓
	KM-2RND6025A60	60°	● ○	2.7	2.9	1.6	2.2	25	60	22	✓	✓	✓
	KM-2RND7035A60	60°	● ○	4.0	4.8	1.9	2.8	35	70	22	✓	✓	✓
	KM-2RND8045A60	60°	● ○	4.3	5.3	2.2	3.1	45	80	22	✓	✓	✓
	KM-2RND9040A60	60°	● ○	7.2	7.9	3.1	5.0	40	90	24	✓	✓	✓
	KM-2RND10050A60	60°	● ○	7.9	8.4	3.7	5.6	50	100	24	✓	✓	✓
	KM-2RND12060A60	60°	● ○	11.5	13.2	5.9	9.0	60	120	25	✓	✓	✓
	KM-2RND15095A60	60°	● ○	13.0	18.0	8.1	12.5	95	150	25	✓	✓	✓
	KM-2RND180125A60	60°	● ○	17.3	23.2	10.0	15.6	125	180	25	✓	✓	✓
	KM-2RND208154A60	60°	● ○	21.6	25.3	11.3	17.5	154	208	23	✓	✓	✓
	KM-2RND250202A60	60°	● ○	23.0	25.3	13.8	22.5	202	250	24	✓	✓	✓
	KM-2RND6030A90	90°	● ○	1.9	2.9	1.2	2.2	30	60	22	✓	✓	✓
	KM-2RND7040A90	90°	● ○	2.4	3.4	1.9	2.8	40	70	22	✓	✓	✓
	KM-2RND8040A90	90°	● ○	3.8	5.8	2.8	4.4	40	80	22	✓	✓	✓
	KM-2RND9040A90	90°	● ○	5.3	8.2	4.1	6.6	40	90	22	✓	✓	✓
	KM-2RND10040A90	90°	● ○	7.2	11.5	5.3	8.4	40	100	22	✓	✓	✓
	KM-2RND12050A90	90°	● ○	8.6	13.4	6.9	10.6	50	120	22	✓	✓	✓
	KM-2RND15095A90	90°	● ○	10.6	16.3	7.8	12.2	95	150	22	✓	✓	✓
	KM-2RND180125A90	90°	● ○	13.0	20.6	9.7	15.3	125	180	22	✓	✓	✓
	KM-2RND200154A90	90°	● ○	13.4	21.1	11.3	17.5	154	200	20	✓	✓	✓
KM-2RND250204A90	90°	● ○	17.3	26.9	15.0	22.5	204	250	20	✓	✓	✓	

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

	1 Three-color RGB light source customization	4 Illumination Angle customization
	2 Outer diameter and inner diameter height customization	5 Installation and fixed customization Input
	3 Wavelength and color temperature customization	6 Wire length customization

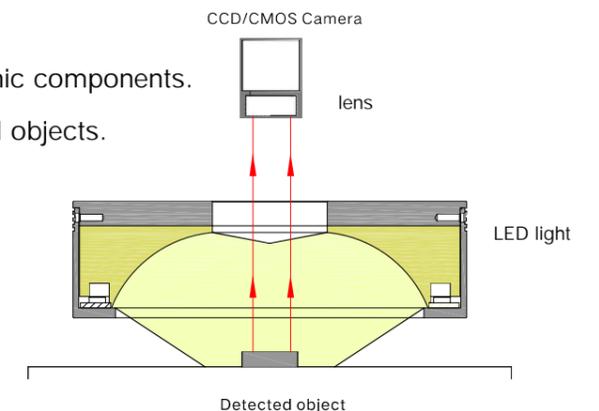


03 Shadowless Ring Light

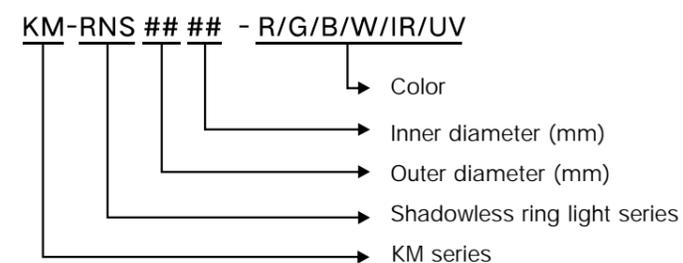


► Application Cases

- High-speed pipelined surface inspection of electronic components.
- Dirt detection on the inner wall surface of cylindrical objects.
- Beverage bottle cap surface dirt detection.



► Selection Guide



Application Example



Bearing rust detection, use light source to black rust, white background, convenient software analysis.



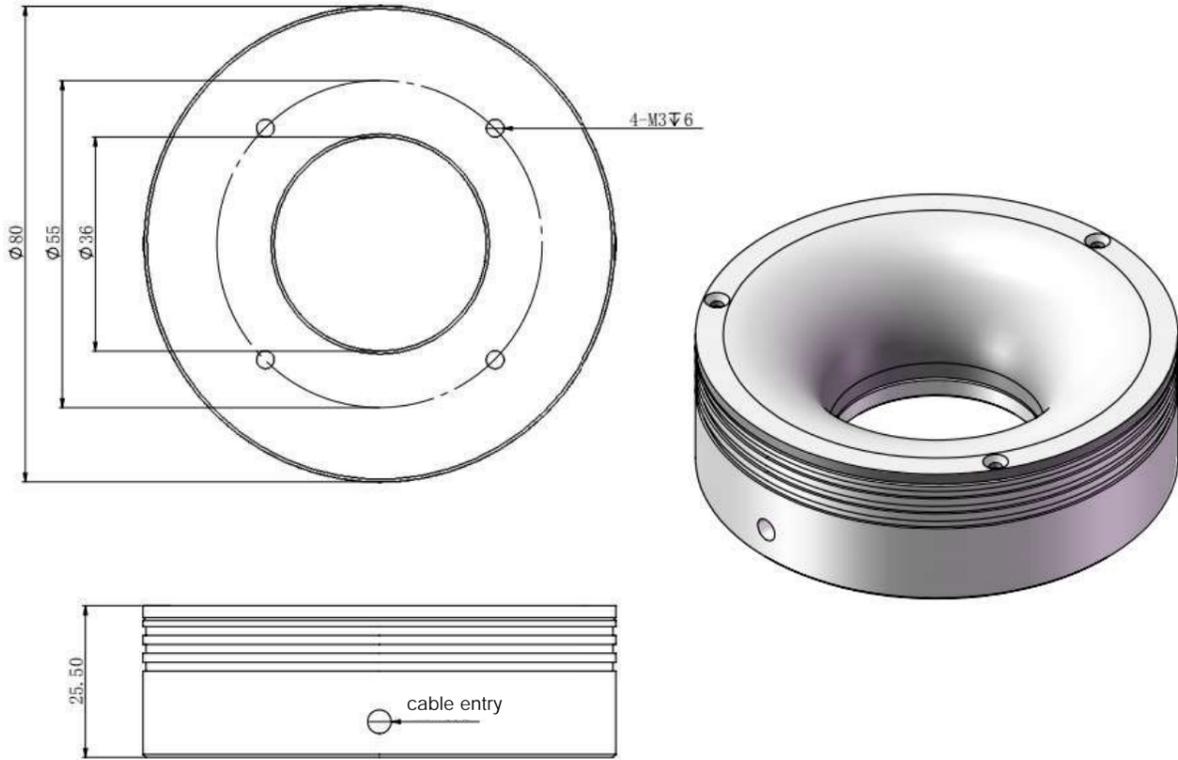
Plastic parts character detection, uniform light on the surface of the product to make the character more clear, easy to software analysis.

► Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40℃ humidity:20-85%(Non condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size

KM-RNS8036



► Product modelling parameter table

Product	Model	Angle	Color	Voltage(V)	Power(W)		Size			LED Type		Uniformity diffuser
					●	●●○	internal diameter	outside diameter	Thickness	SMD	DIP	
Shadowless ring light (RNS)	KM-RNS8036	-	● ●●○	- 24V	2.5	3.8	36	80	26	✓		✓
	KM-RNS12035	-	● ●●○	- 24V	-	5	35	120	31	✓		✓
	KM-RNS12071	-	● ●●○	- 24V	7	8.5	71	120	24	✓		✓
	KM-RNS145100	-	● ●●○	- 24V	-	12	100	145	25	✓		✓

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

	1 Three-color RGB light source customization	4 Installation and fixed customization
	2 Outer diameter and inner diameter height customization	5 Input wire length customization
	3 Wavelength and color temperature customization	

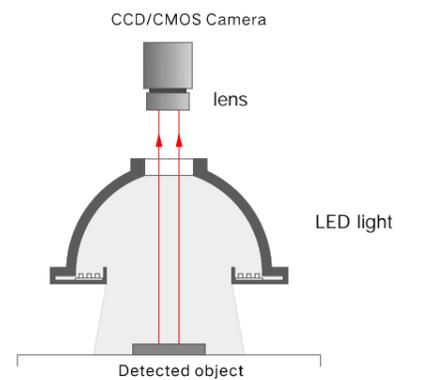
04

Dome light



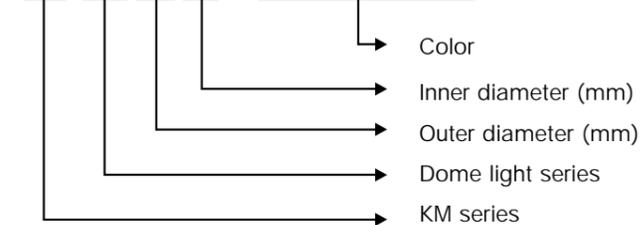
► Application Cases

- Detecting reflective, uneven surfaces.
- Surface, concave and convex surface, arc surface detection.



► Selection Guide

KM-DM ## ## - R/G/B/W/IR/UV



Application Example
Packaging Industry
(Beverage container top)



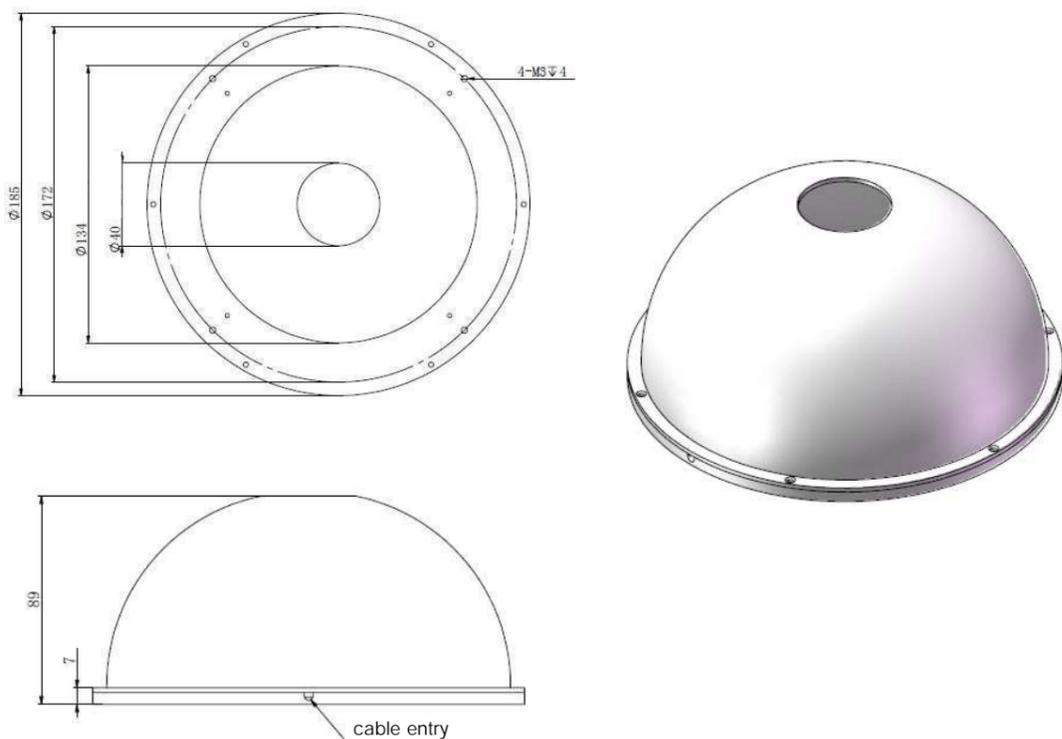
Using the original irradiation structure, irradiation diffused light with high output.

► Technical indicators

Light color(wave length)	red:620-630nm	green:520-530nm
	blue:460-470nm	white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40℃ humidity:20-85%(non-condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size

KM-DM13440



► Product modelling parameter table

Product	Model	Luminous size		Color	Voltage(V)	Power(W)		Boundary dimension		LED Type	
		Light inlet port (mm)	Light outlet (mm)			● ● ●	● ● ●	Outer diameter (mm)	Height (mm)	SMD	DIP
Dome light	KM-DM2812	12	28	● ● ●	- 24V	-	1	44	30.2	✓	
	KM-DM6228	28	62	● ● ●	- 24V	2	3.5	84	48	✓	
	KM-DM2.0-9230	30	92	● ● ●	- 24V	7.6	10	135	63	✓	
	KM-DM13440	40	134	● ● ●	- 24V	10	12	185	89	✓	
	KM-DM2.0-21650	50	216	● ● ●	- 24V	16	22	266	126	✓	
	KM-DM30060	60	300	● ● ●	- 24V	28	32	370	172	✓	

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

	1 Three-color RGB light source customization	4 Installation and fixed customization
	2 Outer diameter and inner diameter height customization	5 Input wire length customization
	3 Wavelength and color temperature customization	

05

Ultra-thin flat light

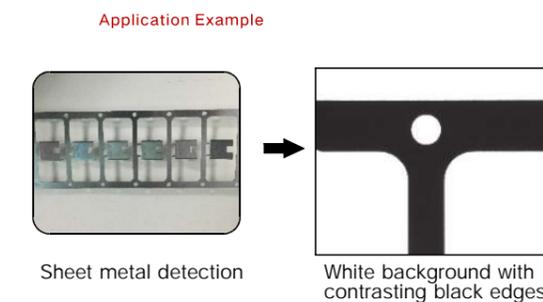
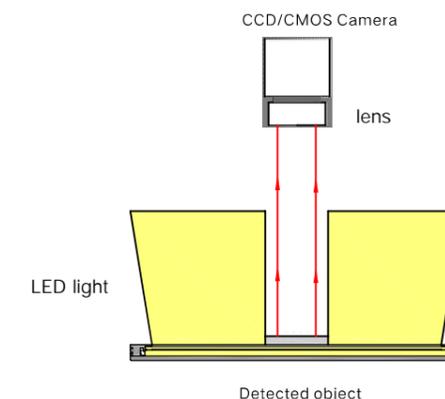
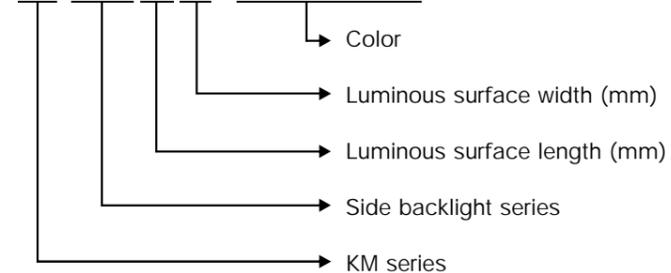


► Application Cases

- Glass scratch detection.
- PCB board printing defect detection.
- Reflective plane defect detection.

► Selection Guide

KM-2FLC ## ## - R/G/B/W/IR/UV

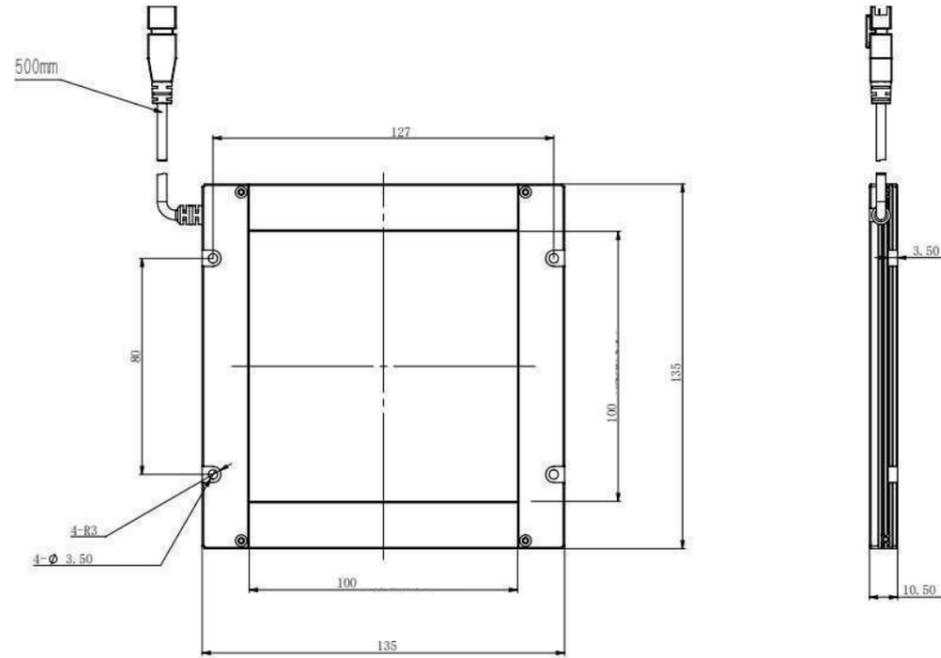


► Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40°C humidity:20-85%(Non condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size

KM-2FLC100100



► Product modelling parameter table

Product	Model	Luminous size	Color	Voltage(V)	Power(W)			Boundary dimension(mm)			LED Type	
					●	●	○	Long	Wide	High	SMD	DIP
Side backlight (2FLC)	KM-2FLC100100	100x100	- ● ○	24V	-	6.7	135	135	10.5	✓		
	KM-2FCL150150	150x150	- ● ○	24V	-	10.1	185	185	10.5	✓		
	KM-2FLC200200	200x200	- ● ○	24V	-	13.4	235	235	10.5	✓		
	KM-2FLC250250	250x250	- ● ○	24V	-	16.8	285	285	10.5	✓		
	KM-2FLC300300	300x300	- ● ○	24V	-	20.2	335	335	10.5	✓		

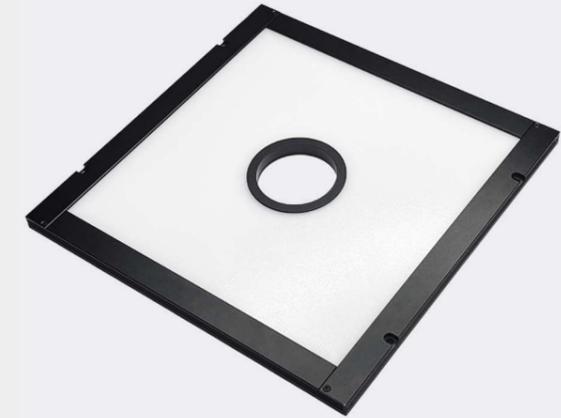
The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

	1 Three-color RGB light source customization	4 Installation and fixed customization
	2 Outer diameter and inner diameter height customization	5 Input wire length customization
	3 Wavelength and color temperature customization	

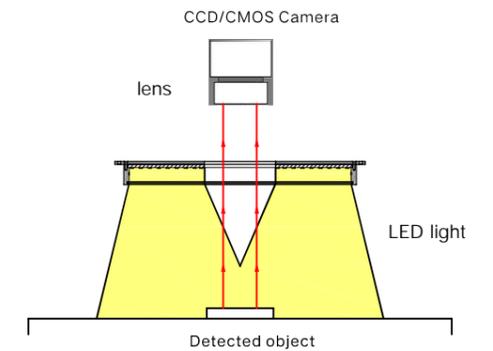
06

Hole side backlight



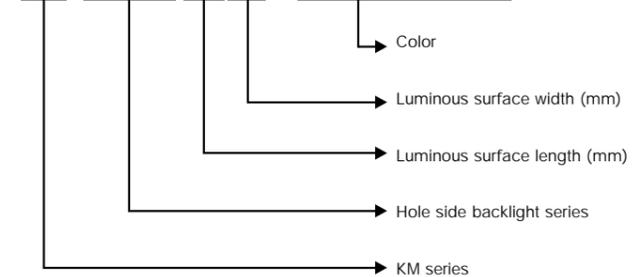
► Application Cases

- Measurement of the four dimensions of the object.
- Edge breakage detection.
- Transparent object impurity detection.



► Selection Guide

KM-2FLCH ## ## - R/G/B/W/IR/UV



Application Example

- Phone case edge detection
The required irradiation area is relatively large, and there is a weak deformation of the shell edge.
- Sole contour detection
The front illumination needs to solve the side shadow, and the backlight with better brightness and uniformity is selected according to the shape of the product.

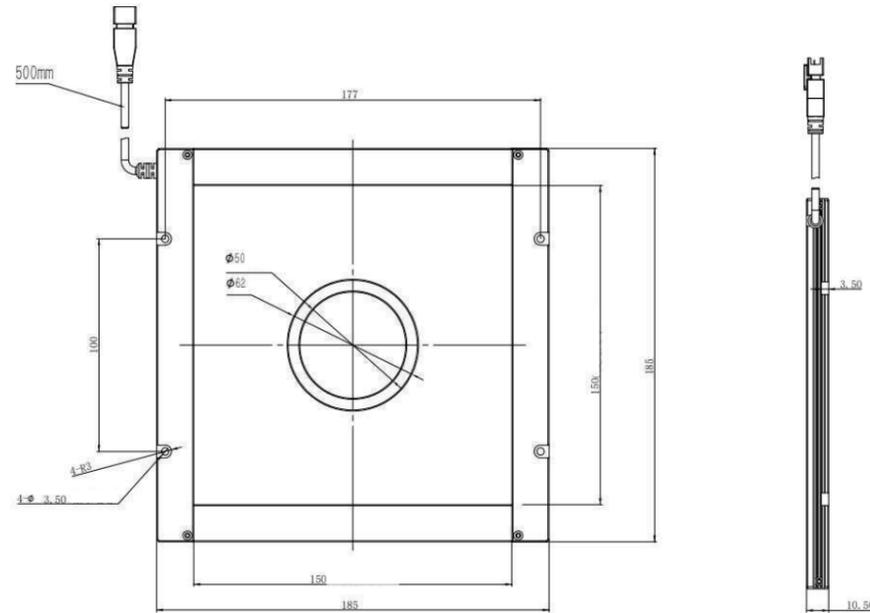


► Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40℃ humidity: 20-85%(Non condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

▶ Product size

KM-2FLCH150150K50



▶ Product modelling parameter table

Product	Model	Luminous size	Color	Voltage(V)	Power(W)			Boundary dimension(mm)			LED Type		Remark
					●	●	○	Long	Wide	High	SMD	DIP	
Hole side backlight (2FLCH)	KM-2FLCH150150K50	150x150	-	● ○	-	24V	-	10.1	185	185	10.5	✓	孔径50
	KM-2FLCH200200K50	200x200	-	● ○	-	24V	-	13.4	235	235	10.5	✓	
	KM-2FLCH250250K50	250x250	-	● ○	-	24V	-	16.8	285	285	10.5	✓	
	KM-2FLCH300300K50	300x300	-	● ○	-	24V	-	20.2	335	335	10.5	✓	

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

	1 Three-color RGB light source customization	4 Installation and fixed customization
	2 Outer diameter and inner diameter height customization	5 Input wire length customization
	3 Wavelength and color temperature customization	

07 High power backlight

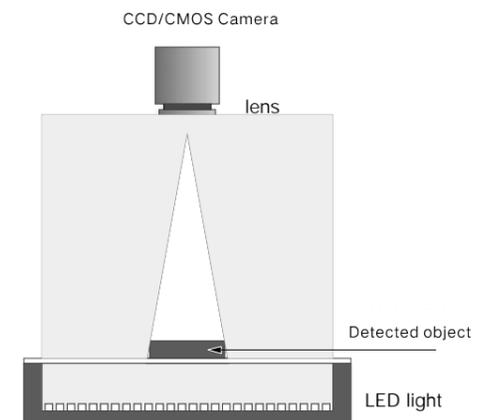
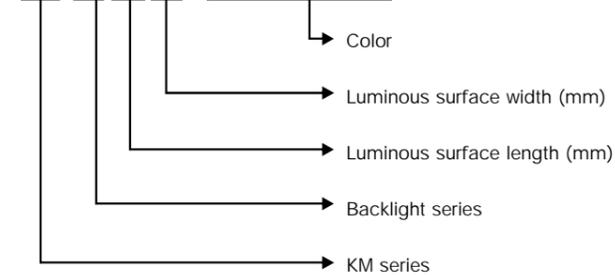


▶ Application Cases

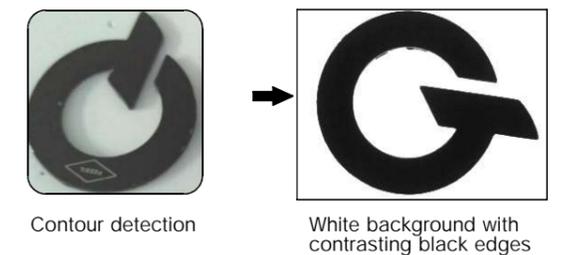
- Contour dimension measurement.
- Edge breakage detection.
- Transparent object impurity detection.
- Oral liquid height detection.

▶ Selection Guide

KM-2FL ## ## - R/G/B/W/IR/UV



Application Example

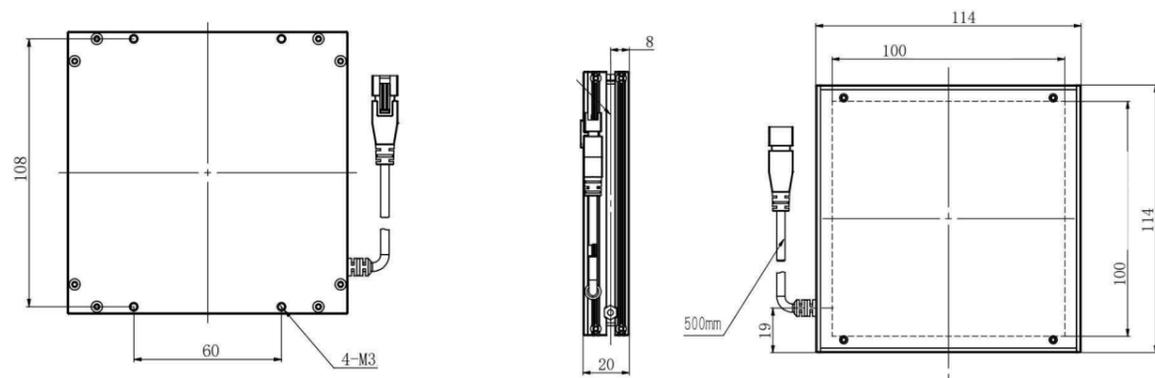


▶ Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40℃ humidity:20-85%(Non condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size

KM-2FL100100



► Product modelling parameter table

Product	Model	Luminous size	Color	Voltage(V)	Power(W)		Boundary dimension(mm)			LED Type	Installation method			Luminous size expansion
					●	●●●	Long	Wide	High		SMD	M3 nut slot	Bottom side installation	
High power backlight (2FL)	KM-2FL5050	50x50	● ● ○	24V	2.9	2.9	64	64	20	✓	✓	✓	The luminous size can be multiplied individually: 10050, 12060, 14070, 16080, 200100, 240120.	
	KM-2FL6060	60x60	● ● ○	24V	4.3	3.6	74	74	20	✓	✓	✓		
	KM-2FL7070	70x70	● ● ○	24V	5.0	5.4	84	84	20	✓	✓	✓		
	KM-2FL8080	80x80	● ● ○	24V	6.5	6.5	94	94	20	✓	✓	✓		
	KM-2FL9090	90x90	● ● ○	24V	8.6	7.6	104	104	20	✓	✓	✓		
	KM-2FL100100	100x100	● ● ○	24V	9.7	11.5	114	114	20	✓	✓	✓		
	KM-2FL120120	120x120	● ● ○	24V	11.9	13.0	134	134	20	✓	✓	✓		
	KM-2FL150150	150x150	● ● ○	24V	11.9	13.7	164	164	21	✓	✓	✓		
	KM-2FL200150	200x150	● ● ○	24V	15.1	17.5	214	164	21	✓	✓	✓		
	KM-2FL200200	200x200	● ● ○	24V	23.8	22.5	214	214	21	✓	✓	✓		
	KM-2FL250125	250x125	● ● ○	24V	13.0	16.8	264	139	21	✓	✓	✓		
	KM-2FL250250	250x250	● ● ○	24V	25.9	33.7	264	264	21	✓	✓	✓		
	KM-2FL300150	300x150	● ● ○	24V	19.4	27.5	314	164	21	✓	✓	✓		
	KM-2FL300200	300x200	● ● ○	24V	30.2	34.9	314	214	21	✓	✓	✓		
	KM-2FL300300	300x300	● ● ○	24V	47.5	54.9	314	314	21	✓	✓	✓		
	KM-2FL400200	400x200	● ● ○	24V	38.9	44.9	414	214	21	✓	✓	✓		
KM-2FL400300	400x300	● ● ○	24V	60.5	69.9	414	314	21	✓	✓	✓			
KM-2FL400400	400x400	● ● ○	24V	77.8	89.9	414	414	21	✓	✓	✓			

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

	1 Three-color RGB light source customization	4 Installation and fixed customization
	2 Outer diameter and inner diameter height customization	5 Input wire length customization
	3 Wavelength and color temperature customization	

08
Collimated backlight

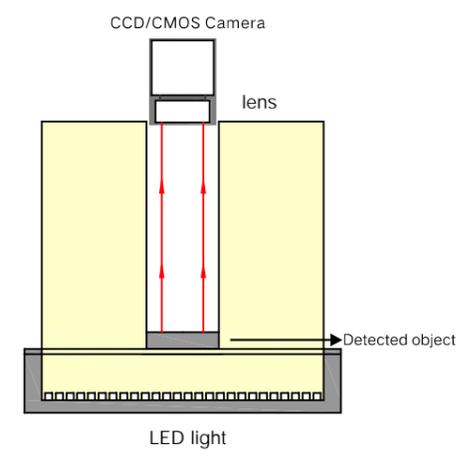
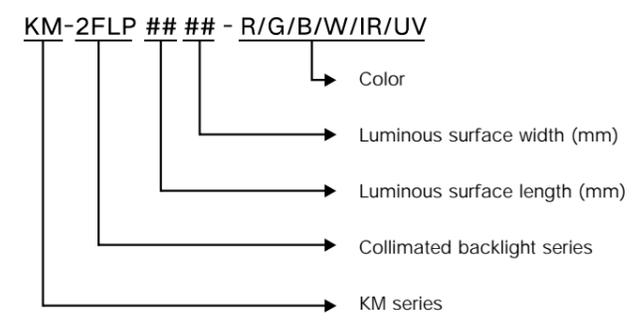


► Application Cases

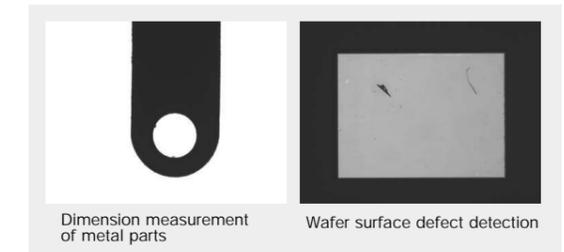
- Metal cylinder profile measurement.
- Glass bottle diameter measurement.
- Large-area circuit board component detection and identification.

Product modelling parameter table

► Selection Guide



Application Example

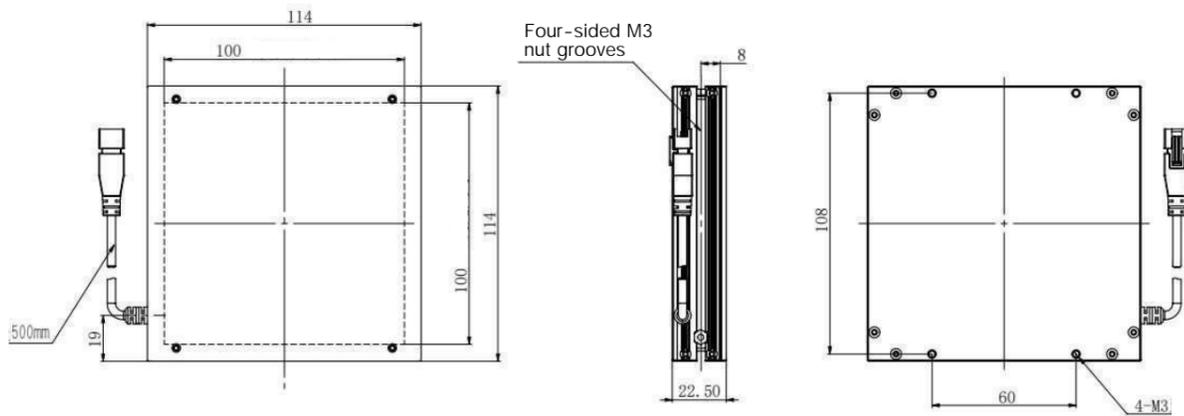


► Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40℃ humidity: 20-85%(Non condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size

KM-2FLP100100



► Product modelling parameter table

Product	Model	Luminous size	Color	Voltage(V)	Power(W)		Boundary dimension(mm)			LED Type	Installation method			Luminous size expansion
					●	●●○	Long	Wide	High		SMD	M3 nut slot	Bottom side installation	
Collimated backlight (2FLP)	KM-2FLP5050	50x50	● ● ○	24V	2.9	2.9	64	64	22.5	✓	✓	✓	The luminous size can be multiplied individually: 10050, 12060, 14070, 16080, 200100, 240120.	
	KM-2FLP6060	60x60	● ● ○	24V	4.3	3.6	74	74	22.5	✓	✓	✓		
	KM-2FLP7070	70x70	● ● ○	24V	5.0	5.4	84	84	22.5	✓	✓	✓		
	KM-2FLP8080	80x80	● ● ○	24V	6.5	6.5	94	94	22.5	✓	✓	✓		
	KM-2FLP9090	90x90	● ● ○	24V	8.6	7.6	104	104	22.5	✓	✓	✓		
	KM-2FLP100100	100x100	● ● ○	24V	9.7	11.5	114	114	22.5	✓	✓	✓		
	KM-2FLP120120	120x120	● ● ○	24V	11.9	13.0	134	134	22.5	✓	✓	✓		
	KM-2FLP150150	150x150	● ● ○	24V	11.9	13.7	164	164	23.5	✓	✓	✓		
	KM-2FLP200150	200x150	● ● ○	24V	15.1	17.5	214	164	23.5	✓	✓	✓		
	KM-2FLP200200	200x200	● ● ○	24V	23.8	22.5	214	214	23.5	✓	✓	✓		
	KM-2FLP250125	250x125	● ● ○	24V	13.0	16.8	264	139	23.5	✓	✓	✓		
	KM-2FLP250250	250x250	● ● ○	24V	25.9	33.7	264	264	23.5	✓	✓	✓		
	KM-2FLP300150	300x150	● ● ○	24V	19.4	27.5	314	164	23.5	✓	✓	✓		
	KM-2FLP300200	300x200	● ● ○	24V	30.2	34.9	314	214	23.5	✓	✓	✓		
	KM-2FLP300300	300x300	● ● ○	24V	47.5	54.9	314	314	23.5	✓	✓	✓		
	KM-2FLP400200	400x200	● ● ○	24V	38.9	44.9	414	214	23.5	✓	✓	✓		
KM-2FLP400300	400x300	● ● ○	24V	60.5	69.9	414	314	23.5	✓	✓	✓			
KM-2FLP400400	400x400	● ● ○	24V	77.8	89.9	414	414	23.5	✓	✓	✓			

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

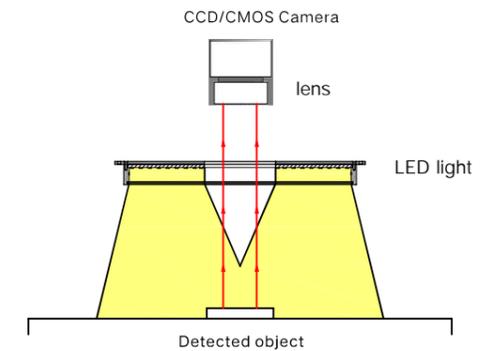
	1 Three-color RGB light source customization	4 Installation and fixed customization
	2 Outer diameter and inner diameter height customization	5 Input wire length customization
	3 Wavelength and color temperature customization	

09 Hole backlight



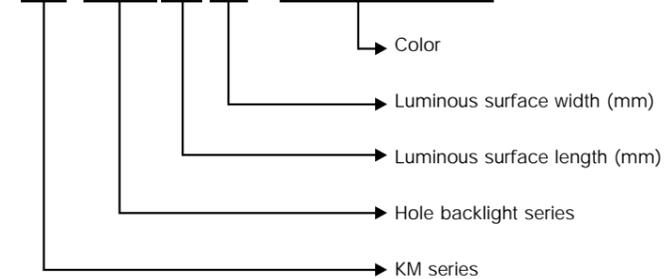
► Application Cases

- Measurement of the four dimensions of the object.
- Edge breakage detection.
- Transparent object impurity detection.



► Selection Guide

KM-2FLH ## ## - R/G/B/W/IR/UV



应用案例 Application Example

Phone case edge detection

The required irradiation area is relatively large, and there is a weak deformation of the shell edge.



Sole contour detection

The front illumination needs to solve the side shadow, and the backlight with better brightness and uniformity is selected according to the shape of the product.

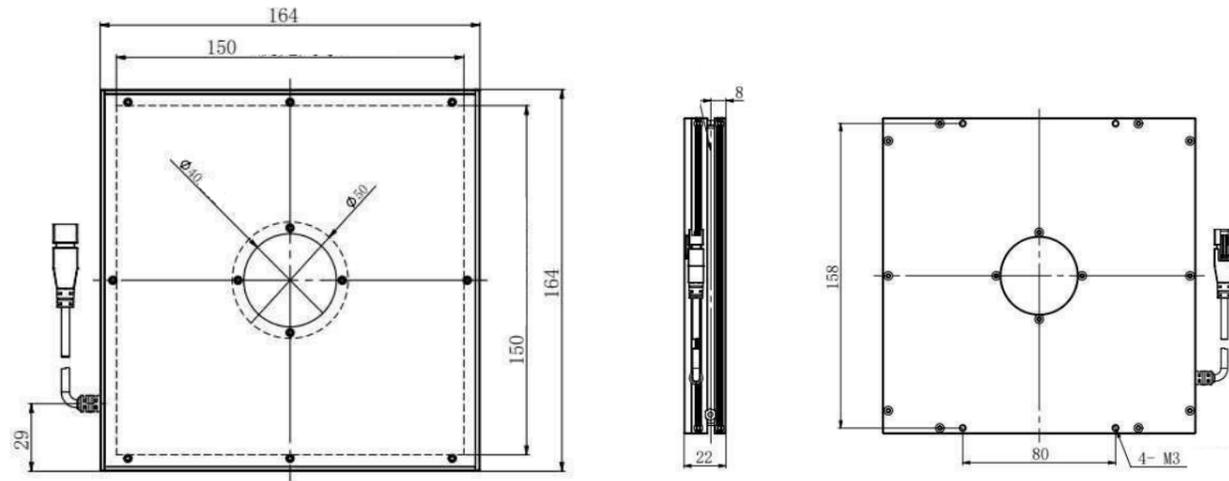


► Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40℃ humidity:20-85%(Non condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size

Model: KM-2FLH150150K40



► Product modelling parameter table

Product	Model	Luminous size	Color	Voltage(V)	Power(W)			Boundary dimension(mm)			LED Type		Remark
					●	●	○	Long	Wide	High	SMD	DIP	
Hole backlight (2FLH)	KM-2FLH150150K40	150x150	—	24V	—	12.5	164	164	21	✓			
	KM-2FLH200200K50	200x200	—	24V	—	20.9	214	214	21	✓			
	KM-2FLH250250K50	250x250	—	24V	—	32.4	264	264	21	✓			
	KM-2FLH300300K50	300x300	—	24V	—	53.7	414	414	21	✓			
	KM-2FLH400300K55	400x300	—	24V	—	67.4	414	314	21	✓			
	KM-2FLH400400K55	400x400	—	24V	—	88	414	414	21	✓			

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

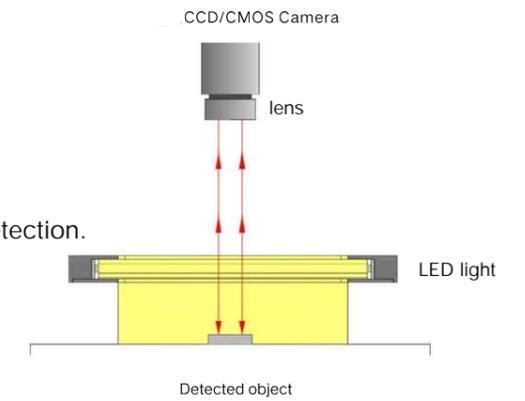
	1 Three-color RGB light source customization	4 Installation and fixed customization
	2 Outer diameter and inner diameter height customization	5 Input wire length customization
	3 Wavelength and color temperature customization	

10
Flat shadowless light



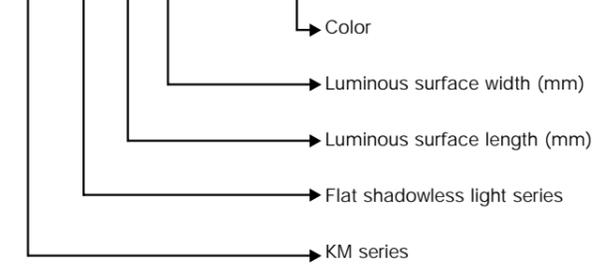
► Application Cases

- Defect detection of objects with uneven surfaces.
- Appearance inspection of electronic components, etc.
- Arc surface character detection, cylinder surface detection.
- Packaging character recognition, canned surface printing detection.

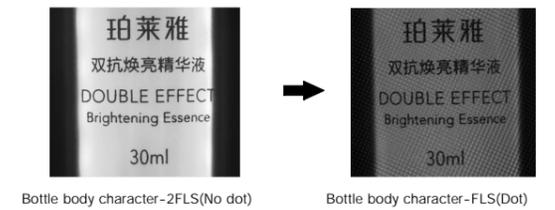


► Selection Guide

KM-FLS ## ## - R/G/B/W/IR/UV



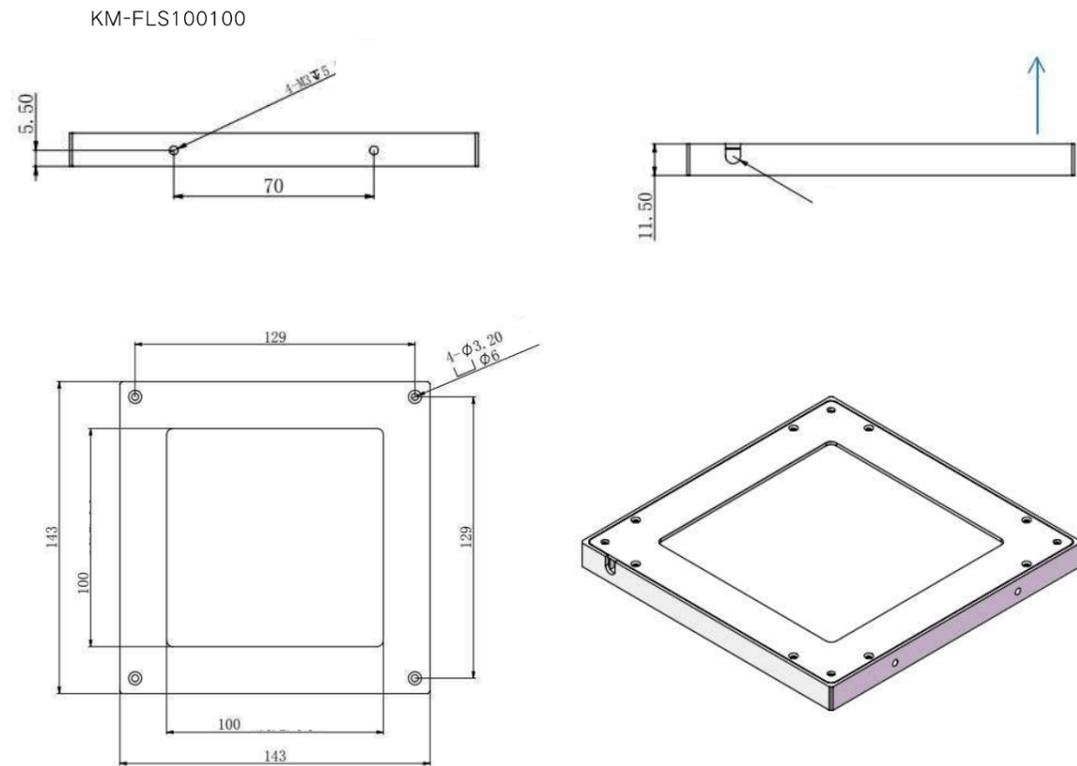
Application Example



► Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40℃ humidity:20-85%(Non condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size



► Product modelling parameter table

Product	Model	Luminous size(mm)	Color	Voltage(V)	Power(W)		Boundary dimension(mm)			LED Type		Remark
					●	○				SMD	DIP	
Flat shadowless light (FLS)	KM-FLS5050	50x50	● ○	24V	2.8	5.5	93	93	11.5	✓		
	KM-FLS100100	100x100	● ○	24V	5.5	8.5	143	143	11.5	✓		
	KM-FLS150150	150x150	● ○	24V	8.5	11	193	193	12.5	✓		
	KM-FLS200150	200x150	● ○	24V	10	12.5	243	193	12.5	✓		
	KM-FLS200200	200x200	● ○	24V	11.2	14	243	243	12.5	✓		
	KM-2FLS5050	50x50	● ○	24V	2.8	5.5	90	90	10	✓		
	KM-2FLS100100	100x100	● ○	24V	5.5	8.5	140	140	10	✓		
	KM-2FLS150150	150x150	● ○	24V	8.5	11	190	190	11	✓		

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

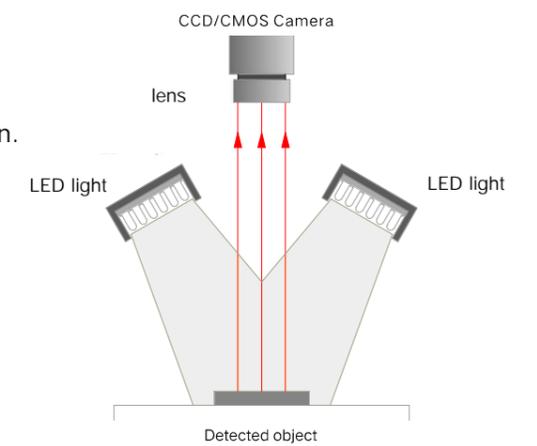
	1 Three-color RGB light source customization	4 Installation and fixed customization
	2 Outer diameter and inner diameter height customization	5 Input wire length customization
	3 Wavelength and color temperature customization	

11
Bar light

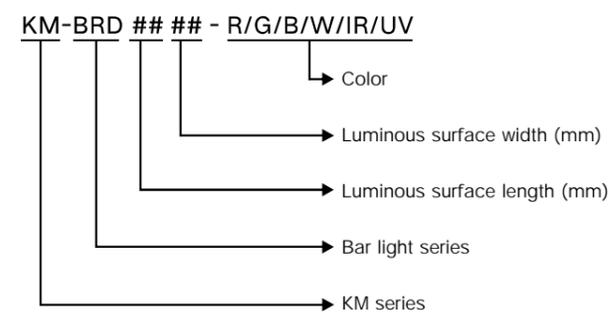


► Application Cases

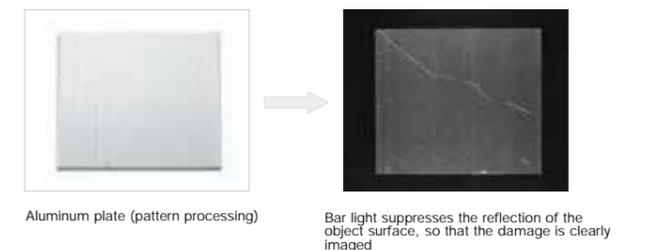
- PCB substrate inspection, plastic container inspection.
- Microscope illumination, general appearance inspection.
- Chip and glass substrate scratch and stain detection.
- LCD correction, font label detection.



► Selection Guide



Application Example

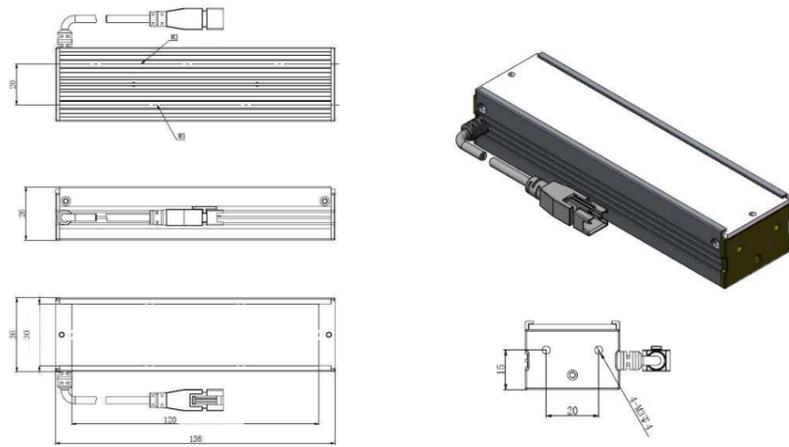


► Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40℃ humidity:20-85%(Non condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size

KM-2BRD12030



► Product modelling parameter table

Product	Model	Luminous size(mm)	Color	Voltage(V)	Power(W)		Boundary dimension(mm)			LED Type		Uniform light plate
					●	●●○	Long	Wide	High	SMD	DIP	
Bar light (2BRD)	KM-2BRD6020	60x20	● ●●○	24V	1.4	1.4	76	26	26	✓		✓
	KM-2BRD9020	90x20	● ●●○	24V	2.2	2.2	106	26	26	✓		✓
	KM-2BRD12020	120x20	● ●●○	24V	2.8	2.8	136	26	26	✓		✓
	KM-2BRD15020	150x20	● ●●○	24V	3.3	3.6	166	26	26	✓		✓
	KM-2BRD18020	180x20	● ●●○	24V	4.2	4.2	196	26	26	✓		✓
	KM-2BRD20020	200x20	● ●●○	24V	4.7	5	216	26	26	✓		✓
	KM-2BRD24020	240x20	● ●●○	24V	5.6	5.6	256	26	26	✓		✓
	KM-2BRD30020	300x20	● ●●○	24V	7	7	316	26	26	✓		✓
	KM-2BRD36020	360x20	● ●●○	24V	8.4	8.4	376	26	26	✓		✓
	KM-2BRD42020	420x20	● ●●○	24V	9.8	9.8	436	26	26	✓		✓
	KM-2BRD48020	480x20	● ●●○	24V	11.2	11.2	496	26	26	✓		✓
	KM-2BRD6030	60x30	● ●●○	24V	2.2	2.2	76	36	26	✓		✓
	KM-2BRD9030	90x30	● ●●○	24V	2.5	3.8	106	36	26	✓		✓
	KM-2BRD12030	120x30	● ●●○	24V	4.4	4.4	136	36	26	✓		✓
	KM-2BRD15030	150x30	● ●●○	24V	5.5	5.5	166	36	26	✓		✓
	KM-2BRD18030	180x30	● ●●○	24V	6	6.6	196	36	26	✓		✓
	KM-2BRD20030	200x30	● ●●○	24V	6.5	7.5	216	36	26	✓		✓
	KM-2BRD24030	240x30	● ●●○	24V	8.8	8.8	256	36	26	✓		✓
	KM-2BRD30030	300x30	● ●●○	24V	11	11	316	36	26	✓		✓
	KM-2BRD36030	360x30	● ●●○	24V	13.2	13.2	376	36	26	✓		✓
KM-2BRD42030	420x30	● ●●○	24V	15.4	15.4	436	36	26	✓		✓	
KM-2BRD48030	480x30	● ●●○	24V	17.6	17.6	496	36	26	✓		✓	

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

	1 Three-color RGB light source customization	4 Installation and fixed customization
	2 Outer diameter and inner diameter height customization	5 Input wire length customization
	3 Wavelength and color temperature customization	

12 Spot light

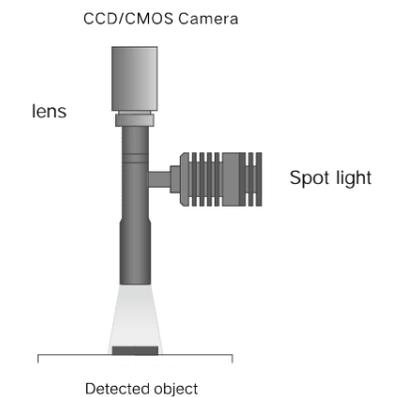
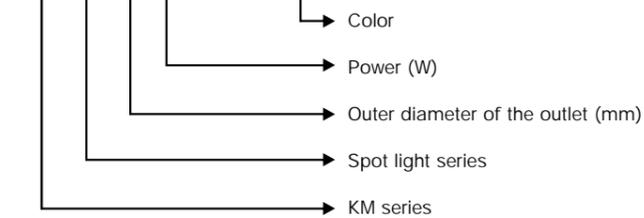


► Application Cases

- Micro element detection.
- LCD panel detection.
- Wafer, liquid crystal glass base calibration.
- Chip detection, Mark point positioning.
- Installation space smaller vision system environment applications.

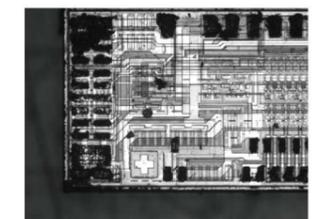
► Selection Guide

KM-SP ## ## - R/G/B/W/UV



Application Example

Mobile phone circuit board Mark point to point detection

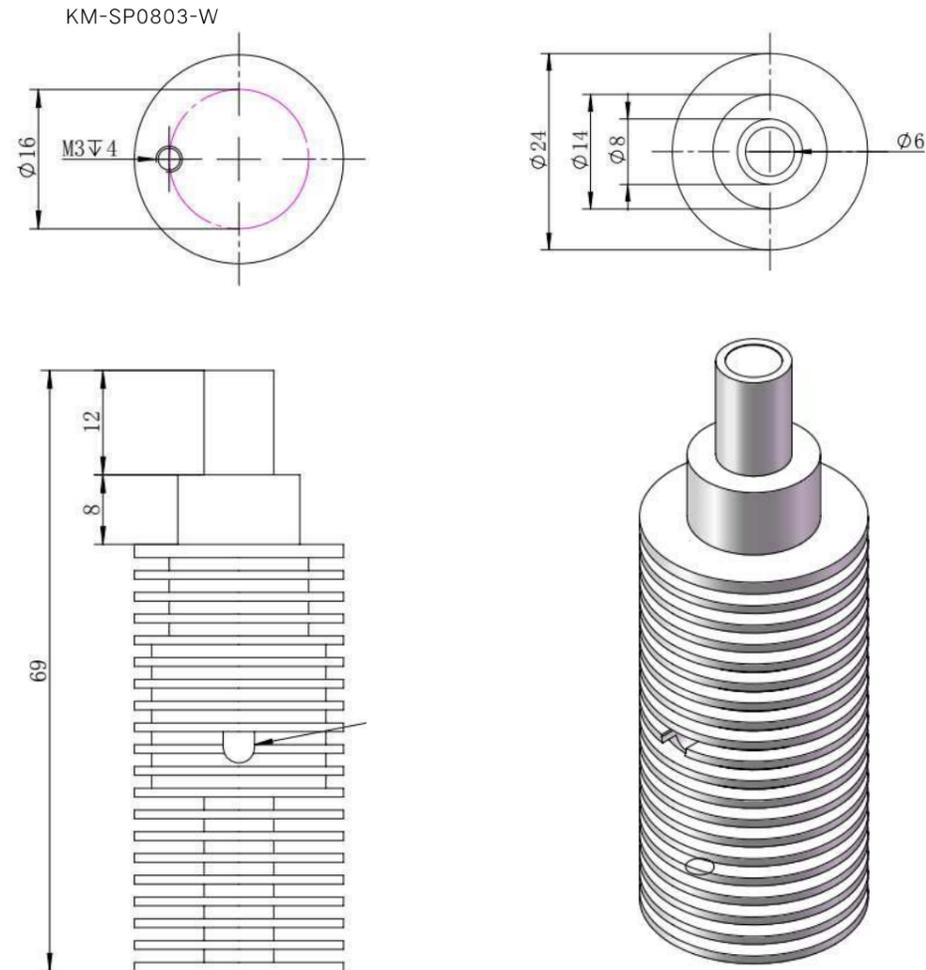


Small field of view, high light uniformity requirements. With point light and coaxial light lens irradiation, convex Mark point, high accuracy of positioning.

► Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40℃ humidity:20-85%(Non condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size



► Product modelling parameter table

Product	Model	Luminous size(mm)		Color	Voltage (V)	Power(W)	Boundary dimension(mm)		LED Type
		Outsid diameter	Inside diameter				Outsid diameter	High	
Spot light (SP)	KM-SP2403	24	22	● ● ●	3V	3w	30	120	SMD
	KM-SP2.0-0803	08	06	● ● ●	3V	3w	30	69.5	SMD
	KM-SP0803	08	06	● ● ●	3V	3w	24	69	SMD

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

	1 Outer diameter and highly customization	4 Installation and fixed customization
	2 Wavelength and color temperature customization	5 Input wire length customization

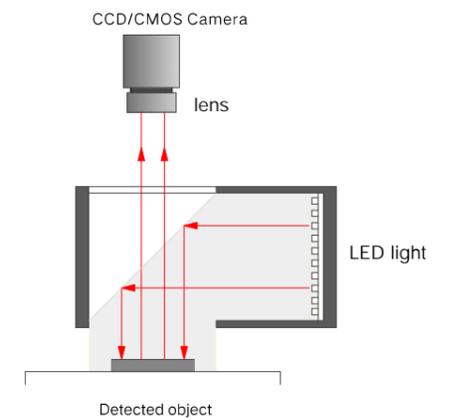
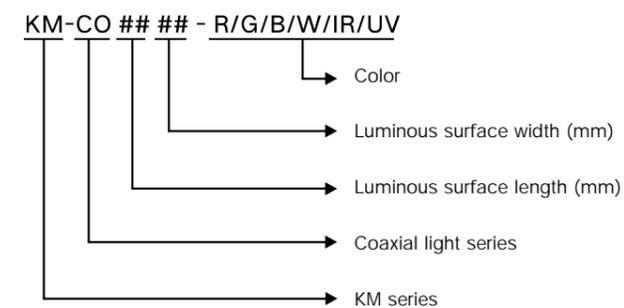
13 Coaxial light



► Application Cases

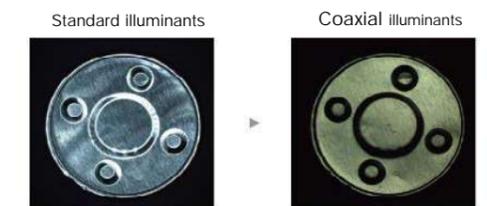
- Mark point positioning.
- Two-dimensional code detection.
- Chip, chip breakage detection.
- Screen printing positioning.
- Scratch detection of metal, glass bottles and other highly reflective surface objects.

► Selection Guide



Application Example

- Detecting objects (stamped parts)



The edges are not distinct and diffuse and specular reflected light is received by the CCD.

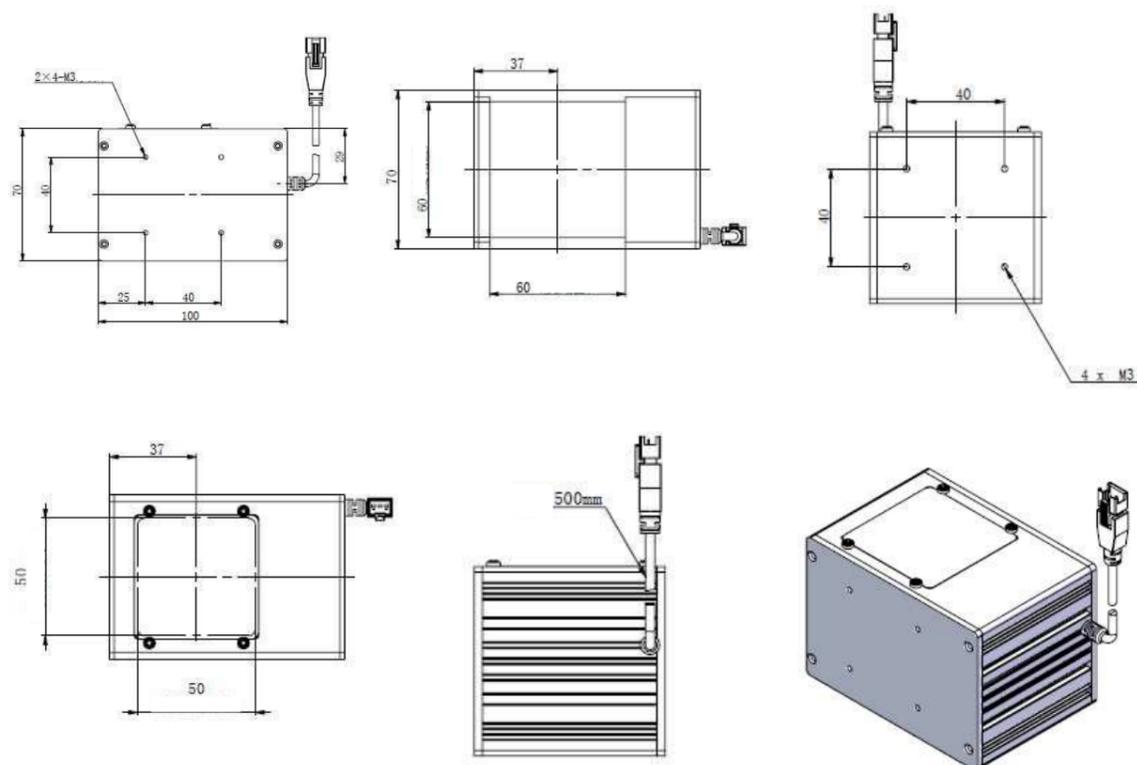
The spread of light in the depressed area appears darker and is therefore easier to identify.

► Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40℃ humidity:20-85%(Non condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size

KM-3CO6060



► Product modelling parameter table

Product	Light type	Model	Luminous size(mm)	Color	Voltage(V)	Power(W)		Boundary dimension(mm) Long X Wide X High	LED Type
						●	○		
Coaxial light (CO/COG)	Standard type	KM-3CO2020	20x20	●●○	24V	2.1	2.8	50X28X28	✓
		KM-3CO3030	30x30	●●○	24V	3.5	4	65x38x38	✓
		KM-3CO4040	40x40	●●○	24V	5	6	78x48x50	✓
		KM-3CO6060	60x60	●●○	24V	7.5	11	100x70x70	✓
		KM-CO2.0-3535	35x35	●●○	24V	2.6	3.4	70x44x47.5	✓
		KM-CO2.0-5050	50x50	●●○	24V	4.5	5.7	100x60x67.5	✓
	High light type	KM-CO2.0-7070	70x70	●●○	24V	6	11	110X82X84.5	✓
		KM-3COG3030	30x30	●●○	24V	7	9	79.5X38X38	✓
		KM-3COG4040	40x40	●●○	24V	13	14.5	95X48X50	✓
		KM-3COG6060	60x60	●●○	24V	27.5	18	127X70X70	✓

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

	1 Three-color RGB light source customization	4 Installation and fixed customization
	2 Luminescent surface size customization	5 Input wire length customization
	3 Wavelength and color temperature customization	6 Light mouth dustproof mirror customization

14 Collimation light

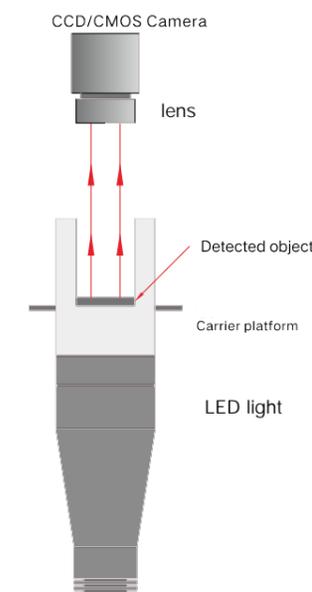
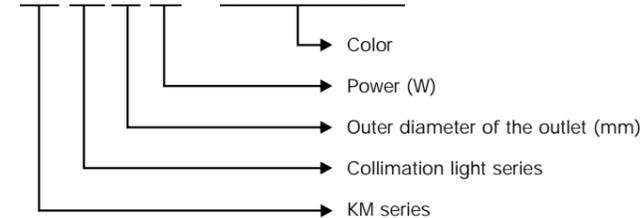


► Application Cases

- 1 Profile measurement and detection of subtle defects on smooth surfaces.
- 2 High precision dimension measurement.

► Selection Guide

KM-SPP ## ## - R/G/B/W/IR/UV



► Special tailor-made

颜色 Color

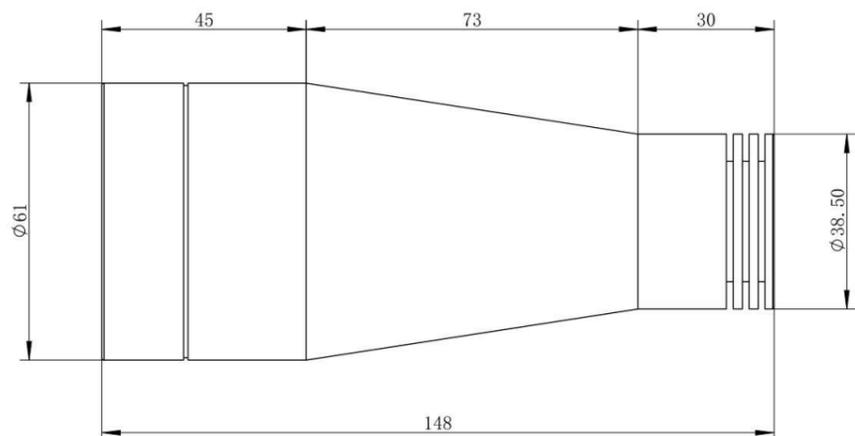
外形尺寸 Mount method

安装方式 Mount method

连接器 Shape and size

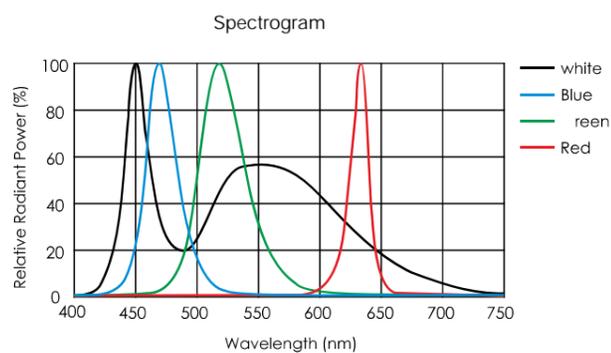
发光面 Connector

► Product size



► Product modelling parameter table

Serial number	Model	Voltage ●	Voltage ○●●	Light beam
1	KM-SPP505-W	1A/2.7W	1.2A/5W	50mm

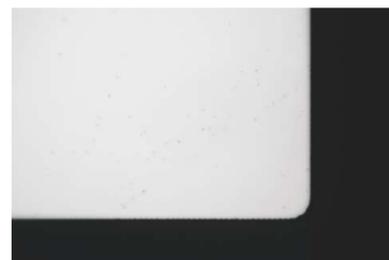
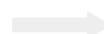


► Application case

Mobile phone screen frame positioning detection



Physical map



Design sketch

15

Line scan light

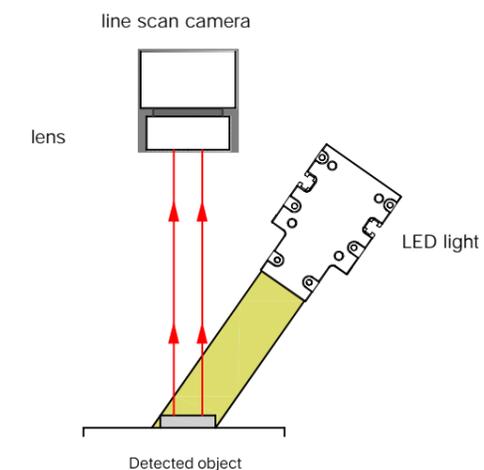
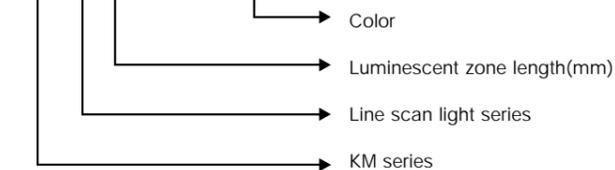


► Application Cases

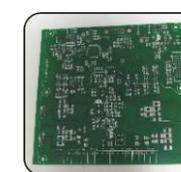
- Packaging printing inspection.
- Tile pattern detection.
- Metal panel defect detection.

► Selection Guide

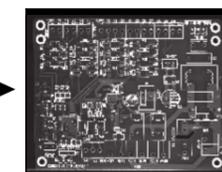
KM-LI ## - R/G/B/W/IR/UV



Application Example



Printed character detection



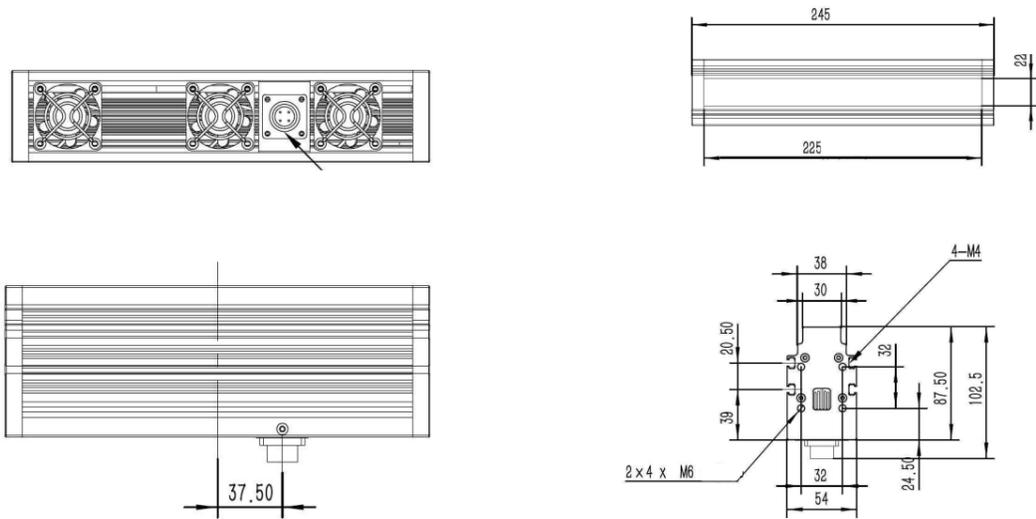
The light blackens the background and enhances the contrast of white characters.

► Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40°C humidity:20-85%(Non condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size

KM-3LI22522



► Product modelling parameter table

Product	Model	Luminous size(mm)	Color	Voltage (V)	Power(W)			Boundary dimension(mm)			Weight (KG)	Plug specification	Power cord
					●	●	○	Long	Wide	High			
Line scan light (3LI)	KM-3LI7522	75x22	● ● ○	24V	20	31	95	54	102.5	0.6	W516 aviation plug 4-core	Selective assembly	
	KM-3LI15022	150x22	● ● ○	24V	40	62	170	54	102.5	1.0	W516 aviation plug 4-core	Selective assembly	
	KM-3LI22522	225x22	● ● ○	24V	60	93	245	54	102.5	1.4	W516 aviation plug 4-core	Selective assembly	
	KM-3LI30022	300x22	● ● ○	24V	80	124	320	54	102.5	1.8	W516 aviation plug 4-core	Selective assembly	
	KM-3LI37522	375x22	● ● ○	24V	100	155	395	54	102.5	2.3	W520 aviation plug 4-core	Selective assembly	
	KM-3LI45022	450x22	● ● ○	24V	120	186	470	54	102.5	2.7	W520 aviation plug 4-core	Selective assembly	
	KM-3LI52522	525x22	● ● ○	24V	140	217	545	54	102.5	3.1	W520 aviation plug 4-core	Selective assembly	
	KM-3LI60022	600x22	● ● ○	24V	160	248	620	54	102.5	3.5	W520 aviation plug 4-core	Selective assembly	
	KM-3LI67522	675x22	● ● ○	24V	180	279	695	54	102.5	3.9	W520 aviation plug 4-core	Selective assembly	
	KM-3LI75022	750x22	● ● ○	24V	200	310	770	54	102.5	4.4	W520 aviation plug 4-core	Selective assembly	
	KM-3LI82522	825x22	● ● ○	24V	220	341	845	54	102.5	4.8	W520 aviation plug 4-core	Selective assembly	
	KM-3LI90022	900x22	● ● ○	24V	240	372	920	54	102.5	5.2	W520 aviation plug 4-core	Selective assembly	
	KM-3LI97522	975x22	● ● ○	24V	260	403	995	54	102.5	5.6	W520 aviation plug 4-core	Selective assembly	
	KM-3LI105022	1050x22	● ● ○	24V	280	434	1070	54	102.5	6.0	W520 aviation plug 4-core	Selective assembly	
	KM-3LI112522	1125x22	● ● ○	24V	300	465	1145	54	102.5	6.5	W520 aviation plug 4-core	Selective assembly	
	KM-3LI120022	1200x22	● ● ○	48V	320	496	1220	54	102.5	6.9	W520 aviation plug 6-core	Selective assembly	
	KM-3LI135022	1350x22	● ● ○	48V	360	558	1370	54	102.5	7.3	W520 aviation plug 6-core	Selective assembly	
	KM-3LI150022	1500x22	● ● ○	48V	400	620	1520	54	102.5	7.7	W520 aviation plug 6-core	Selective assembly	
	KM-3LI165022	1650x22	● ● ○	48V	440	682	1670	54	102.5	8.1	W520 aviation plug 6-core	Selective assembly	
	KM-3LI180022	1800x22	● ● ○	48V	480	744	1820	54	102.5	8.6	W520 aviation plug 6-core	Selective assembly	
	KM-3LI195022	1950x22	● ● ○	48V	520	806	1970	54	102.5	9.0	W520 aviation plug 6-core	Selective assembly	
	KM-3LI210022	2100x22	● ● ○	48V	560	868	2120	54	102.5	9.4	W520 aviation plug 6-core	Selective assembly	
	KM-3LI225022	2250x22	● ● ○	48V	600	930	2270	54	102.5	9.8	W520 aviation plug 6-core	Selective assembly	
	KM-3LI240022	2400x22	● ● ○	48V	640	992	2420	54	102.5	10.2	W520 aviation plug 6-core	Selective assembly	

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

	1 Three-color RGB light source customization	4 Installation and fixed customization
	2 Outer diameter and inner diameter height customization	5 Input wire length customization
	3 Wavelength and color temperature customization	

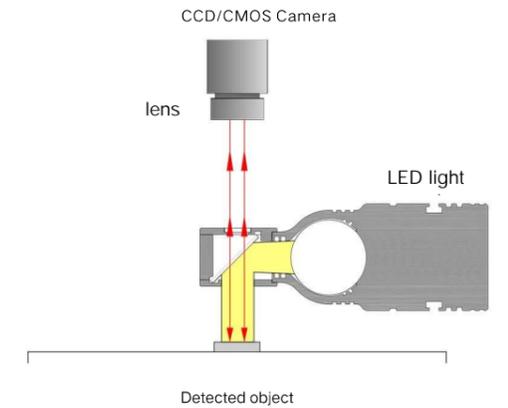
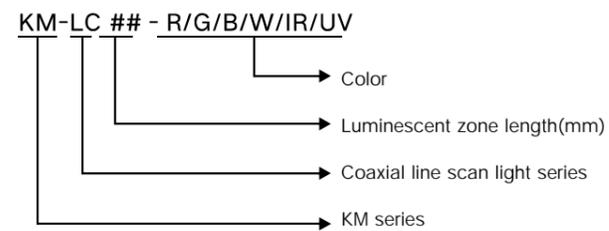
16 Coaxial line scan light



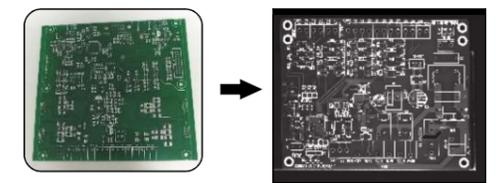
► Application Cases

- High-speed line detection.
- High reflective workpiece surface detection.
- Print quality inspection.

► Selection Guide



Application Example



Printed character detection

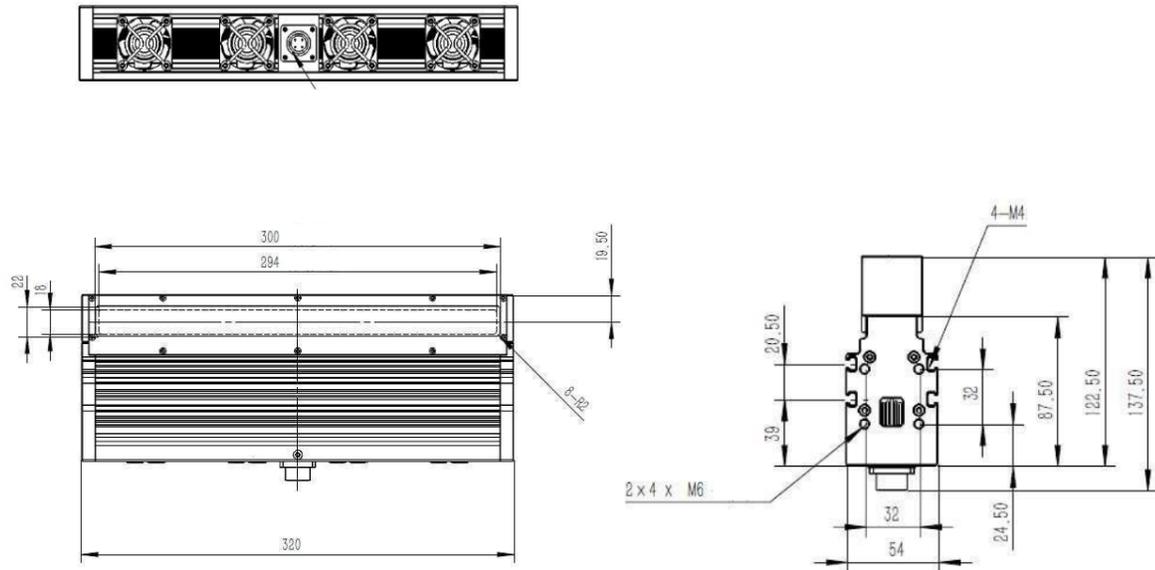
The light blackens the background and enhances the contrast of white characters.

► Technical indicators

Light color(wave length)	red:620-630nm blue:460-470nm	green:520-530nm white color temperature:6000-7500k
Operating environment(Indoor)	temperature:0-40℃ humidity:20-85%(Non condensing)	
Working life	white:30000 hours,red:30000 hours (The value varies according to the use environment)	
Quality service	Provide one year product warranty, provide technical support	
Product design	Provide design and development services according to user needs to achieve the best imaging effect	

► Product size

KM-3LC30022



► Product modelling parameter table

Product	Model	Luminous size(mm)	Color	Voltage (V)	Power(W)			Boundary dimension(mm)			Weight (KG)	Plug specification	Power cord
					●	●	○	Long	Wide	High			
同轴线光源 (3LC)	KM-3LC7522	75x22	● ● ○	24V	20	31	95	54	137.5	0.8	WS16 aviation plug 4-core	Selective assembly	
	KM-3LC15022	150x22	● ● ○	24V	40	62	170	54	137.5	1.3	WS16 aviation plug 4-core	Selective assembly	
	KM-3LC22522	225x22	● ● ○	24V	60	93	245	54	137.5	1.8	WS16 aviation plug 4-core	Selective assembly	
	KM-3LC30022	300x22	● ● ○	24V	80	124	320	54	137.5	2.3	WS16 aviation plug 4-core	Selective assembly	
	KM-3LC37522	375x22	● ● ○	24V	100	155	395	54	137.5	2.8	WS20 aviation plug 4-core	Selective assembly	
	KM-3LC45022	450x22	● ● ○	24V	120	186	470	54	137.5	3.3	WS20 aviation plug 4-core	Selective assembly	
KM-3LC52522	525x22	● ● ○	24V	140	217	545	54	137.5	3.8	WS20 aviation plug 4-core	Selective assembly		

The difference between the actual product power and the power meter content of ±10% is the normal range

Customization Options:

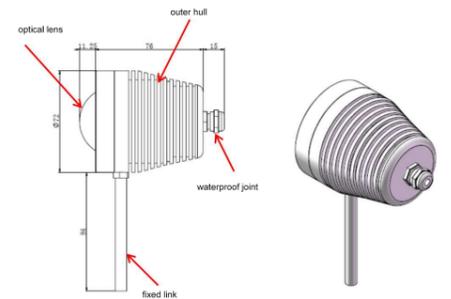
	1 Three-color RGB light source customization	4 Installation and fixed customization
	2 Outer diameter and inner diameter height customization	5 Input wire length customization
	3 Wavelength and color temperature customization	

17
Near infrared light



► Fundamental Function

- Provides stable 850nm near-infrared light for machine vision systems.
- Intelligent overtemperature protection, high brightness, uniform light shift.
- Small size, light weight, easy to install.
- Used in automation machinery, industrial robots, mold protection, non-destructive testing, sorting testing, intelligent transportation and other fields



► Model

Model	Radiation energy	Power/CH	Transmission voltage
KM-SL7275	Po > 2600MW	10W	24V

► Technical parameter

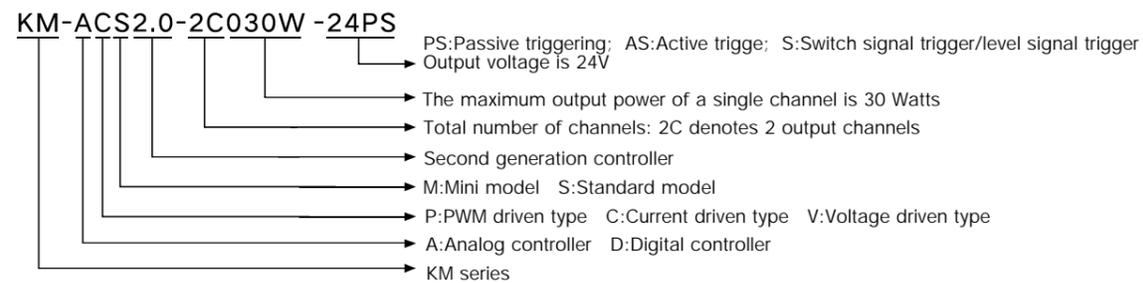
Light-emitting wafer	Industrial near infrared LED
wavelength	850nm
quantity of radiant energy	Po > 2600MW
Beam mode	120
input voltage	DC12-24V
power	10W
Control mode	Always on, strobe, switch value, level (optional)
operating ambient temperature	-40°C-55°C (refrigeration cover can be installed on high-temperature industrial site)
the protection grades	Ip67 Weight: 350g
structure	Aeronautical aluminum heat dissipation shell+original spherical lens
Mounting base	¼"-20
surface treatment	Anodic oxidation blackening

Controller series

▶ Controller usage

The main purpose is to provide power to the light source, control the brightness of the light source and lighting state (on, off). By giving the controller a trigger signal to realize the strobe of the light source, and then prolong the life of the light source. The controller is divided into two categories: standard type and Mini type. The digital controller can be controlled remotely by PC equipment, and different types of controllers are selected according to different actual production conditions.

▶ Selection Guide



▶ Product modelling panamer table

Product	Category	Type of drive	Model	Input voltage	Channel	Max. output voltage	Output power		Trigger
							Max. per channel	Total power	
Ordinary type controller	Ordinary	Analog	KM-ACS-2C005W-24PS	AC220V	2	24V	5W	10W	✓
			KM-ACS-2C012W-24PS	AC220V	2	24V	12W	24W	
			KM-ACS-2C005W-12PS	AC220V	2	12V	5W	10W	
			KM-ACS-2C010W-12PS	AC220V	4	12V	10W	20W	
			KM-ACS-2C003W-5PS	AC220V	2	5V	3W	6W	
	Mini	Digital	KM-ACS-2C010W-5PS	AC220V	4	5V	10W	20W	
			KM-DCS-1C200W-24PS	AC220V	1	24V	200W	200W	
			KM-DCS-1C600W-24PS	AC220V	1	24V	600W	600W	
			KM-DCS-2C150W-24PS	AC220V	2	24V	150W	300W	
			KM-DCS-2C200W-24PS	AC220V	2	24V	200W	400W	
Upgraded controller	Ordinary	Analog	KM-DCS-2C300W-24PS	AC220V	2	24V	300W	600W	
			KM-DCS-4C080W-24PS	AC220V	4	24V	80W	320W	
			KM-DCM-2C100W-24S	DC24V	2	24V	100W	200W	
			KM-DCM-1C150W-24S	DC24V	2	24V	150W	150W	
			KM-ACS2.0-2C030W-24PS	AC220V	2	24V	30W	60W	
	Mini	Digital	KM-ACS2.0-2C060W-24PS	AC220V	2	24V	60W	120W	
			KM-ACS2.0-4C015W-24PS	AC220V	4	24V	15W	60W	
			KM-ACS2.0-4C030W-24PS	AC220V	4	24V	30W	120W	
			KM-DCS2.0-2C012W-24PS	AC220V	2	24V	12W	24W	
			KM-DCS2.0-2C030W-24PS	AC220V	2	24V	30W	60W	
Mini	Digital	KM-DCS2.0-2C060W-24PS	AC220V	2	24V	60W	120W		
		KM-DCS2.0-4C015W-24PS	AC220V	4	24V	15W	60W		
		KM-DCS2.0-4C030W-24PS	AC220V	4	24V	30W	120W		
		KM-DCM2.0-2C030W-24PS	DC24V	2	24V	30W	60W		
		KM-DCM2.0-2C060W-24PS	DC24V	2	24V	60W	120W		
Mini	Digital	KM-DCM2.0-4C015W-24PS	DC24V	4	24V	15W	60W		
		KM-DCM2.0-4C030W-24PS	DC24V	4	24V	30W	120W		

Two channel standard analog controller



- ✓ Exquisite appearance
- ✓ Easy installation
- ✓ Add guide buckle
- ✓ Easy operation
- ✓ Operation panel front
- ✓ Noiseless fan
- ✓ High power
- ✓ Strong heat dissipation
- ✓ Constant current stable output/no strobe

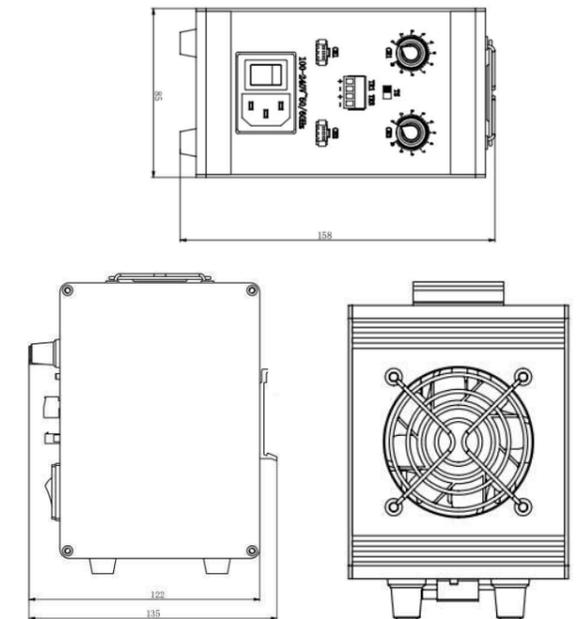
▶ Explanation

A:Analog controller
 D:Digital controller
 S:Standard model
 2.0:Second generation controller
 2C:Denotes 2 output channels
 030W:The maximum output power of a single channel is 30 Watts
 24:Output voltage is 24V
 PS:Passive triggering

▶ Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-ACS2.0-2C030W-24PS	2	30W	24V	✓
KM-ACS2.0-2C060W-24PS	2	60W	24V	✓

Project	Arguments	Description
Control mode	Constant current	-
Input voltage	100-220VAC	-
Output voltage range	DC14V~24V	-
Channel	2 Channel	-
Adjust brightness level range	Electrodeless	Adjust by potentiometer
Max. power output /channel	30W	-
External trigger mode	Passive triggering	Effective trigger voltage range 5-24V DC
External trigger delay time	H, ON →OFF < 15us	H: High level trigger
	H, OFF →ON < 15us	ON, OFF: LED light source on, off state
External trigger frequency	< 1/T	Determined by the strobe time, such as T=1ms, the external trigger frequency is at most 1KHz
Work environment	Temperature: -10~50°C	-
	Humidity: 20~80%	-
Storage environment	Temperature: -20~70°C	-
	Humidity: 10~90%	-
Stand-by power consumption	< 3W	-
Boundary dimension(mm)	135 × 85 × 158mm	LxWxH
Weight	0.9Kg	-



Four channel standard analog controller



- ✓ Exquisite appearance
- ✓ Easy installation
- ✓ Add guide buckle
- ✓ Easy operation
- ✓ Operation panel front
- ✓ Noiseless fan
- ✓ High power
- ✓ Strong heat dissipation
- ✓ Constant current stable output/no strobe

► Explanation

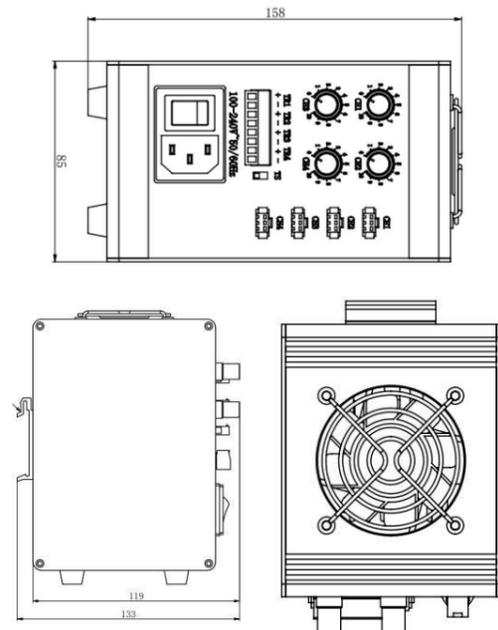
ACS2.0-4C030W-24PS

A:Analog controller
 C:Current driven type
 S:Standard model
 2.0:Second generation controller
 4C:Denotes 4 output channels
 030W:The maximum output power of a single channel is 30 Watts
 24:Output voltage is 24V
 PS:Passive triggering

Project	Arguments	Description
Control mode	Constant current	-
Input voltage	100-220VAC	-
Output voltage range	DC14V~24V	-
Channel	4Channel	-
Adjust brightness level range	Electrodeless	Adjust by potentiometer
Max. power output /channel	30W	-
External trigger mode	Passive triggering	Effective trigger voltage range: 5-24V DC
External trigger delay time	H, ON →OFF <15us	H, : High level trigger ON、OFF : LED light source on, off state
	H, OFF →ON <15us	
External trigger frequency	< 1/T	Determined by the strobe time, such as T=1ms, the external trigger frequency is at most 1KHz
Work environment	Temperature: -10~50°C Humidity: 20~80%	-
Storage environment	Temperature: -20~70°C Humidity: 10~90%	-
Stand-by power consumption	<3W	-
Boundary dimension(mm)	135x85x158mm	LxWxH
Weight	0.9Kg	-

► Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-ACS2.0-4C015W-24PS	4	15W	24V	✓
KM-ACS2.0-4C030W-24PS	4	30W	24V	✓



Two channel mini digital controller



- ✓ Exquisite appearance
- ✓ Easy installation
- ✓ Add guide buckle
- ✓ Easy operation
- ✓ Operation panel front
- ✓ Noiseless fan
- ✓ High power
- ✓ Strong heat dissipation
- ✓ Constant current stable output/no strobe

► Explanation

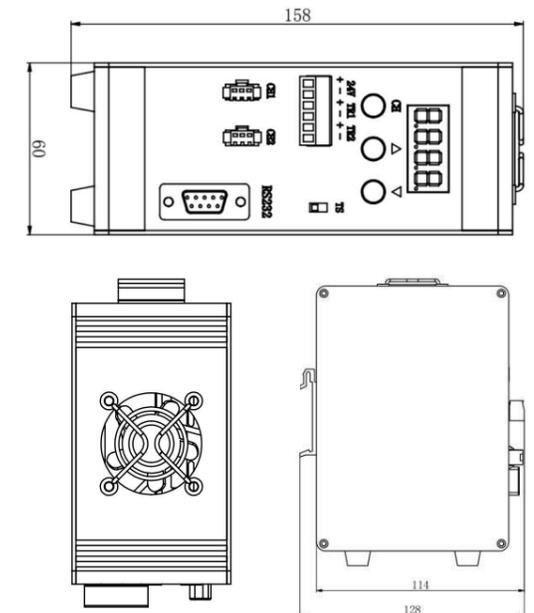
DCM2.0-2C030W-24PS

D:Digital controller
 C:Current driven type
 M:Mini model
 2.0:Second generation controller
 2C:Denotes 2 output channels
 030W:The maximum output power of a single channel is 30 Watts
 24:Output voltage is 24V
 PS:Passive triggering

Project	Arguments	Description
Control mode	Constant current	-
Input voltage	DC24V	-
Input power	60W	The minimum input power depends on the maximum power of the load
Output voltage range	DC14.0~24.0V	-
Channel	2 Channel	-
Manual adjustment	✓	Adjust by key
Remote adjustment	✓	Through the upper computer software adjustment
Luminance level memory	✓	The adjustment is completed, and the memory is automatically remembered after 8 seconds
RS232 communication baud rate	9600	-
Adjustable brightness level	Level 255	Long press the rough adjustment, short press fine adjustment; it can also be adjusted by the PC software
Max. power output /channel	30W	-
External trigger mode	Passive triggering	Effective trigger voltage range: 5-24V DC
External trigger delay time	H, ON →OFF <15us	H, stands for high level trigger; ON、OFF represent the light and off states of the LED light source
	H, OFF →ON <15us	
External trigger frequency	< 1/T	Determined by the strobe time, such as T=1ms, the external trigger frequency is at most 1KHz
Work environment	Temperature: -10~50°C Humidity: 20~80%	-
Storage environment	Temperature: -20~70°C Humidity: 10~90%	-
Stand-by power consumption	< 1W	-
Boundary dimension(mm)	128x60x 158mm	LxWxH
Weight	0.7Kg	-

► Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-DCM2.0-2C003W-5PS	2	3W	5V	✓
KM-DCM2.0-2C010W-12PS	2	10W	12V	✓
KM-DCM2.0-2C030W-24PS	2	30W	24V	✓
KM-DCM2.0-2C060W-24PS	2	60W	24V	✓



Four channel mini digital controller



- ✓ Exquisite appearance
- ✓ Easy installation
- ✓ Add guide buckle
- ✓ Easy operation
- ✓ Operation panel front
- ✓ Noiseless fan
- ✓ High power
- ✓ Strong heat dissipation
- ✓ Constant current stable output/no strobe

Explanation

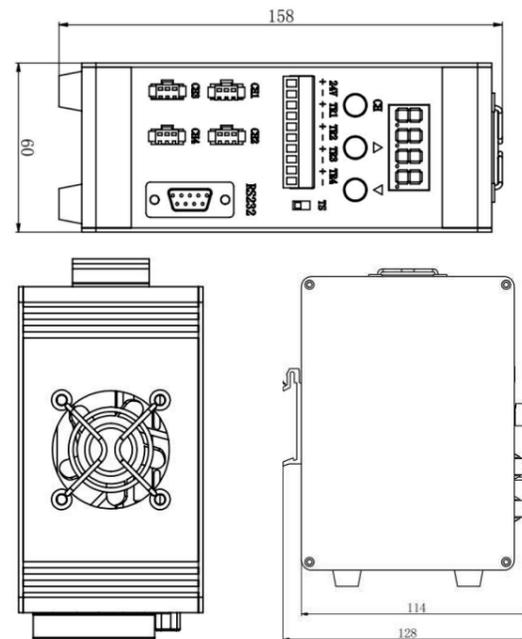
DCM2.0-4C030W-24PS

D:Digital controller
 C:Current driven type
 M:Mini model
 2.0:Second generation controller
 4C:Denotes 4 output channels
 030W:The maximum output power of a single channel is 30 Watts
 24:Output voltage is 24V
 PS:Passive triggering

Project	Arguments	Description
Control mode	Constant current	-
Input voltage	DC24V	-
Input power	120W	The minimum input power depends on the maximum power of the load
Output voltage range	DC14.0~24.0V	-
Channel	2 Channel	-
Manual adjustment	✓	Adjust by key
Remote adjustment	✓	Through the upper computer software adjustment
Luminance level memory	✓	The adjustment is completed, and the memory is automatically remembered after 8 seconds
RS232 communication baud rate	9600	-
Adjustable brightness level	Level 255	Long press the rough adjustment, short press fine adjustment; it can also be adjusted by the PC software
Max. power output /channel	30W	-
External trigger mode	Passive triggering	Effective trigger voltage range: 5-24V DC
External trigger delay time	H, ON →OFF <15us	H, stands for high level trigger; ON, OFF represent the light and off states of the LED light source
	H, OFF →ON <15us	
External trigger frequency	<1/T	Determined by the strobe time, such as T=1ms, the external trigger frequency is at most 1KHz
Work environment	Temperature: -10~50°C	-
	Humidity: 20~80%	-
Storage environment	Temperature: -20~70°C	-
	Humidity: 10~90%	-
Stand-by power consumption	< 1W	-
Boundary dimension(mm)	128x60x 158mm	LxWxH
Weight	0.7Kg	

Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-DCM2.0-4C003W-5PS	4	3W	5V	✓
KM-DCM2.0-4C010W-12PS	4	10W	12V	✓
KM-DCM2.0-4C015W-24PS	4	15W	24V	✓
KM-DCM2.0-4C030W-24PS	4	30W	24V	✓



Two channel standard digital controller



- ✓ Exquisite appearance
- ✓ Easy installation
- ✓ Add guide buckle
- ✓ Easy operation
- ✓ Operation panel front
- ✓ Noiseless fan
- ✓ High power
- ✓ Strong heat dissipation
- ✓ Constant current stable output/no strobe

Explanation

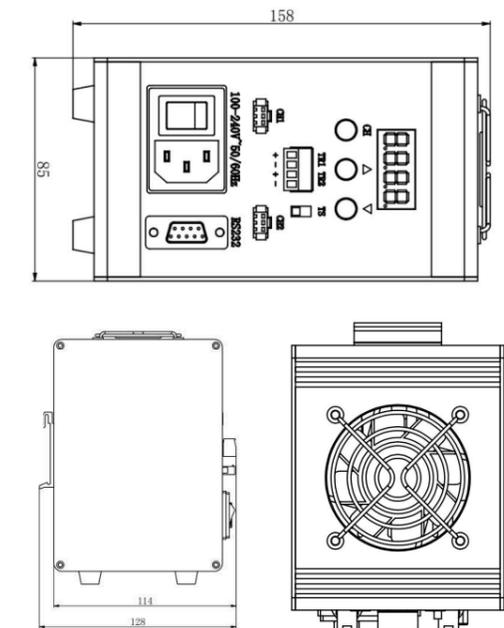
DCS2.0-2C030W-24PS

D:Digital controller
 C:Current driven type
 S:Standard model
 2.0:Second generation controller
 2C:Denotes 2 output channels
 030W:The maximum output power of a single channel is 30 Watts
 24:Output voltage is 24V
 PS:Passive triggering

Project	Arguments	Description
Control mode	Constant current	-
Input voltage	100-220V AC	-
Output voltage range	DC14.0V~24.0V	-
Channel	2 Channel	-
Manual adjustment	✓	Adjust by key
Remote adjustment	✓	Through the upper computer software adjustment
Luminance level memory	✓	The adjustment is completed, and the memory is automatically remembered after 8 seconds
RS232 communication baud rate	9600	-
Adjustable brightness level	Level 255	Long press the rough adjustment, short press fine adjustment; it can also be adjusted by the PC software
Max. power output /channel	30W	-
External trigger mode	Passive triggering	Effective trigger voltage range: 5-24V DC
External trigger delay time	H, ON →OFF <15us	H, stands for high level trigger; ON, OFF represent the light and off states of the LED light source
	H, OFF →ON <15us	
External trigger frequency	<1/T	Determined by the strobe time, such as T=1ms, the external trigger frequency is at most 1KHz
Work environment	Temperature: -10~50°C	-
	Humidity: 20~80%	-
Storage environment	Temperature: -20~70°C	-
	Humidity: 10~90%	-
Stand-by power consumption	< 3W	-
Boundary dimension(mm)	128 × 85 × 158mm	LxWxH
Weight	0.9Kg	

Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-DCS2.0-2C012W-24PS	2	12W	24V	✓
KM-DCS2.0-2C030W-24PS	2	30W	24V	✓
KM-DCS2.0-2C060W-24PS	2	60W	24V	✓



Four channel standard digital controller



- ✓ Exquisite appearance
- ✓ Easy installation
- ✓ Add guide buckle
- ✓ Easy operation
- ✓ Operation panel front
- ✓ Noiseless fan
- ✓ High power
- ✓ Strong heat dissipation
- ✓ Constant current stable output/no strobe

► Explanation

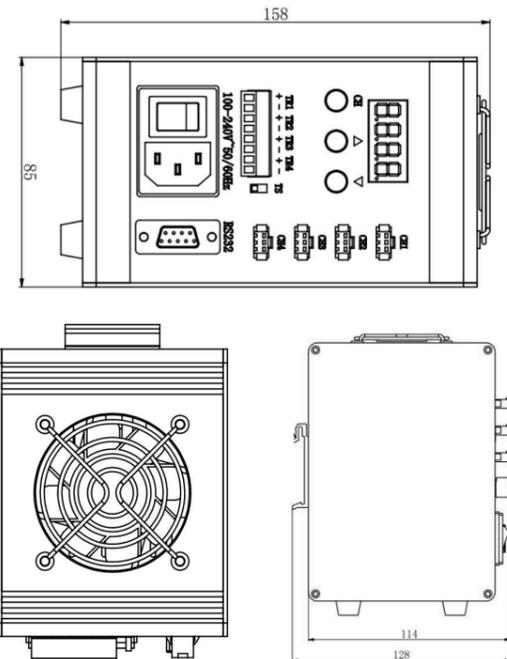
DCS2.0-4C030W-24PS

D:Digital controller
 C:Current driven type
 S:Standard model
 2.0:Second generation controller
 4C:Denotes 4 output channels
 030W:The maximum output power of a single channel is 30 Watts
 24:Output voltage is 24V
 PS:Passive triggering

► Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-DCS2.0-4C015W-24PS	4	15W	24V	✓
KM-DCS2.0-4C030W-24PS	4	30W	24V	✓

Project	Arguments	Description
Control mode	Constant current	-
Input voltage	100-220V AC	-
Output voltage range	DC14.0V-24.0V	-
Channel	4 Channel	-
Manual adjustment	✓	Adjust by key
Remote adjustment	✓	Through the upper computer software adjustment
Luminance level memory	✓	The adjustment is completed, and the memory is automatically remembered after 8 seconds
RS232 communication baud rate	9600	-
Adjustable brightness level	Level 255	Long press the rough adjustment, short press fine adjustment. It can also be adjusted by the PC software
Max. power output /channel	30W	-
External trigger mode	Passive triggering	Effective trigger voltage range: 5-24V DC
External trigger delay time	H, ON →OFF <15us	H, stands for high level trigger: ON, OFF represent the light and off states of the LED light source
	H, OFF →ON <15us	
External trigger frequency	<1/T	Determined by the strobe time, such as T=1ms, the external trigger frequency is at most 1KHz
Work environment	Temperature: -10~50°C	-
	Humidity: 20~80%	
Storage environment	Temperature: -20~70°C	-
	Humidity: 10~90%	
Stand-by power consumption	<3W	-
Boundary dimension(mm)	128 × 85 × 158mm	LxWxH
Weight	0.9Kg	-



Eight channel standard digital controller



- ✓ Exquisite appearance
- ✓ Easy installation
- ✓ Add guide buckle
- ✓ Large number of channels
- ✓ Operation panel front
- ✓ Noiseless fan
- ✓ High power
- ✓ Strong heat dissipation
- ✓ Constant current stable output/no strobe

► Explanation

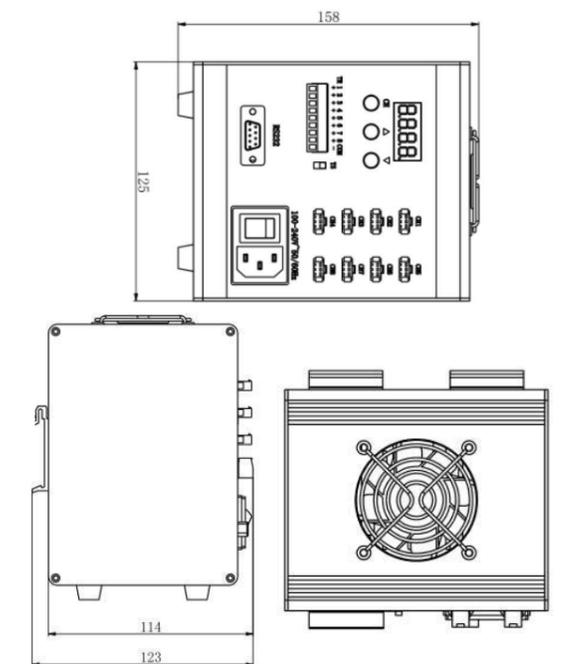
DCS2.0-8C015W-24PS

D:Digital controller
 C:Current driven type
 S:Standard model
 2.0:Second generation controller
 8C:Denotes 8 output channels
 015W:The maximum output power of a single channel is 15 Watts
 24:Output voltage is 24V
 PS:Passive triggering

► Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-DCS2.0-8C015W-24PS	8	15W	24V	✓

Project	Arguments	Description
Control mode	Constant current	-
Input voltage	100-220V AC	-
Output voltage range	DC14.0V-24.0V	-
Channel	8 Channel	-
Manual adjustment	✓	Adjust by key
Remote adjustment	✓	Through the upper computer software adjustment
Luminance level memory	✓	The adjustment is completed, and the memory is automatically remembered after 8 seconds
RS232 communication baud rate	9600	-
Adjustable brightness level	Level 255	Long press the rough adjustment, short press fine adjustment. It can also be adjusted by the PC software
Max. power output /channel	15W	-
External trigger mode	Passive triggering	Effective trigger voltage range: 5-24V DC
External trigger delay time	H, ON →OFF <15us	H, stands for high level trigger: ON, OFF represent the light and off states of the LED light source
	H, OFF →ON <15us	
External trigger frequency	<1/T	Determined by the strobe time, such as T=1ms, the external trigger frequency is at most 1KHz
Work environment	Temperature: -10~50°C	-
	Humidity: 20~80%	
Storage environment	Temperature: -20~70°C	-
	Humidity: 10~90%	
Stand-by power consumption	<3W	-
Boundary dimension(mm)	123X125X158mm	LxWxH
Weight	1.25Kg	-



Third generation four channel mini digital controller



- ☑ Small volume
- ☑ Exquisite appearance
- ☑ Automatic power adaptation
- ☑ Two trigger modes
- ☑ Stroboscopic pulse width is adjustable
- ☑ Short circuit and overcurrent protection
- ☑ Brightness levels 0-999 are adjustable

► Explanation

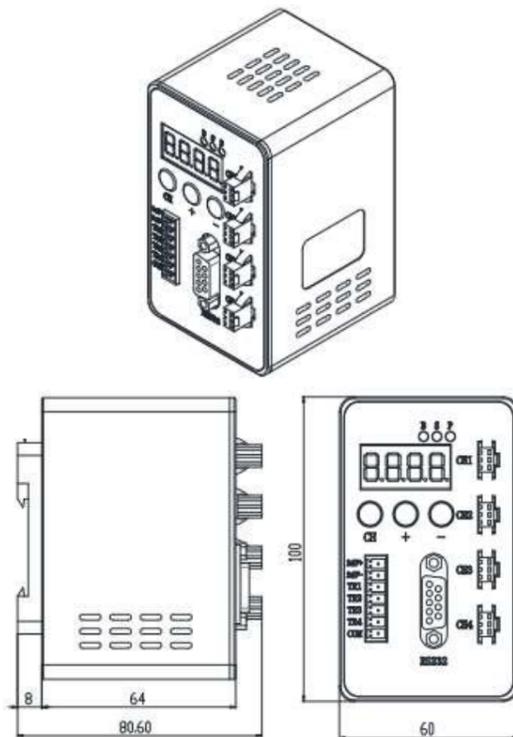
DPM3-4C072W(72W)-24PS

D:Digital controller
 P:PWM driven type
 M:mini model
 3:Third generation controller
 4C:Denotes 4 output channels
 (72W):Maximum output power of the controller
 24:Output voltage is 24V
 PS:Passive triggering

► Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-DPM3-4C072W(72W) -24PS	4	72W	24V	☑

Project	Arguments	Description
Control mode	PWM driven typet	Choosable
Input voltage	DC24V	-
Channel	4 Channel	-
Manual adjustment	☑	Adjust by key
Remote adjustment	☑	Through the upper computer software adjustment
Luminance level memory	☑	The adjustment is completed, and the memory is automatically remembered after 3 seconds
RS232 communication baud rate	9600	-
Adjustable brightness level	0-999 leve	Long press the rough adjustment, short press fine adjustment: It can also be adjusted by the PC software
Max. power output /channel	72W	-
Total output power of the controller	72W	-
External trigger mode	High level trigger	Effective trigger voltage range: 5-24V DC
External trigger delay time	H, ON→OFF<10us	H, stands for high level trigger; ON, OFF represent the light and off states of the LED light source
External trigger frequency	<1/T	Determined by the strobe time, such as T=1ms, the external trigger frequency is at most 1KHz
Short-circuit protectioncy	☑	When the circuit is short, the corresponding channel output is automatically closed
Overcurrent protection	☑	Beyond 72W, all channels are automatically closed and Err1 is displayed. Restart and restore after the exception condition is removed
Work environment	Temperature: -10~50°C Humidity: 20~80%	-
Storage environment	Temperature: -20~70°C Humidity: 10~90%	-
Stand-by power consumption	<3W	-
Boundary dimension(mm)	81*60*100mm	L×W×H



Two channel stroboscopic brightening digital controller



- ☑ Small volume
- ☑ Exquisite appearance
- ☑ High speed optocoupler, short response time
- ☑ Support internal and external trigger two modes
- ☑ Stroboscopic time can be set to 0-999us
- ☑ Combined with the conventional 24V light source, it can instantly improve the brightness of the light source more than 3 times
- ☑ Automatically output the trigger signal of the camera and synchronously trigger the camera to capture images

► Explanation

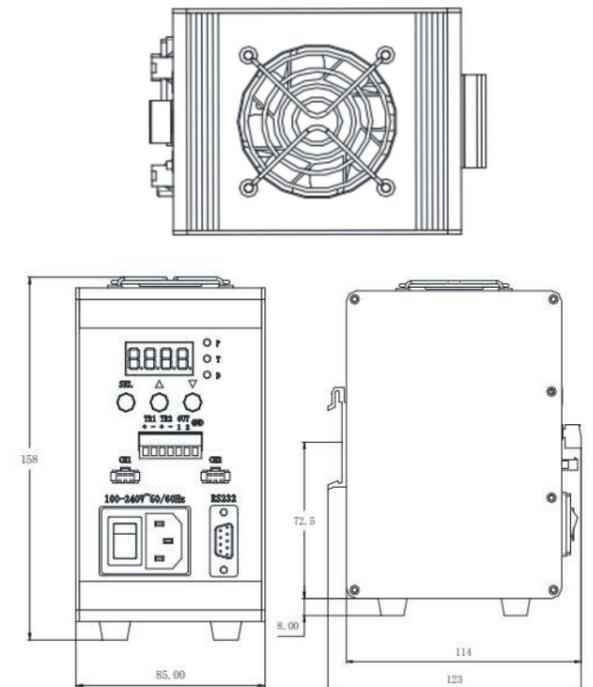
DPS H- 2C 040W (40W)-48PS

D:Digital controller
 P:PWM driven type
 S:Standard model
 H:Third generation controller
 2C:Denotes 2 output channels
 040W:The maximum output power of a single channel is 40 Watts
 48:Instantaneous output voltage is 48V
 PS:Passive triggering

► Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-DPS H- 2C 040W (40W)-48PS	2	40W	48V	☑

Project	Arguments	Description
Control mode	PWM	Pulse driven type
Input voltage	AC 110-220V	-
Output voltage	DC 48V	Moment
Channel	4 Channel	-
Manual adjustment	☑	Adjust by key
Remote adjustment	☑	Through the upper computer software adjustment
Luminance level memory	☑	The adjustment is completed, and the memory is automatically remembered after 3 seconds
RS232 communication baud rate	9600	-
Adjustable brightness level	0-999 leve	Long press the rough adjustment, short press fine adjustment: It can also be adjusted by the PC software
Max. power output /channel	40W	The power of the single-pass connected light source is ≤40W
External trigger mode	High level trigger	Effective trigger voltage range: 5-24V DC
External trigger delay time	H, ON →OFF<10us	H, stands for high level trigger; ON, OFF represent the light and off states of the LED light source
External trigger frequency	<1/5T	Determined by the external trigger signal, but affected by the stroboscopic pulse width
Work environment	Temperature: -10~50°C Humidity: 20~80%	-
Storage environment	Temperature: -20~70°C Humidity: 10~90%	-
Stand-by power consumption	<1W	-
Boundary dimension(mm)	123 × 85 × 158mm	L×W×H



Third generation four channel standard digital controller



- ☑ Small volume
- ☑ Exquisite appearance
- ☑ Multiple trigger modes
- ☑ Abnormal light source protection
- ☑ Automatic adaptation of light source power
- ☑ The channel power can be set
- ☑ Strobe time 1-999, can be set

Explanation

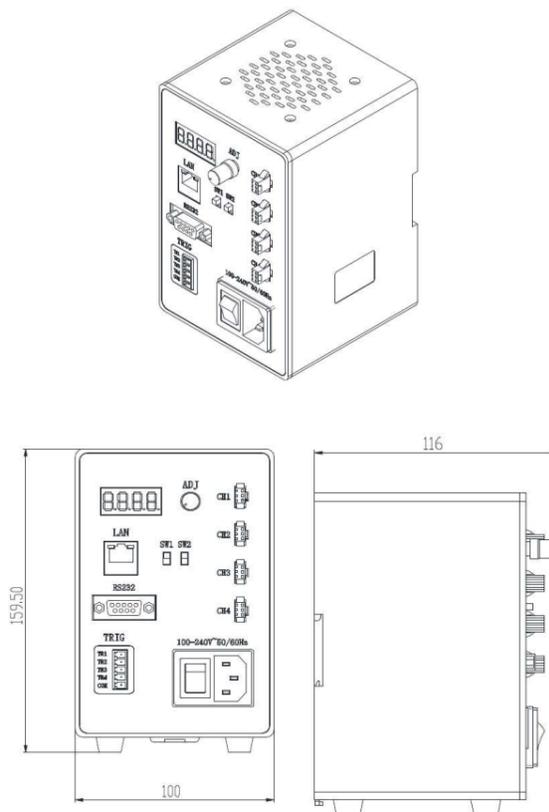
DCS3-4C060W(60W)-24PS

D:Digital controller
 C:Current driven type
 S:Standard model
 3:Third generation controller
 4C:Denotes 4 output channels
 (60W):Maximum output power of the controller
 24:Output voltage is 24V
 PS:Passive triggering

Project	Arguments	Description
Control mode	Constant currentdriven typet	-
Input voltage	AC100-240V	-
Channel	4 Channel	-
Manual adjustment	✓	Adjust by key
Remote adjustment	✓	Communication through RS232 serial port
Luminance level memory	✓	After adjustment, automatic memory in 3 seconds
RS232 communication baud rate	9600	-
Adjustable brightness level	0-255 level	Adjust manually by encoder or by PC software
Max. power output /channel	2.5A	-
Total output power of the controller	60W	-
External trigger mode	Passive triggering	Effective trigger voltage range: 5-24V DC
Four trigger modes	High level trigger	When the rising edge or falling edge is triggered, the luminescence duration can be set in the upper computer software, ranging from 1-999ms
	Low level trigger	
	Upper open edge trigger	
	Falling edge trigger	
External trigger delay time	H, ON→OFF<80us	H, stands for high level trigger: ON, OFF represent the light and off states of the LED light source
External trigger frequency	<1/T	Determined by the strobe time, such as T=1ms, the external trigger frequency is at most 1KHz
Short-circuit protection	✓	When the circuit is short, the corresponding channel output is automatically closed
Overcurrent protection	✓	Beyond 2.8A, all channels are automatically closed and X.Err (X is the channel value) is displayed. Restart and restore after the exception condition is removed
Automatic detection of light source power	✓	Select this function manually or by command
Output power of each channel can be adjusted	✓	Adjust the output power of each channel by power level, ranging from 1 to 25
Work environment	Temperature: -10~50°C Humidity: 20~80%	-
Storage environment	Temperature: -20~70°C Humidity: 10~90%	-
Stand-by power consumption	<5W	-
Boundary dimension(mm)	115.8*100*163mm	L×W×H

Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-DCS3-4C060W(60W)-24PS	4	60W	24V	✓
KM-DCS3-4C080W(120W)-24PS	4	80W	24V	✓



Four channel standard digital controller(high power)



- Current control LED brightness is more stable, and the camera takes pictures without stroboscopic phenomenon.
- High and low levels trigger switching.
- Brightness 255 level adjustable.
- RS232 serial port control.

Explanation

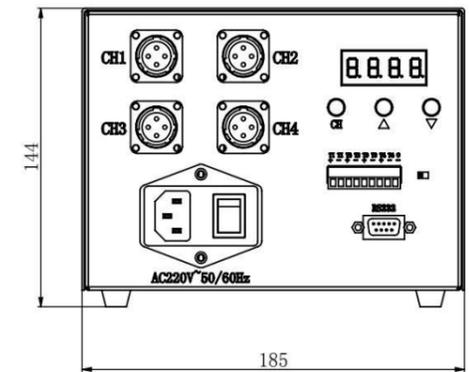
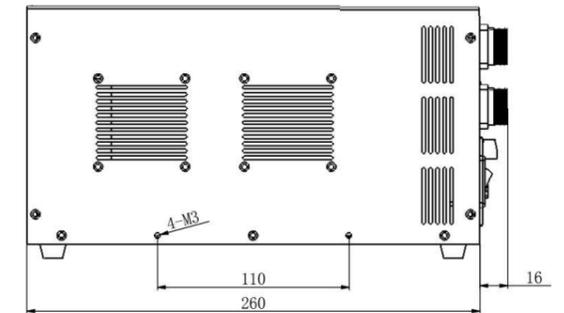
KM-DCS-4C050W-24PS

KM:KM series
 D:Digital controller
 C:Current driven type
 S:Standard model
 4C:Denotes 4 output channels
 150W:Maximum output power of the controller
 24:Output voltage is 24V
 PS:Passive triggering

Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-DCS-4C050W-24PS	4	50W	24V	✓
KM-DCS-4C080W-24PS	4	80W	24V	✓

Project	Arguments	Description
Control mode	Constant currentdriven typet	-
Input voltage	100-220V AC	-
Output voltage range	DC14.0V-24.0V	-
Channel	4 Channel	-
Manual adjustment	✓	Adjust by key
Remote adjustment	✓	Through the upper software adjustment
Luminance level memory	✓	After adjustment, automatic memory in 8 seconds
RS232 communication baud rate	9600	-
Adjustable brightness level	255 level	Long press the rough adjustment, short press fine adjustment: It can also be adjusted by the PC software
Max. power output /channel	80W	-
External trigger mode	Passive trigger, high and low level trigger can be switched	Effective trigger voltage range: 6-24V DC
External trigger delay time	H, ON→OFF<60us	H, stands for high level trigger: L, stands for low level trigger: ON, OFF represent the light and off states of the LED light source
	H, OFF→ON <60us	
	L, ON→OFF<80us	
	L, OFF→ON <80us	
External trigger frequency	<1/T	Determined by the strobe time, such as T=1ms, the external trigger frequency is at most 1KHz
Work environment	Temperature: -10~50°C Humidity: 20~80%RH non-solidification	-
Storage environment	Temperature: -20~70°C Humidity: 10~55%RH non-solidification	-
Stand-by power consumption	<1W	-
Boundary dimension(mm)	276x185x144mm	L×W×H
Weight	2.6Kg	-



Two channel standard digital controller(high power)



- Current control LED brightness is more stable, and the camera takes pictures without stroboscopic phenomenon.
- High and low levels trigger switching.
- Brightness 255 level adjustable.
- RS232 serial port control.

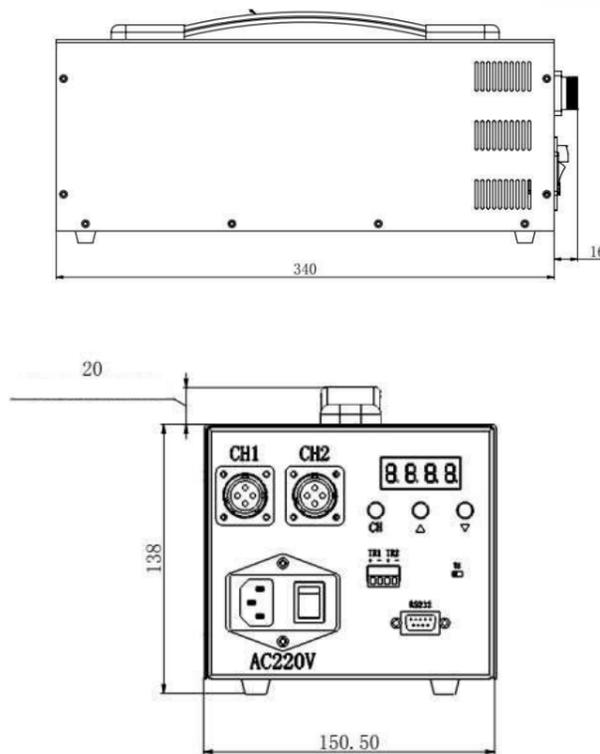
Explanation

KM-DCS-2C300W-24PS
 KM:KM series
 D:Digital controller
 C:Current driven type
 S:Standard model
 2C:Denotes 2 output channels
 300W:Maximum output power of the controller
 24:Output voltage is 24V
 PS:Passive triggering

Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-DCS-2C300W-24PS	2	300W	24V	✓
KM-DCS-1C500W-24PS	1	500W	24V	✓

Project	Arguments	Description
Control mode	Constant currentdriven typet	-
Input voltage	100-220V AC	-
Output voltage range	DC14.0V-24.0V	-
Channel	4 Channel	-
Manual adjustment	✓	Adjust by key
Remote adjustment	✓	Through the upper software adjustment
Luminance level memory	✓	After adjustment, automatic memory in 8 seconds
RS232 communication baud rate	9600	-
Adjustable brightness level	255 level	Long press the rough adjustment, short press fine adjustment: it can also be adjusted by the PC software
Max. power output /channel	500W	-
External trigger mode	Passive trigger, high and low level trigger can be switched	Effective trigger voltage range: 5-24V DC
External trigger delay time	H, ON →OFF <60us	H, stands for high level trigger; L, stands for low level trigger; ON, OFF represent the light and off states of the LED light source
	H, OFF→ON <60us	
	L, ON →OFF <80us	
	L, OFF→ON <80us	
External trigger frequency	< 1/T	Determined by the strobe time, such as T=1ms, the external trigger frequency is at most 1KHz
Work environment	Temperature: -10-50°C Humidity :20-80%RH non-solidification	-
Storage environment	Temperature: -20-70°C Humidity :10-55%RH non-solidification	-
Stand-by power consumption	< 1W	-
Boundary dimension(mm)	356x150x144.5mm	L x W x H
Weight	5.2Kg	-



Two channel standard digital controller(high power)



- Current control LED brightness is more stable, and the camera takes pictures without stroboscopic phenomenon.
- High and low levels trigger switching.
- Brightness 255 level adjustable.
- RS232 serial port control.

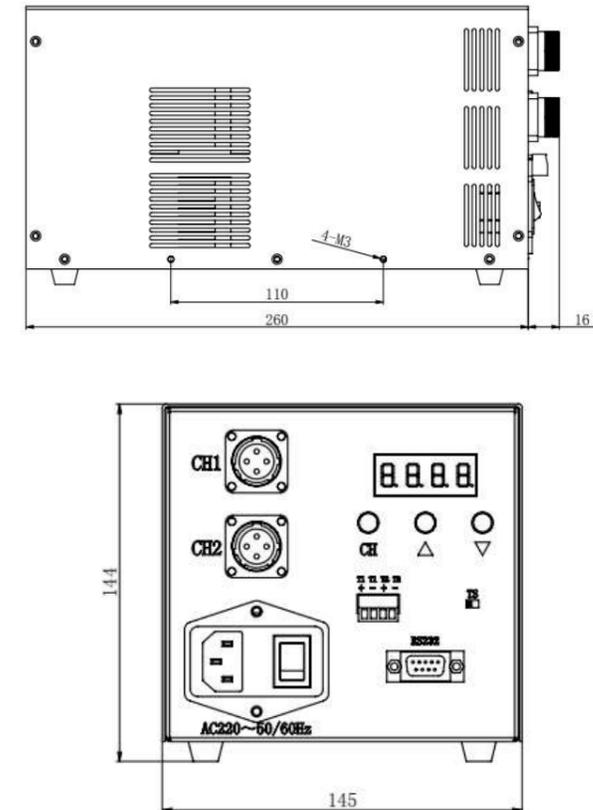
Explanation

KM:KM series
 D:Digital controller
 C:Current driven type
 S:Standard model
 2C:Denotes 2 output channels
 150W:Maximum output power of the controller
 24:Output voltage is 24V
 PS:Passive triggering

Model

Model	Channel	Power/CH	Output voltage	External trigger
KM-DCS-2C100W-24PS	2	100W	24V	✓
KM-DCS-2C150W-24PS	2	150W	24V	✓
KM-DCS-1C300W-24PS	1	300W	24V	✓

Project	Arguments	Description
Control mode	Constant currentdriven typet	-
Input voltage	100-220V AC	-
Output voltage range	DC14.0V-24.0V	-
Channel	4 Channel	-
Manual adjustment	✓	Adjust by key
Remote adjustment	✓	Through the upper software adjustment
Luminance level memory	✓	After adjustment, automatic memory in 8 seconds
RS232 communication baud rate	9600	-
Adjustable brightness level	255 level	Long press the rough adjustment, short press fine adjustment: it can also be adjusted by the PC software
Max. power output /channel	500W	-
External trigger mode	Passive trigger, high and low level trigger can be switched	Effective trigger voltage range: 5-24V DC
External trigger delay time	H, ON →OFF <60us	H, stands for high level trigger; L, stands for low level trigger; ON, OFF represent the light and off states of the LED light source
	H, OFF→ON <60us	
	L, ON →OFF <80us	
	L, OFF→ON <80us	
External trigger frequency	< 1/T	Determined by the strobe time, such as T=1ms, the external trigger frequency is at most 1KHz
Work environment	Temperature: -10-50°C Humidity :20-80%RH non-solidification	-
Storage environment	Temperature: -20-70°C Humidity :10-55%RH non-solidification	-
Stand-by power consumption	< 1W	-
Boundary dimension(mm)	276x185x144mm	L x W x H
Weight	2.0Kg	-



Common controller

Single channel analog controller

Aluminum alloy shell with good heat dissipation function



Model	KM-DY30-1-24V(16-24V)	Input voltage AC	100-240c
Maximum current	1.2A	Output voltage DC	16-24V

Mini digital controller



Model	Channel	Power/CH	Output voltage	External trigger
KM-DCM-1C100W-24S	1	100W	24V	✓
KM-DCM-1C150W-24S	1	150W	24V	✓
KM-DCM-2C050W-24S	2	50W	24V	✓

Accessories series

Polarizer

Polarizer is also called polarizer, abbreviation PL mirror, is a kind of color filter. Polarizer can selectively let a certain direction of vibration of light through, eliminate or weaken the non-metallic surface of the strong reflection, thereby eliminating or reducing the light spot, usually installed in front of the lens.



Specification: M25.5, M27, M28, M30, M30.5, M35.5, M37 ect.

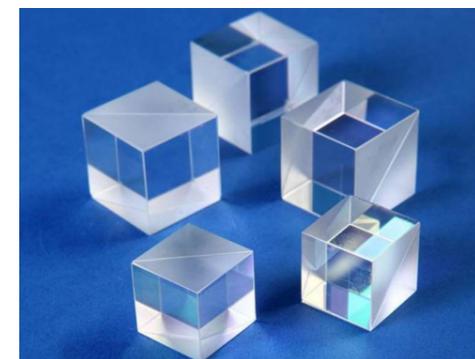
Polaroid

The polarizer is usually mounted on the surface of the light source and converts the light emitted by the light source into linearly polarized light with a polarization degree of more than 99%. Sizes and shapes can be customized. The polarizer is used in conjunction with the polarizer to eliminate the reflection of the non-metallic surface.

Light filter

Designation	Effective wavelengthn	Luminousness
Blue band pass filter	465-470	90%
Green band pass filter	525-530	90%
Yellow band pass filter	585-590	90%
Red band pass filter	625-630	90%
Ultraviolet band pass filter	365	90%
Infrared band pass filter	850	90%

Prism



Triangular prism and cube conventional size: 20mm,30mm,40, side length. Support for customization

Selection considerations

Attention to machine vision light source selection

Choosing a good lighting system is the key to the stable work of the whole image processing system. However, there is no general lighting system to adapt to various occasions. According to the characteristics of LED light source, such as multi-shape and multi-color, we summarize some methods of selecting light source:

1、 Understand the system structure and operation requirements, and determine the spatial structure relationship of camera, light source and measured object. The determined parameters are: field of view , working distance

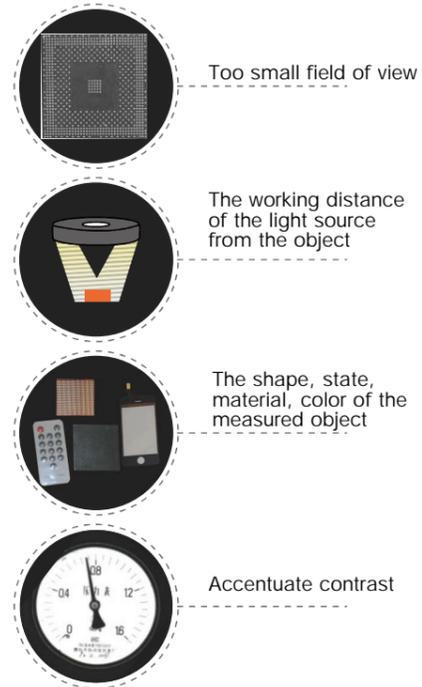
2、 Spatial structures are: direct, lateral, back irradiation

Direct illumination structure light source -- partial ring light source, coaxial light source, dome light source.
Side illumination structure light source -- partial ring light source, strip light source, line light source, point light source.

Back illumination structure light source - square backlight, strip backlight, back light.

3、 For the observation and analysis of the measured object, dome light source should be used for curved surface detection, coaxial light source should be used for smooth plane, and bright field light source should be used for rough plane. Infrared light source for objects with good light transmittance. Figure out what color is in the background (which is not detected) and what color is in the foreground (which is detected).

A good light source can improve the contrast of the image - the background and foreground are clear, and the foreground color light source or white light source should be used for changing scenery.



Attention to the use of machine vision light source

1、 Using leds at high temperatures will shorten their life

- * Red leds, whose brightness decreases 1% for every degree Celsius increase in temperature.
- * Long-term use at high temperatures will gradually age and reduce brightness.

2、 Use the light source correctly to prevent aging and brightness decline caused by its own heat

- Use light sources at the lowest possible brightness level

- * Under the appropriate brightness, the level of the light source is reduced to reduce the current, less heat is emitted, and the brightness loss is small.
- * Long-term use results in reduced brightness, which can gradually increase the brightness level.

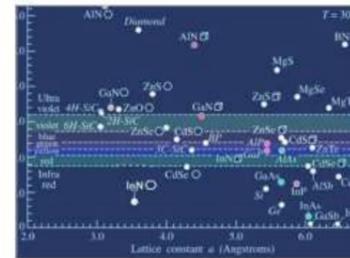
- Install a fan or provide air flow to reduce the temperature to slow the attenuation of brightness

Install fan -----To provide air flow ----- Install heat dissipation strong bracket

- Turn on the light source or use the matching strobe controller during imaging

Switching the LED light source repeatedly has no effect on the service life. When the LED is turned on as a strobe source or only for external signal requirements, the brightness of the light source is stable and the life of the LED is significantly prolonged.

Industry application



Semiconductor



Packaging



Dispensing spray picture



Automobile making



Automation



Machine hand



Food



Medicine



Printing



Electronic products



Metal processing



Scientific research