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JM VISTEC SYSTEM PTE LTD

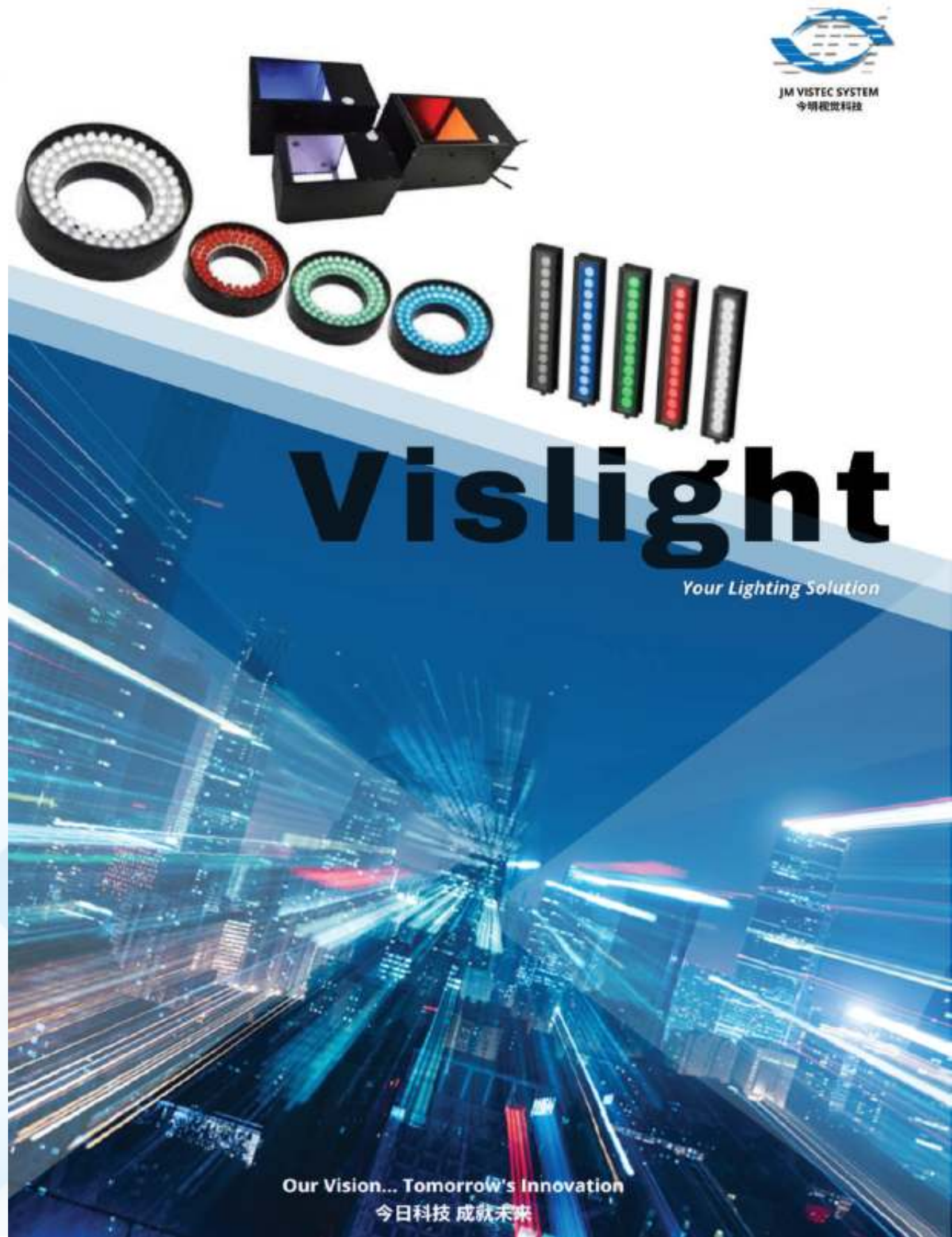
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Our Vision... Tomorrow's Innovation
今日科技 成就未来



Vislight

Your Lighting Solution



Our Vision... Tomorrow's Innovation
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About us

JM Vistec System was established in 2004 as a machine vision component distributor in Singapore. As a distributor, we carry over 20 renowned brands in Machine Vision industry globally. Our products include industrial camera, industrial lens, illumination & controls, imaging processing software, sensors, lighting, frame grabber, lighting and lens controller, artificial intelligence, and accessories.

As a machine vision specialist, our mission is to help our customer resolve challenging product inspection requirements solution. We have ventured into the APAC region which includes Singapore (HQ), China, Taipei, Thailand, and Malaysia.

As competition grew, our differentiation strategy is geared towards providing value-added services such as consultation, customization, software integration, vision solution and vision system to our clients. In addition, we strive to ensure that our clients' needs, and requests are always out top priority and taken care of professionally and efficiently to the best of our ability. Besides, our aim is to establish partnerships with core suppliers to achieve high standards and deliver value-added services to our clients.

Every client's needs and requests are our daily mission, which pushes us to excel and reach out to the limit of science and technologies. We believe that innovation is the key to achieve sustainable growth. Only in creating value for our customers, we will find gratification in our work, and this is our greatest reward.

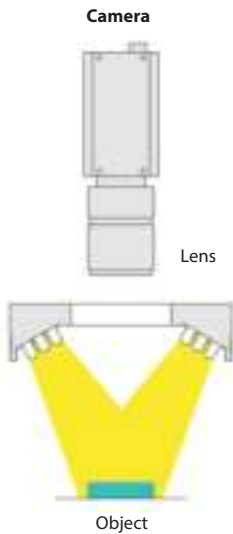


RING LIGHTSOURCE

CRL SERIES



- Customized service
- High intensity
- Optional diffuser to increase the uniformity of light source



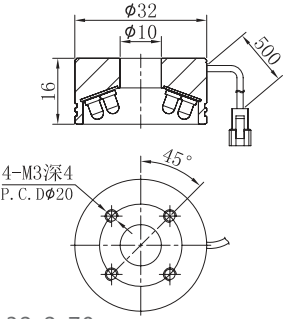
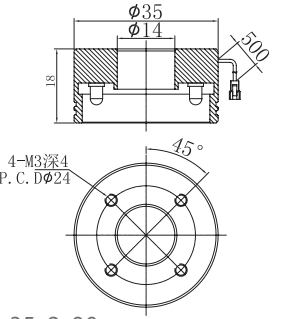
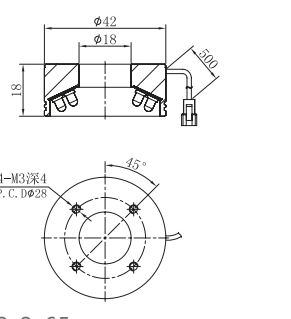
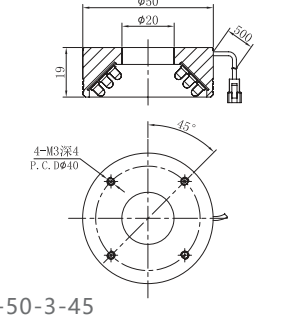
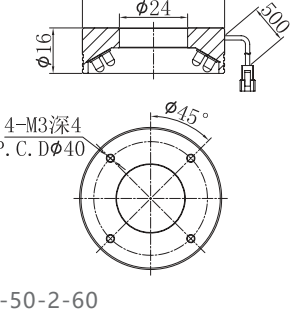
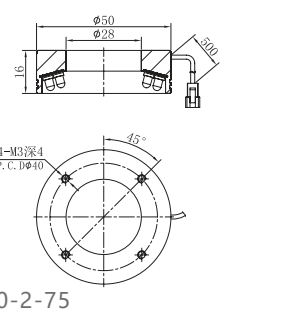
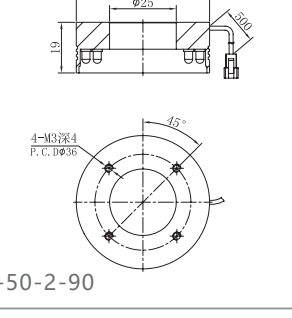
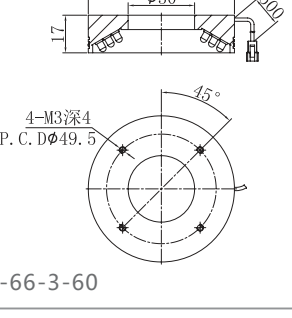
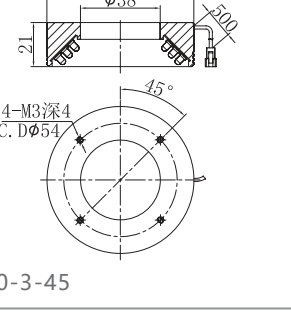
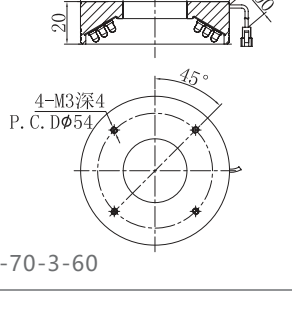
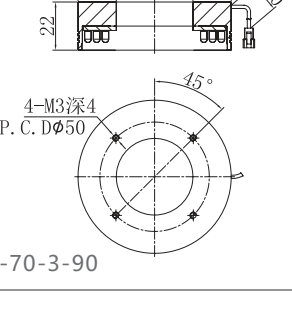
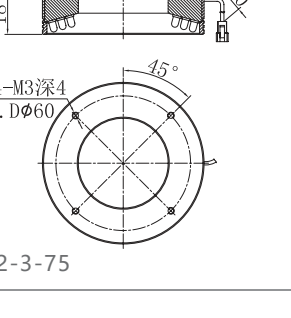
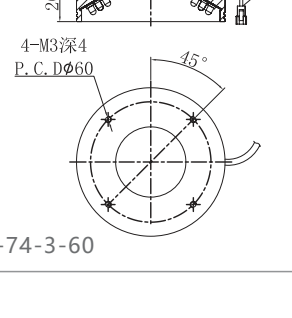
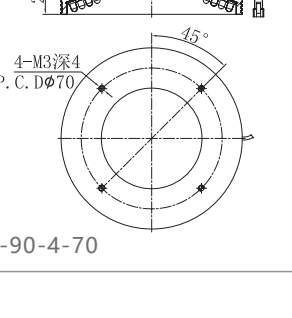
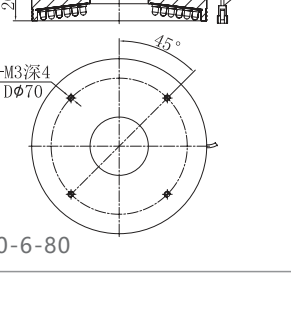
CRL	—	32	—	2	—	70	—	R/G/B/W/IR/UV	—	12/24(V)
Series		External Diameter		LED Row		Angle		Color		Voltage

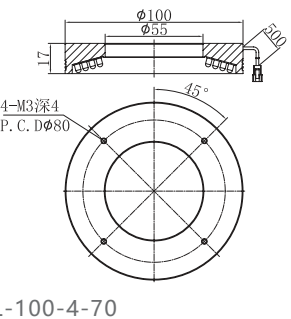
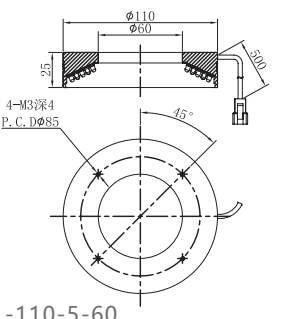
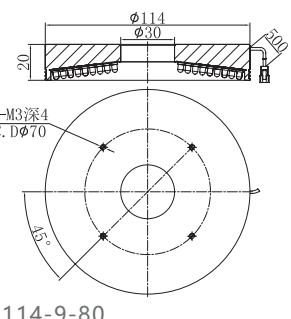
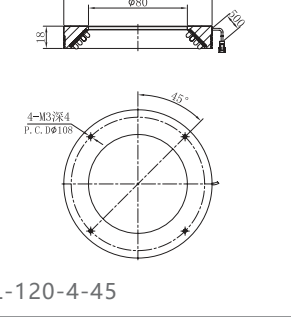
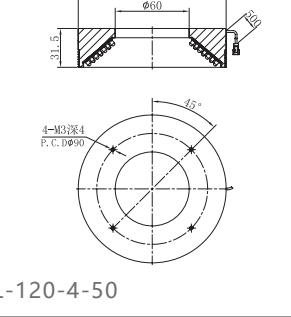
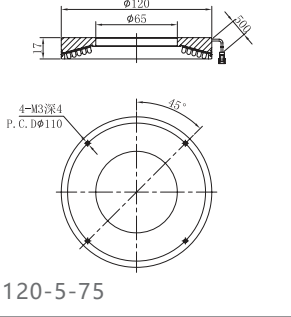
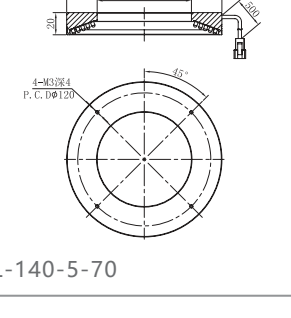
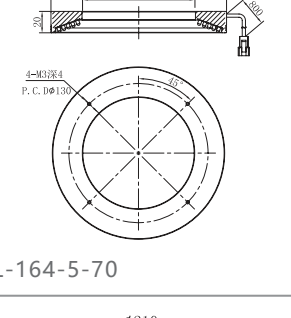
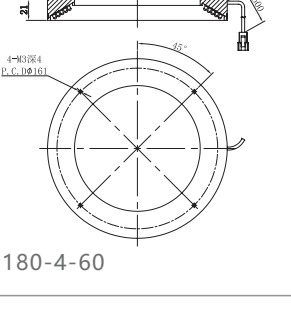
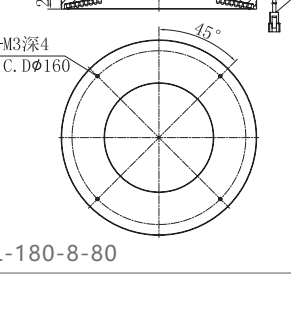
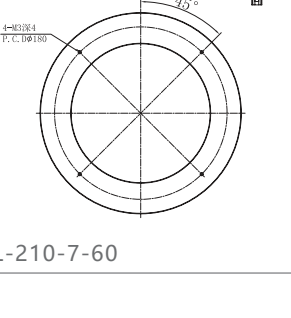
Wavelength	R 620–625nm	G 520–525nm	B 470–475nm	W 5800–7000K	IR 850–940nm	UV 365–405nm
Controller	LC-D GARDASOFT LCC-D					
Optional Accessories	1. Diffuser 2. Extension cables : 1m, 3m, 5m					
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%					

Datasheet

Model	Optics				Electric			Size External x Internal x Height (mm)	Weight (g)
	Color	LED row	Angle	Working Distance (mm)	Voltage (V)	(W) 2 *			
CRL-32-2-70		2	70	15-25	24	1	1.9	32x10x16	25
CRL-35-2-90		2	90	15	24	1.3	2.3	35x14x18	33
CRL-42-2-65		2	65	19-29	24	1.6	2.5	42x18x18	40
CRL-50-3-45		3	45	4-16	24	2.6	3	50x20x19	58
CRL-50-2-60		2	60	22-31	24	1.5	2.7	50x24x16	46
CRL-50-2-75		2	75	56-72	24	1.8	2.4	50x28x16	43
CRL-50-2-90		2	90	26	24	2	3.5	50x25x19	52
CRL-66-3-60		3	60	27-43	24	3.8	4	66x30x17	79
CRL-70-3-45		3	45	12-35	24	6.8	9	70x38x21	105
CRL-70-3-60		3	60	28-46	24	3	4.5	70x30x20	110
CRL-70-3-90		3	90	36	24	3.5	4.8	70x35x22	115
CRL-72-3-75		3	75	38	24	3	5	70x35x22	115
CRL-74-3-60		3	60	28-45	24	2.5	5	74x35x20	107
CRL-90-4-45		4	45	50-90	24	6.5	4.5	90x50x20	160
CRL-90-4-70		4	70	68-103	24	3.5	8.5	90x50x20	160
CRL-90-6-80		6	80	80-120	24	8	11.5	90x30x20	170
CRL-100-4-70		4	70	100-150	24	4	9	100x55x17	180
CRL-100-5-90		5	90	100-150	24	8	14	100x40x20	190
CRL-110-5-60		5	60	28-45	24	5	13	110x60x25	190
CRL-114-9-80		9	80	80-130	24	17.5	24.0	114x30x20	250
CRL-120-4-45		4	45	50-110	24	10.5	11.5	120x80x18	250
CRL-120-4-50		4	50	30-48	24	8.3	13.9	120x80x21	210
CRL-120-5-75		5	75	134-100	24	8.2	14	120x65x17	250
CRL-120-6-90		6	90	120-200	24	8.5	13	120x50x18	270
CRL-140-5-70		5	70	70-100	24	14.3	16.5	140x85x18	250
CRL-150-9-90		9	90	150-240	24	10	16	150x25x22.5	420
CRL-164-5-70		5	70	130-160	24	17.2	19.5	164x105x20	450
CRL-180-4-60		4	60	106-140	24	8.2	16	180x126x21	500
CRL-180-8-80		8	80	360-380	24	18.8	25	180x100x20	650
CRL-210-7-60		7	60	116-166	24	15	24	210x145x25	700

Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

 CRL-32-2-70	 CRL-35-2-90	 CRL-42-2-65
 CRL-50-3-45	 CRL-50-2-60	 CRL-50-2-75
 CRL-50-2-90	 CRL-66-3-60	 CRL-70-3-45
 CRL-70-3-60	 CRL-70-3-90	 CRL-72-3-75
 CRL-74-3-60	 CRL-90-4-70	 CRL-90-6-80

 CRL-100-4-70	 CRL-110-5-60	 CRL-114-9-80
 CRL-120-4-45	 CRL-120-4-50	 CRL-120-5-75
 CRL-140-5-70	 CRL-164-5-70	 CRL-180-4-60
 CRL-180-8-80	 CRL-210-7-60	

RING LIGHT SOURCE

LRL Series



Low-angle lighting
customized service

Application :
External defects detection
Bottle defects detecion

LRL	—	48	—	2	—	30	—	R/G/B/W	—	12/24(V)
Series		External Diameter		LED Row		Angle		Color		Voltage

Datasheet

Model	Optics				Electric			Size	Weight (g)
	Color	LED row	Angle	Working Distance (mm)	Voltage (V)	(W)*2		External x Internal x Height (mm)	
LRL-48-2-30		2	30	5-8	24	1.5	2.5	48x22x18.5	50
LRL-50-1-00		1	00	0-10	24	1	1.8	50x18x10	50
LRL-50-2-30		2	30	5	24	1.5	2.5	50x24x16	50
LRL-66-3-30		3	30	0-10	24	2.2	4	66x30x22	125
LRL-74-2-30		2	30	9-14	24	3	4.5	74x48x19	95
LRL-75-1-00		1	00	0-10	24	1.5	2.1	75x43x10	67
LRL-90-2-15		2	15	3-10	24	3.2	5	90x60x20.6	90
LRL-96-1-00		1	00	0-10	24	2.1	3.5	96x64x10	105
LRL-100-3-30		3	30	12-21	24	6.3	7.5	100x70x22	170
LRL-120-1-00		1	00	0-10	24	2.5	3.8	120x88x10	110
LRL-120-3-30		3	30	17-27	24	7	9	120x88x22	205
LRL-132-3-15		3	15	3-12	24	9.2	11	132x96x22	275
LRL-146-1-00		1	00	0-10	24	3.3	4.5	146x114x10	130
LRL-150-4-30		4	30	15-29	24	13	15	150x120x22	255
LRL-176-1-00		1	00	0-10	24	4.3	6	176x144x10	155
LRL-180-5-30		5	30	24-34	24	7	13	180x132x29	518
LRL-206-1-00		1	00	0-10	24	5.5	8.2	206x174x10	175

Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

Drawing

LRL-48-2-30	LRL-50-2-30	LRL-66-3-30
LRL-74-2-30	LRL-75-1-00	LRL-90-2-15
LRL-96-1-00	LRL-100-3-30	LRL-120-3-30
LRL-132-3-15	LRL-146-1-00	LRL-176-1-00
LRL-180-5-30	LRL-206-1-00	

STRIP LIGHT SOURCE

GBL Series



Application

- Surface defects detection
- images scanning
- LCD defects detection

GBL	—	40x16	—	3	—	R/G/B/W/IR/UV	—	12/24(V)
Series		Light-emitting dimension (L x W)		LED row		Color		Voltage

Wavelength	R : 620–625nm	G : 520–525nm	B : 470–475nm	W : 5800–7000K	IR : 850–940nm	UV : 365–405nm
Controller	LC-D GARDASOFT LCC-D					
Optional Accessories	1 : Diffuser 2 : Extension Cable : 1m, 3m, 5m					
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%					

Drawing

Model	Optics			Electric			Size	Weight (g)
	Color	LED row	Light-emitting L x W (mm)	Voltage (V)	(W)* 2		L x W x H (mm)	
GBL-40x16-3		3	40x16	24	1	1.5	52x20x24	50
GBL-80x16-3		3	80x16	24	1.5	2.5	92x20x24	80
GBL-120x16-3		3	120x16	24	3.5	7	132x20x24	100
GBL-160x16-3		3	160x16	24	5	8	172x20x24	120
GBL-197x16-3		3	197x16	24	5.5	8.5	209x20x24	150
GBL-275x16-3		3	275x16	24	12	15	287x20x24	210
GBL-74x30-6		6	74x30	24	3.2	4	86x34x24	100
GBL-86x30-6		6	86x30	24	4.7	5.5	98x34x24	110
GBL-98x30-6		6	98x30	24	5	6.5	110x34x23	120
GBL-146x30-6		6	146x30	24	6.5	9	158x34x23	160
GBL-170x30-6		6	170x30	24	7.5	9.5	182x34x23	180
GBL-180x30-6		6	180x30	24	8	10.5	192x34x24	190
GBL-194x30-6		6	194x30	24	9.5	11.5	206x34x24	200
GBL-218x30-6		6	218x30	24	10.7	12	230x34x24	220
GBL-266x30-6		6	266x30	24	13	14.6	278x34x24	260
GBL-290x30-6		6	290x30	24	14.2	16	302x34x24	280
GBL-386x30-6		6	386x30	24	18	22	398x34x24	370
GBL-434x30-6		6	434x30	24	21.5	24	446x34x24	410
GBL-578x30-6		6	578x30	24	28.8	32	590x34x24	530

Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

Application Example :



Evenly supply the lighting in the curved surface on both sides



Side lighting can show the characters on the liquid screen clearly

STRIP LIGHT SOURCE

SBL SERIES



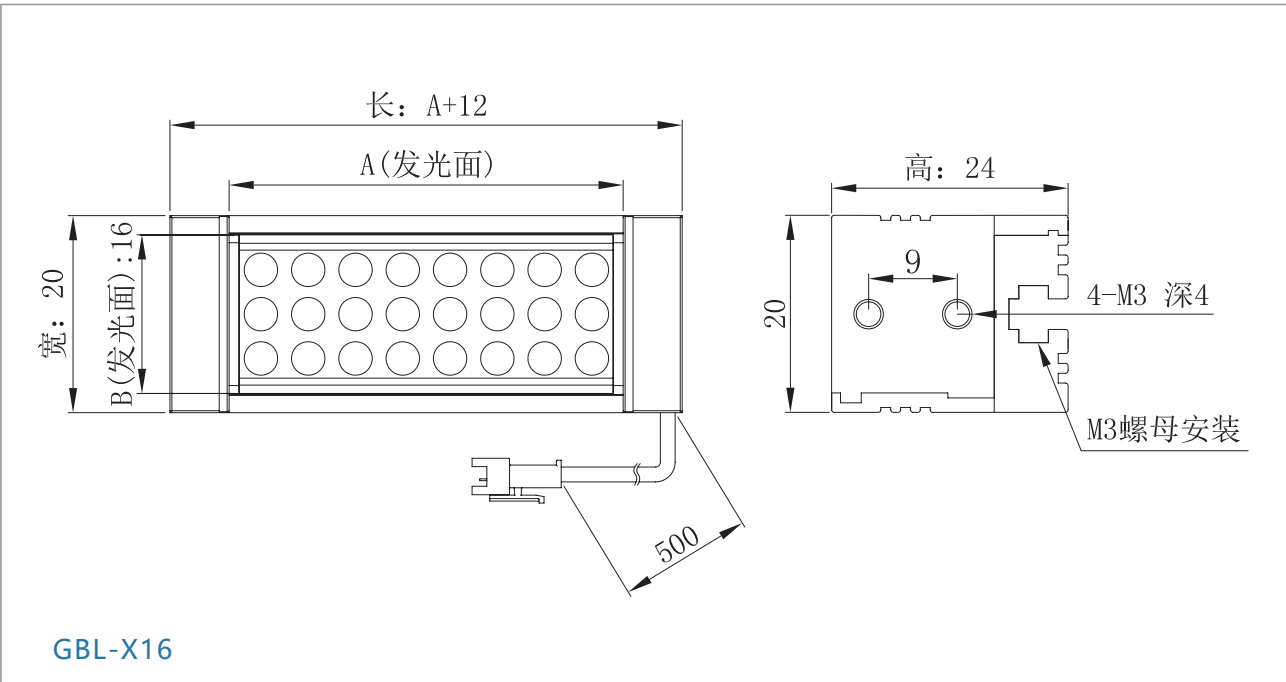
The angle of the light source can be adjusted freely
Good versatility

- Application :
- Various large-format inspections
 - Location recognition

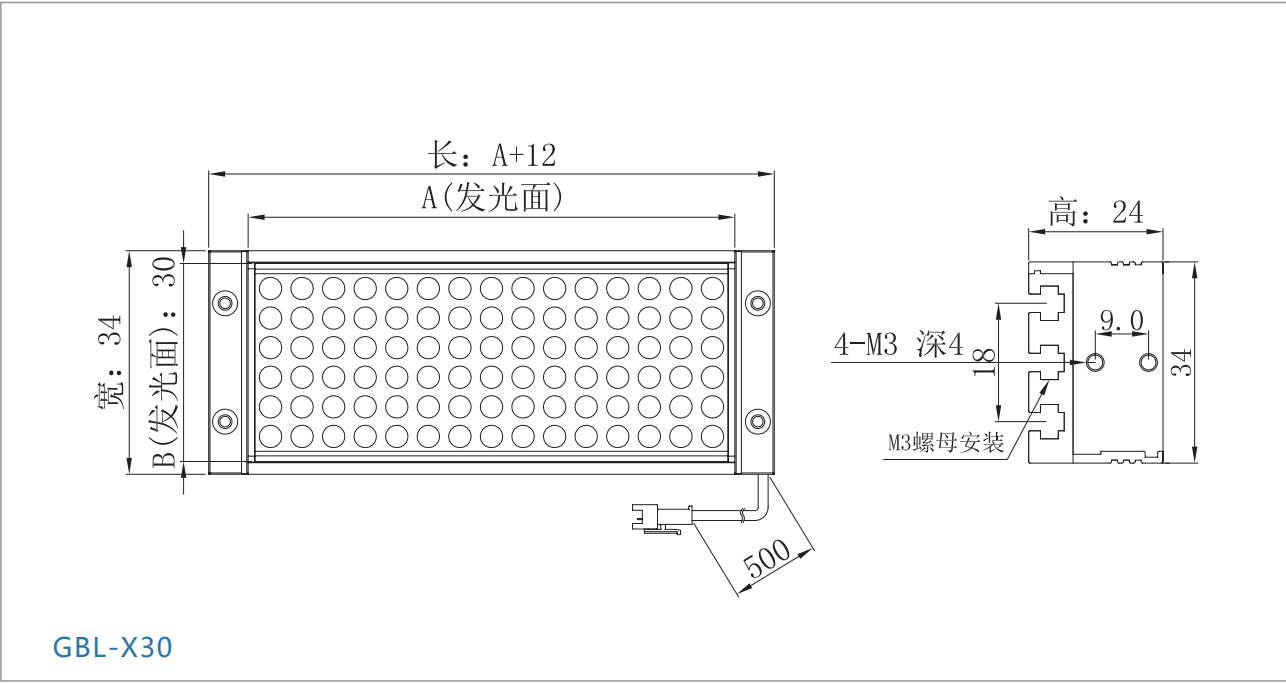
SBL	—	120x120	—	3	—	R/G/B/W/IR/UV	—	12/24(V)
Series		Light-emitting L x W		LED row		Color		Voltage

Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm	UV : 365-405nm
Controller	LC-D GARDASOFT LCC-D					
Optional Accessories	1 : Diffuser 2 : Extension cables : 1m, 3m, 5m					
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%					

External Dimension



GBL-X16



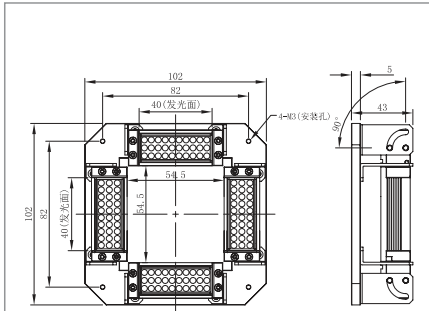
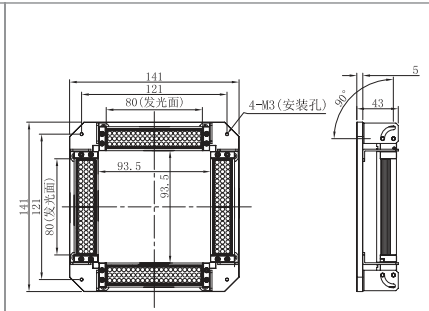
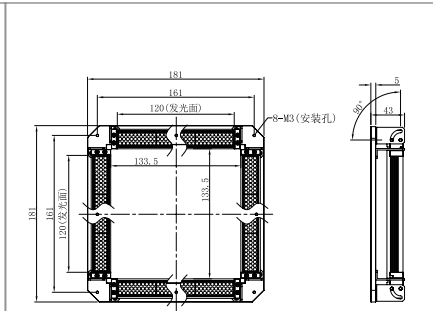
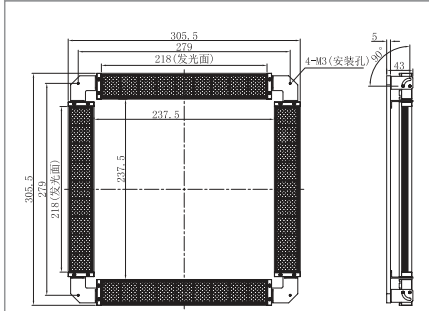
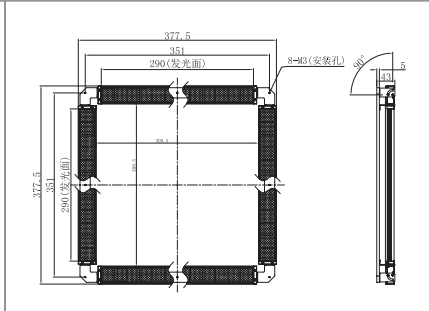
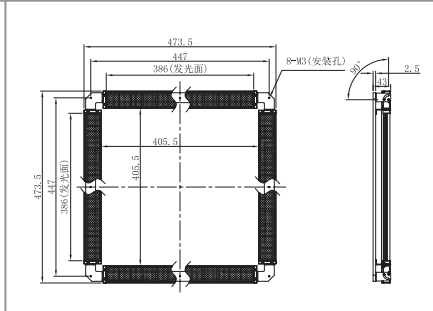
GBL-X30

■ Datasheet

Series	Model	Optics			Electric			Size	Weight (g)
		Color	LED row	Inner Hole (mm)	Voltage (V)	W*2		L x W x H (mm)	
SBL	SBL-40x40-3		3	54.4x54.4	24	4x1	4x1.5	102x102x43	250
	SBL-80x40-3		3	93.5x54.4	24	2x1.5+2x1	2x2.5+2x1.5	102x141x43	340
	SBL-80x80-3		3	93.5x93.5	24	4x1.5	4x2.5	141x141x43	420
	SBL-120x120-3		3	132.5x132.5	24	4x3.5	4x7	180x180x43	650
	SBL-218x218-6		6	237.5x237.5	24	4x10.7	4x12	305.5x305.5x43	1180
	SBL-290x290-6		6	309.5x309.5	24	4x14.2	4x16	377.5x377.5x43	1640
	SBL-386x386-6		6	405.5x405.5	24	4x18	4x22	473.5x473.5x43	2430

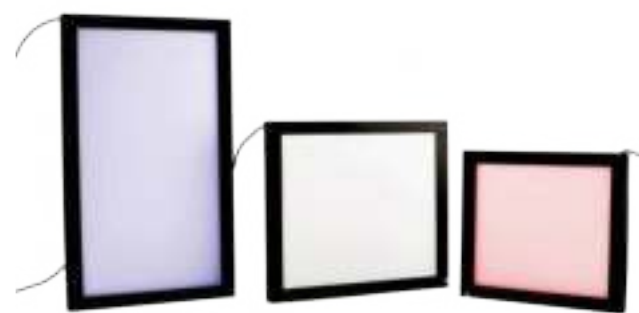
Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

■ Drawing

 SBL-40x40-3	 SBL-80x80-3	 SBL-120x120-3
 SBL-218x218-6	 SBL-290x290-6	 SBL-386x386-6

BACKLIGHT

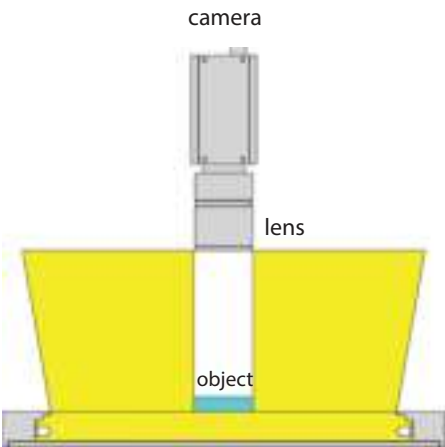
BLN Series



- Customize design to the length & width
- High Uniformly
- Suitable for large area

Application :

- Precision parts size measurement
- Edge damage detection
- Scratches on the surface of transparent objects



BLN	—	110x110	—	00	—	R/G/B/W	—	12/24(V)
Series		Light emitting L x W		LED row		Color		Voltage

Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K
Controller	LC-D GARDASOFT LCC-D			
Optional Accessories	1 : Diffuser 2 : Extension cables : 1m, 3m and 5m			
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%			

Datasheet

Series	Model	Optics			Electric		Size L x W x H (mm)	Weight (g)
		Color	Working distance (mm)	light emitting L x W (mm)	Voltage (V)	(W) ● ○ ● ●		
BLN	BLN-25x25-00	● ○ ● ●	30-100	25x25	24	1.5 3	60x60x9.5	100
	BLN-50x50-00	● ○ ● ●	30-100	50x50	24	2.3 4	85x85x9.5	150
	BLN-70x70-00	● ○ ● ●	30-100	70x70	24	3 7	105x105x9.5	210
	BLN-90x90-00	● ○ ● ●	30-100	90x90	24	3.8 6.2	125x125x9.5	330
	BLN-110x110-00	● ○ ● ●	30-100	110x110	24	4.2 6.8	145x145x9.5	420
	BLN-150x100-00	● ○ ● ●	30-100	150x100	24	4.5 8.5	185x135x9.5	430
	BLN-200x160-00	● ○ ● ●	30-100	200x160	24	6 10	235x195x9.5	720
	BLN-200x200-00	● ○ ● ●	30-100	200x200	24	12 20	235x235x9.5	880
	BLN-250x200-00	● ○ ● ●	30-100	250x200	24	6 12	285x235x9.5	1040
	BLN-300x200-00	● ○ ● ●	30-100	300x200	24	9 15	335x235x9.5	1230
	BLN-300x300-00	● ○ ● ●	30-100	300x300	24	18 30	335x335x9.5	1670
	BLN-400x300-00	● ○ ● ●	30-100	400x300	24	10 17	435x335x9.5	2100
	BLN-600x400-00	● ○ ● ●	30-100	600x400	24	18 26	635x435x9.5	3980

Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

DRAWING

高: 9.5
长: A+35
宽: B+35
B(发光面)
D
C
E
X-φ3.2 贯穿(安装用)
4-6深3
500

Model	Remark	X hole	C	D	E
BLN-25x25-00		2	49	8	
BLN-50x50-00		2	74	33	
BLN-70x70-00		4	50	94	43
BLN-90x90-00		4	70	114	53
BLN-110x110-00		4	90	134	63
BLN-150x100-00		4	130	124	83
BLN-200x160-00		4	180	184	108
BLN-200x200-00		4	180	224	108
BLN-250x200-00		6	230	224	133
BLN-300x200-00		6	280	224	158
BLN-300x300-00		6	280	324	158
BLN-400x300-00		6	380	324	208
BLN-600x400-00		8	190/580	424	308

BLN

BACKLIGHT

BLNP SERIES



Application :

- Precision parts size measurement
- Edge damage detection
- Scratches on the surface of transparent objects

BLNP	—	110x110	—	00	—	R/G/B/W	—	12/24(V)
Series		Light emitting L x W				Color		Voltage

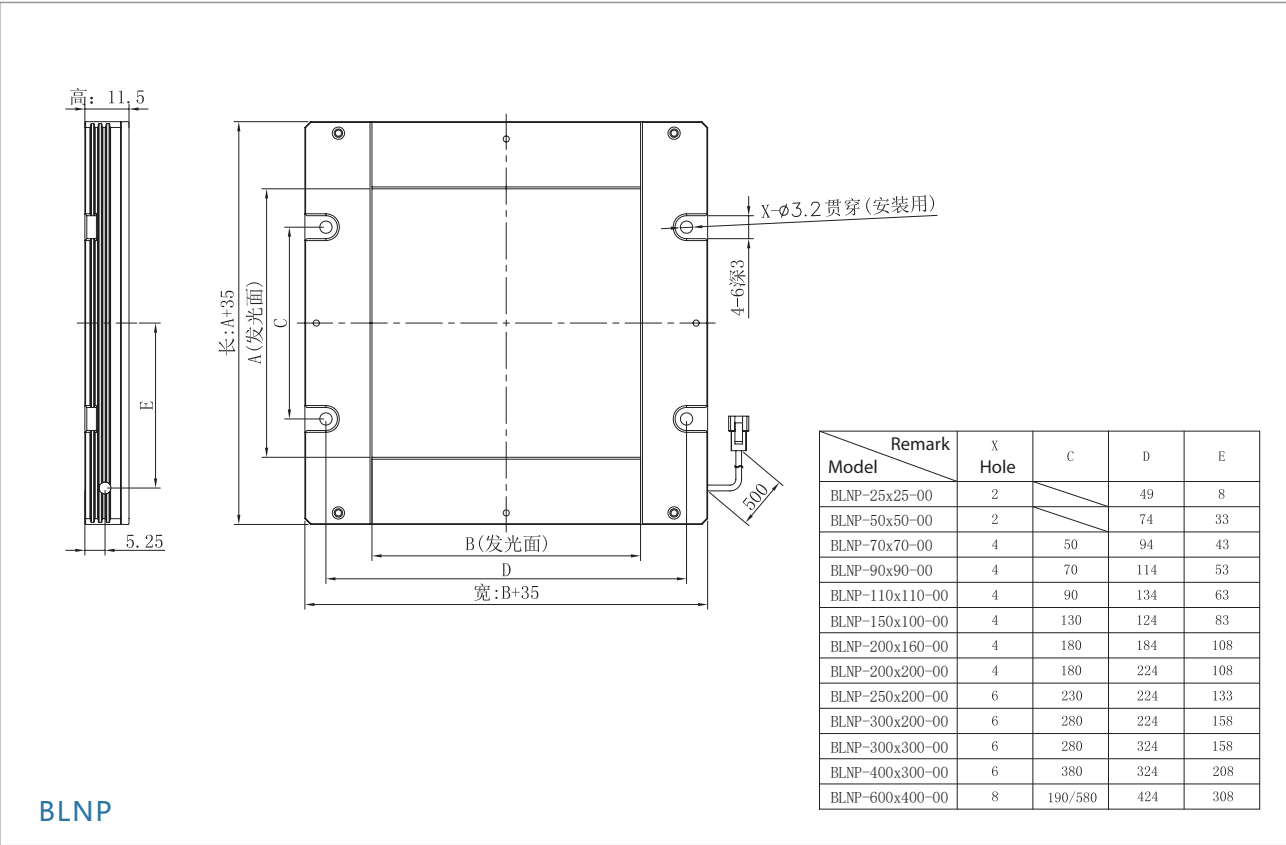
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K
Controller	LC-D GARDASOFT LCC-D			
Optional Accessories	1 : Diffuser 2 : Extension Cable : 1m, 3m, 5m			
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%			

DATASHEET

Series	Model	Optics			Electric			Size	Weight (g)
		Color	Working distance (mm)	light emitting L x W (mm)	Voltage (V)	(W)*		L x W x H (mm)	
BLNP	BLNP-25x25-00		30-100	25x25	24	1.5	3	60x60x11.5	150
	BLNP-50x50-00		30-100	50x50	24	2.3	4	85x85x11.5	170
	BLNP-70x70-00		30-100	70x70	24	3	7	105x105x11.5	240
	BLNP-90x90-00		30-100	90x90	24	3.8	6.2	125x125x11.5	370
	BLNP-110x110-00		30-100	110x110	24	4.2	6.8	145x145x11.5	470
	BLNP-150x100-00		30-100	150x100	24	4.5	8.5	185x135x11.5	490
	BLNP-200x160-00		30-100	200x160	24	6	10	235x195x11.5	820
	BLNP-200x200-00		30-100	200x200	24	12	20	235x235x11.5	1020
	BLNP-250x200-00		30-100	250x200	24	6	12	285x235x11.5	1240
	BLNP-300x200-00		30-100	300x200	24	9	15	335x235x11.5	1450
	BLNP-300x300-00		30-100	300x300	24	18	30	335x335x11.5	1980
	BLNP-400x300-00		30-100	400x300	24	10	17	435x335x11.5	2500
	BLNP-600x400-00		30-100	600x400	24	18	26	635x435x11.5	4480

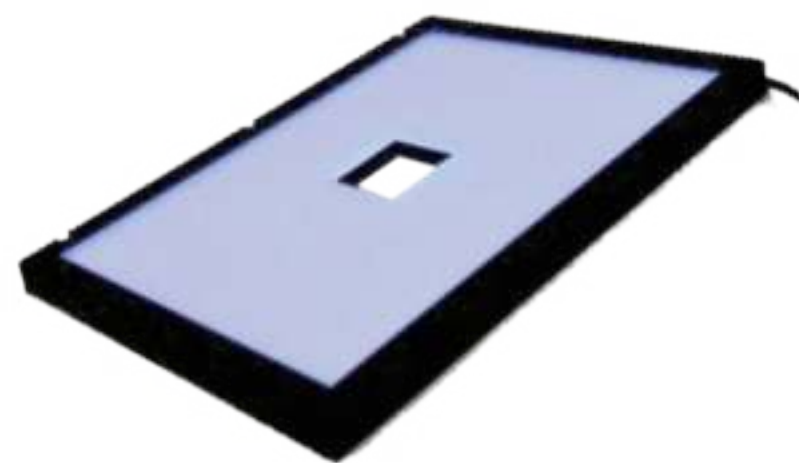
Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

DRAWING



BACKLIGHT

BLNH SERIES



Ultra slim design
customize service
Highly uniform

BLNH	—	150x100	—	00	—	R/G/B/W	—	12/24(V)
Series		Light emitting L x W				Color		Voltage

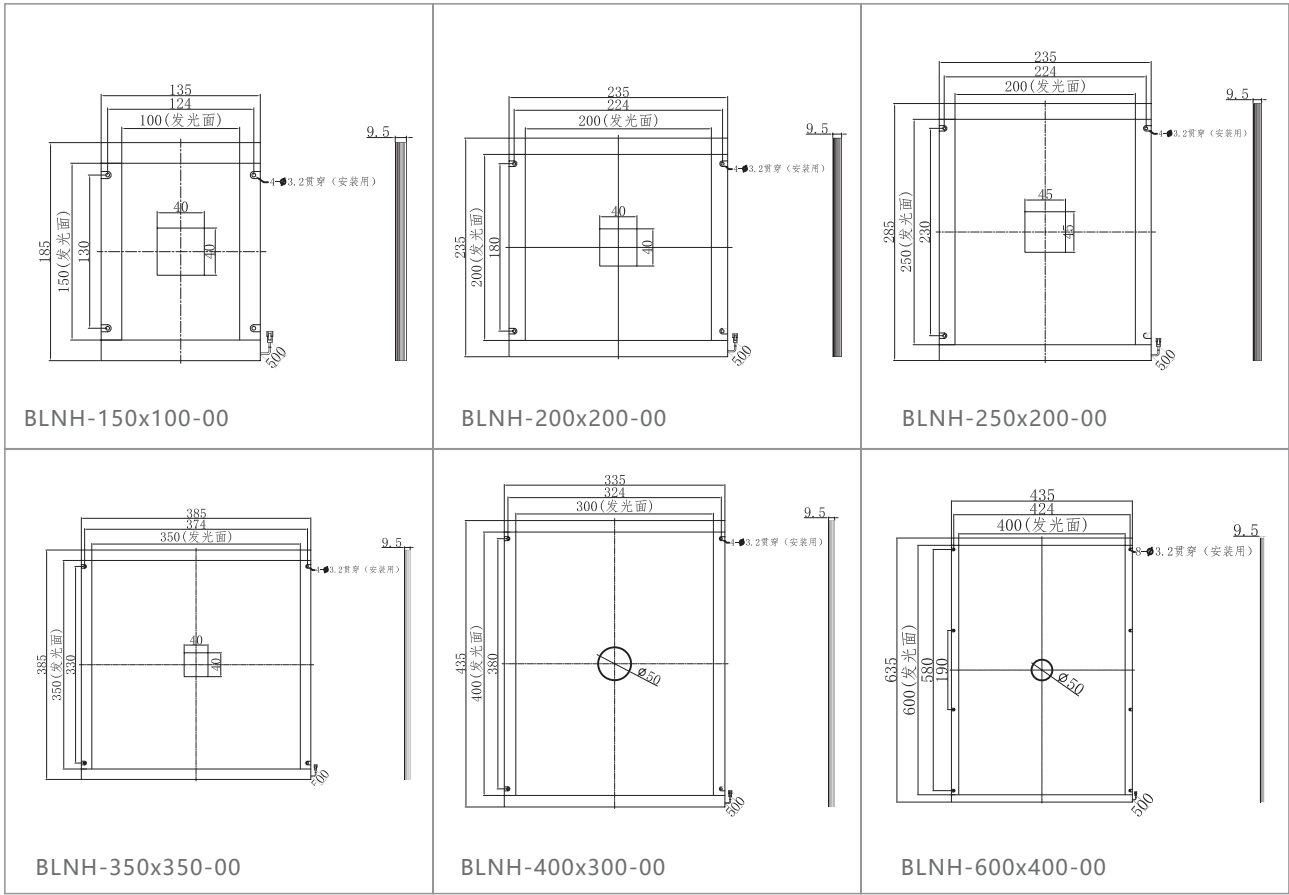
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K
Controller	LC-D GARDASOFT LCC-D			
Optional Accessories	1 : Diffuser 2 : Extension Cable : 1m, 3m, 5m			
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%			

DATASHEET

Series	Model	Optics			Electric			Size	Weight (g)
		Color	light emitting L x W (mm)	Hole	Voltage (V)	(W)		L x W x H (mm)	
				L x W x H (mm)					
BLNH	BLNH-150x100-00		150x100	40x40	24	4.5	8.5	185x135x9.5	390
	BLNH-200x200-00		200x200	40x40	24	12	22	235x235x9.5	840
	BLNH-250x200-00		250x200	45x45	24	6	12	285x235x9.5	990
	BLNH-350x350-00		350x350	40x40	24	20	32	385x385x9.5	2080
	BLNH-400x300-00		400x300	⊠50	24	10	17	435x335x9.5	2070
	BLNH-600x400-00		600x400	⊠50	24	18	32	635x435x9.5	4400

Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

DRAWING



BACKLIGHT

BLK SERIES



Ultra high brightness

DATASHEET

Series	Model	Optics			Electric			Size	Weight (g)
		Color	Working distance (mm)	light emitting L x W (mm)	Voltage (V)	(W)*		L x W x H (mm)	
BLK	BLK-27x27-00	●○●●	30-100	27x27	24	1.5	2	41x41x17	53
	BLK-43x35-00	●○●●	30-100	43x35	24	2	2.5	57x49x17	75
	BLK-50x50-00	●○●●	30-100	50x50	24	4	6.3	64x64x17	85
	BLK-63x60-00	●○●●	30-100	63x60	24	6.2	8	77x74x17	130
	BLK-83x75-00	●○●●	30-100	83x75	24	8	9.5	97x89x17	180
	BLK-100x100-00	●○●●	30-100	100x100	24	8.5	10	114x114x17	245
	BLK-140x105-00	●○●●	30-100	140x105	24	10.2	12	154x119x17	335
	BLK-160x120-00	●○●●	30-100	160x120	24	14	19.8	174x134x17	400
	BLK-200x50-00	●○●●	30-100	200x50	24	8	10	214x64x17	410
	BLK-200x150-00	●○●●	30-100	200x150	24	20.5	22	214x164x17	520
	BLK-211x200-00	●○●●	30-100	211x200	24	21.5	22.5	225x214x17	770
	BLK-224x170-00	●○●●	30-100	224x170	24	20.5	23	238x184x17	600

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DRAWING

The drawing includes three main views: a top view showing dimensions C (length) and B (width), with a note '4-M3 深5 (安装用)'; a side view showing a height of 17mm; and a cross-sectional view A-A showing internal components and a depth of 14mm. A detail view of the corner shows dimensions 4.7, 2.5, 1.2, 8.5, 5.5, and 3.3. A note '局部C 四面, M3螺母, 安装用' points to the corner detail. Another note '局部C' points to a detail in the cross-section. The cross-section A-A shows a depth of 14mm and a width of B (发光面). A dimension of 500 is also indicated.

Model	Remark	C	D
BLK-27x27-00		18	34
BLK-43x35-00		18	42
BLK-50x50-00		18	57
BLK-63x60-00		25	67
BLK-83x75-00		50	82
BLK-100x100-00		50	107
BLK-140x105-00		80	112
BLK-160x120-00		80	127
BLK-200x50-00		80	57
BLK-200x150-00		80	157
BLK-224x170-00		80	177
BLK-211x200-00		80	207

BLK

BLK	—	100x100	—	00	—	R/G/B/W/IR	—	12/24(V)
Series		Light emitting L x W				Color		Voltage

Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm
Controller	LC-D GARDASOFT LCC-D				
Optional Accessories	1 : Diffuser 2 : Extension Cable : 1m, 3m, 5m				
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%				

BACKLIGHT

BLKP SERIES



High precision
Large size measurement

BLKP	—	100x100	—	00	—	R/G/B/W/IR	—	12/24(V)
Series		Light emitting L x W				Color		Voltage

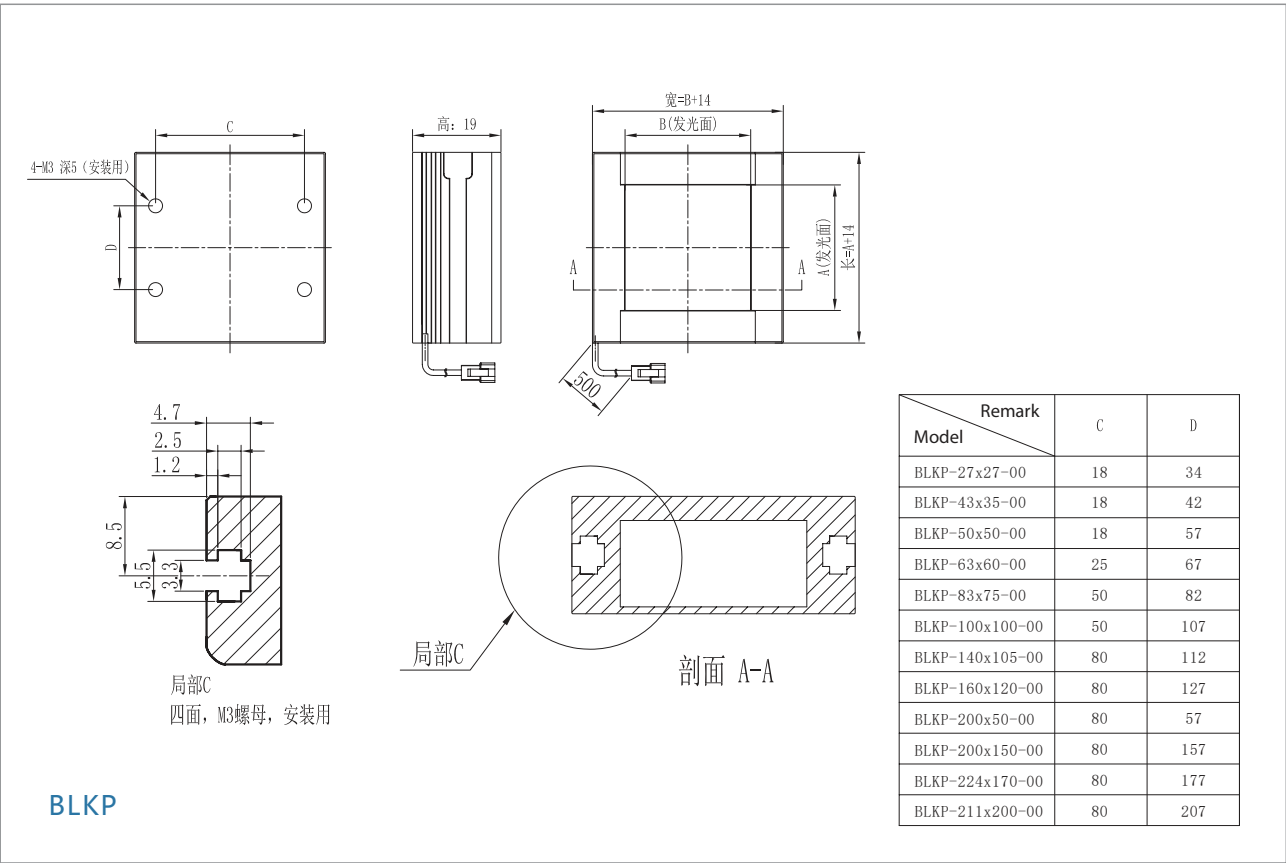
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm
Controller	LC-D GARDASOFT LCC-D				
Optional Accessories	1 : Diffuser 2 : Extension cables : 1m, 3m, 5m				
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%				

DATASHEET

Series	Model	Optics			Electric			Size	Weight (g)
		Color	Working distance (mm)	light emitting L x W (mm)	Voltage (V)	(W)*		L x W x H (mm)	
BLKP	BLKP-27x27-00		30-100	27x27	24	1.5	2	41x41x19	60
	BLKP-43x35-00		30-100	43x35	24	2	2.5	51x49x19	85
	BLKP-50x50-00		30-100	50x50	24	4	6.3	64x64x19	95
	BLKP-63x60-00		30-100	63x60	24	6.2	8	77x74x19	150
	BLKP-83x75-00		30-100	83x75	24	8	9.5	97x89x19	210
	BLKP-100x100-00		30-100	100x100	24	8.5	10	114x114x19	285
	BLKP-140x105-00		30-100	140x105	24	10.2	12	154x119x19	390
	BLKP-160x120-00		30-100	160x120	24	14	19.8	174x134x19	460
	BLKP-200x50-00		30-100	200x50	24	8	10	214x64x19	475
	BLKP-200x150-00		30-100	200x150	24	20.5	22	214x164x19	600
	BLKP-211x200-00		30-100	211x200	24	21.5	22.5	225x214x19	690
	BLKP-224x170-00		30-100	224x170	24	20.5	23	238x184x19	890

Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

DRAWING



BACKLIGHT

CPL SERIES



Highly uniform
Parallel output

CPL	—	100x80	—	00	—	R/G/B/W	—	12/24(V)
Series		Light emitting L x W				Color		Voltage

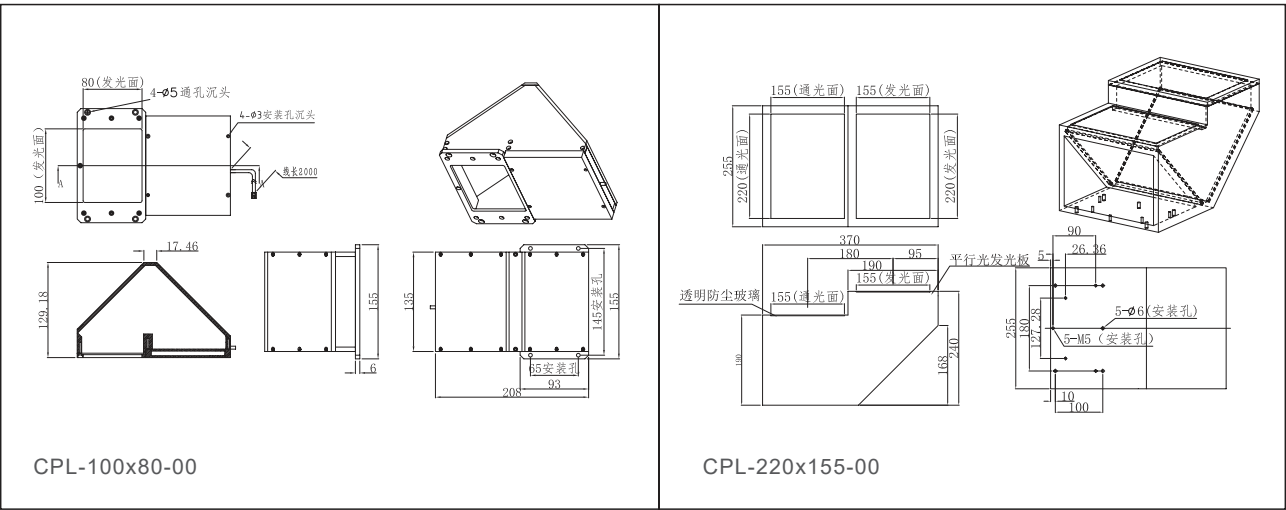
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K
Controller	LC-D GARDASOFT LCC-D			
Optional Accessories	1 : Diffuser 2 : Extension cables : 1m, 3m and 5m			
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%			

DATASHEET

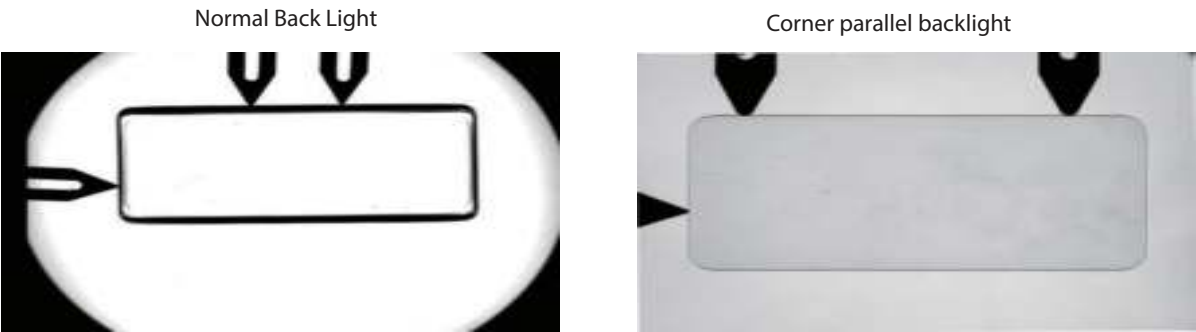
Series	Model	Optics		Electric		Size L x W x H (mm)	Weight (g)
		Color	light emitting L x W (mm)	Voltage (V)	(W)*		
CPL	CPL-100x80-00	●○●●	100x80	24	6.2	11.8	208x155x130
	CPL-220x155-00	●○●●	220x155	24	14.5	23.6	370x255x240

Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

DRAWING



COMPARISON



COAXIAL LIGHT SOURCE

CAL SERIES



- high brightness
- High LED density
- Special materials can effectively eliminate image ghosting
- High uniformity

- **Application :**
- High reflective surface scratch detection
 - QR code detection
 - Chip, wafer breakage detection

CAL	—	50	—	00	—	R/G/B/W/IR/UV	—	12/24(V)
Series		Light emitting				Color		Voltage

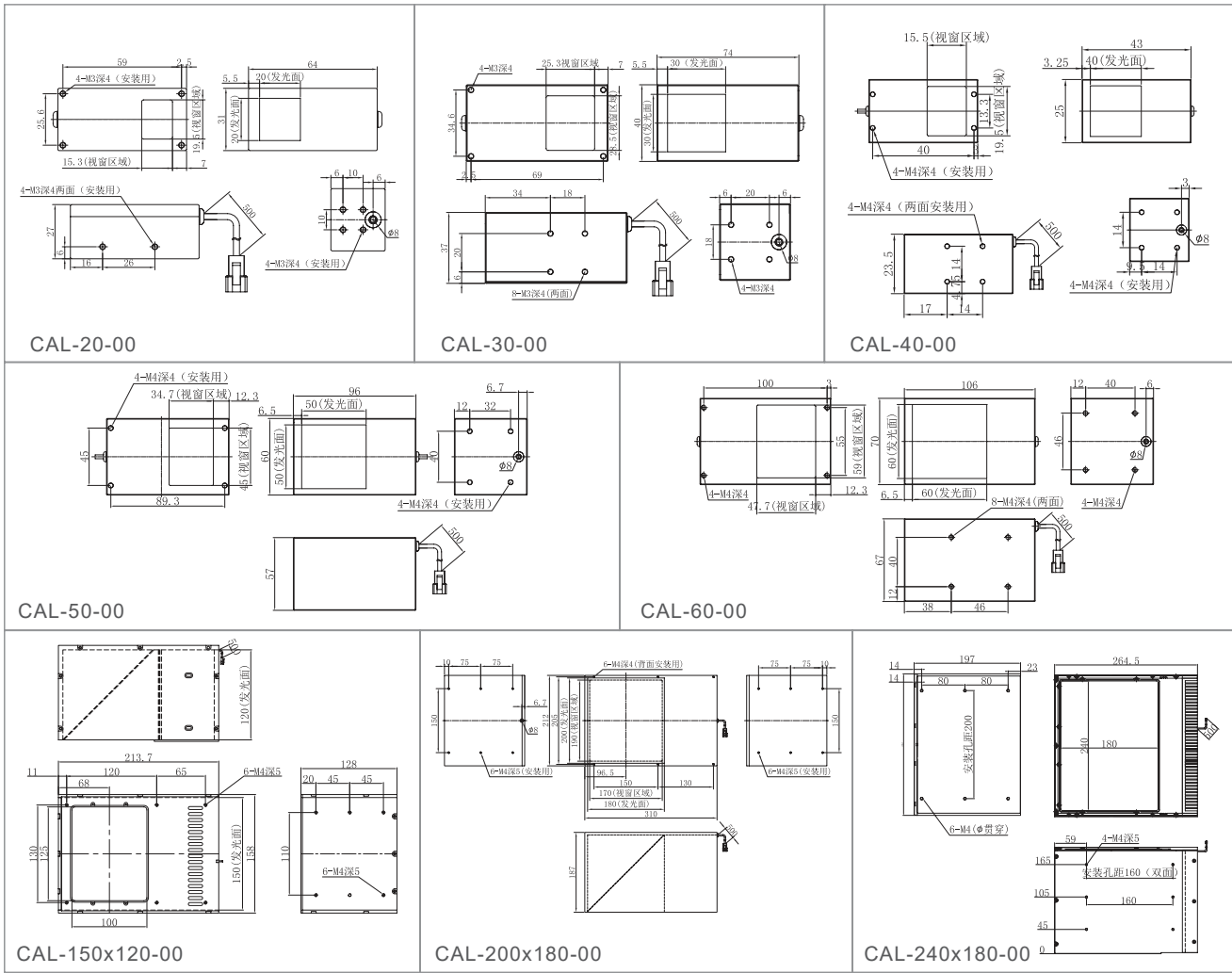
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm	UV : 375-405nm
Controller	LC-D GARDASOFT LCC-D					
Optional Accessories	1 : Diffuser 2 : Extension Cable : 1m, 3m, 5m					
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%					

DATASHEET

Series	Model	Optics		Electric			Size	Weight (g)
		Color	light emitting L x W (mm)	Voltage (V)	(W)*		L x W x H (mm)	
CAL	CAL-20-00		20x20	24	2.2	2.1	64x31x27	110
	CAL-30-00		30x30	24	1.8	2.5	74x40x37	135
	CAL-40-00		40x40	24	2.7	3.7	86x50x47	220
	CAL-50-00		50x50	24	5.3	6.1	96x60x57	320
	CAL-60-00		60x60	24	7.2	9.8	106x70x67	420
	CAL-70-00		75x73	24	10.1	12.0	120x85.4x79	590
	CAL-80-00		85x83	24	13.2	17.1	130x95.4x89	710
	CAL-100-00		100x100	24	17.7	26.8	146x110x107	1010
	CAL-120-00		120x120	24	21.2	27.0	166x130x127	1400
	CAL-150x120-00		150x120	24	22.5	20.7	166x160x127	1660
	CAL-200x180-00		200x180	24	24.2	25.2	310x212x187	4800
	CAL-240x180-00		240x180	24	35	45	262x197x264.5	6000

Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

DRAWING



COAXIAL LIGHT SOURCE

CALP SERIES



90° Lighting, multiple applications

CALP	—	50	—	00	—	R/G/B/W/IR/UV	—	12/24(V)
Series		Light emitting				Color		Voltage

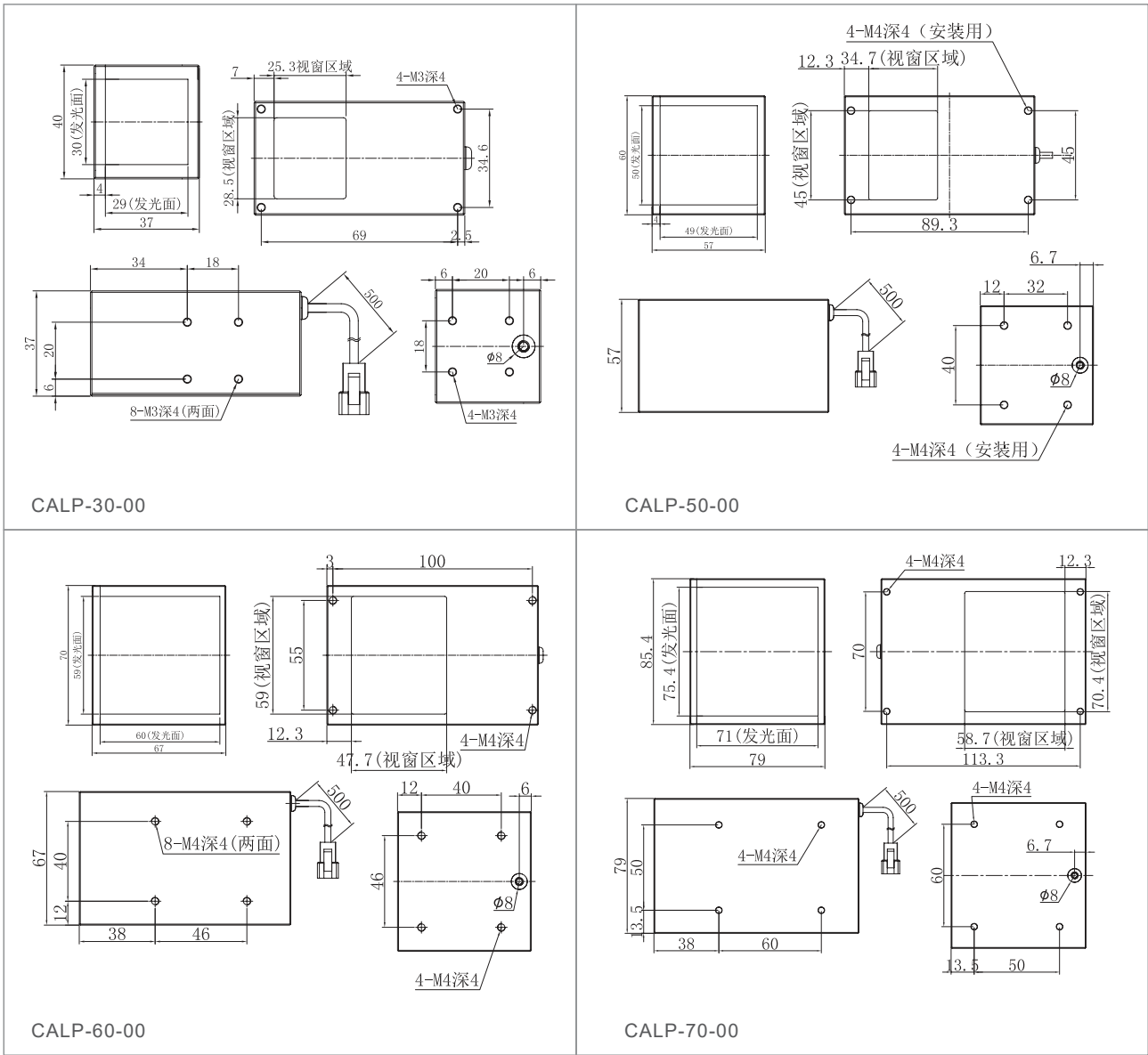
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm	UV : 365-405nm
Controller	LC-D GARDASOFT LCC-D					
Optional Accessories	1 : Diffuser 2 : Extension Cable : 1m, 3m, 5m					
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%					

DATASHEET

Series	Model	Optics		Electric		Size L x W x H (mm)	Weight (g)
		Color	light emitting L x W (mm)	Voltage (V)	(W)* ● ○ ● ●		
CALP	CALP-30-00	● ○ ● ●	30x29	24	1.7 2.2	74x40x37	130
	CALP-50-00	● ○ ● ●	50x49	24	5.5 5.5	96x60x57	310
	CALP-60-00	● ○ ● ●	60x60	24	6.1 12.1	106x70x67	420
	CALP-70-00	● ○ ● ●	75x73	24	7.8 14.4	120x79x85.4	590

Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

DRAWING

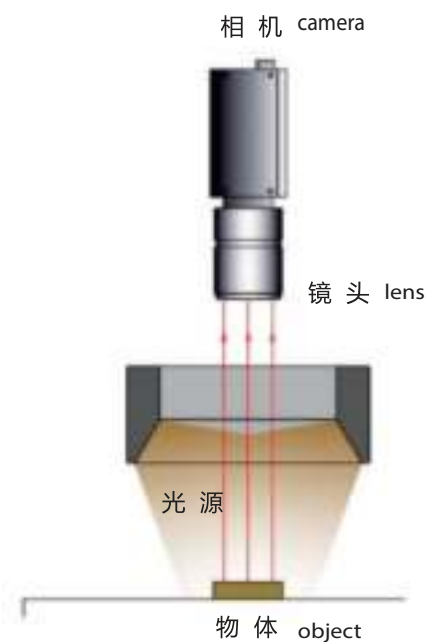


SHADOWLESS LIGHT SOURCE

DRL SERIES



Different working distances form different lighting effects



Application :

- BGA, QFP position detection
- Surface defects detection

DRL	—	100	—	1	—	60	—	R/G/B/W/IR	—	12/24(V)
Series		Outer		LED row		Angle		Color		Voltage

Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm
Controller	LC-D GARDASOFT LCC-D				
Optional Accessories	1 : Diffuser 2 : Extension cables : 1m, 3m, 5m				
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%				

DATASHEET

Series	Model	Optics			Electric			Size	Weight (g)
		Color	LED row	Angle	Voltage (V)	(W)*		I x E x D (mm)	
							  		
DRL	DRL-88-1-60	   	1	60	24	4.6	7.5	88x60x37	180
	DRL-100-1-60	   	1	60	24	1.9	7.8	100x73x40	210
	DRL-136-1-60	   	1	60	24	6.6	12.4	136x109x40	300
	DRL-180-1-60	   	1	60	24	9.5	13.8	180x153x40	390
	DRL-250-1-60	   	1	60	24	13.1	32.8	250x210x50	960

Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

DRAWING

DRL-88-1-60	DRL-100-1-60
DRL-136-1-60	DRL-180-1-60
DRL-250-1-60	

SHADOWLESS LIGHT SOURCE

DRL SERIES



Ultra-high brightness
Highly uniform

■ Application :

- High reflective product appearance inspection
- Electronic parts defects inspection

DRL	—	150	—	1	—	45	—	R/G/B/W/IR	—	12/24(V)
Series		Outer diameter		LED row		Angle		Color		Voltage

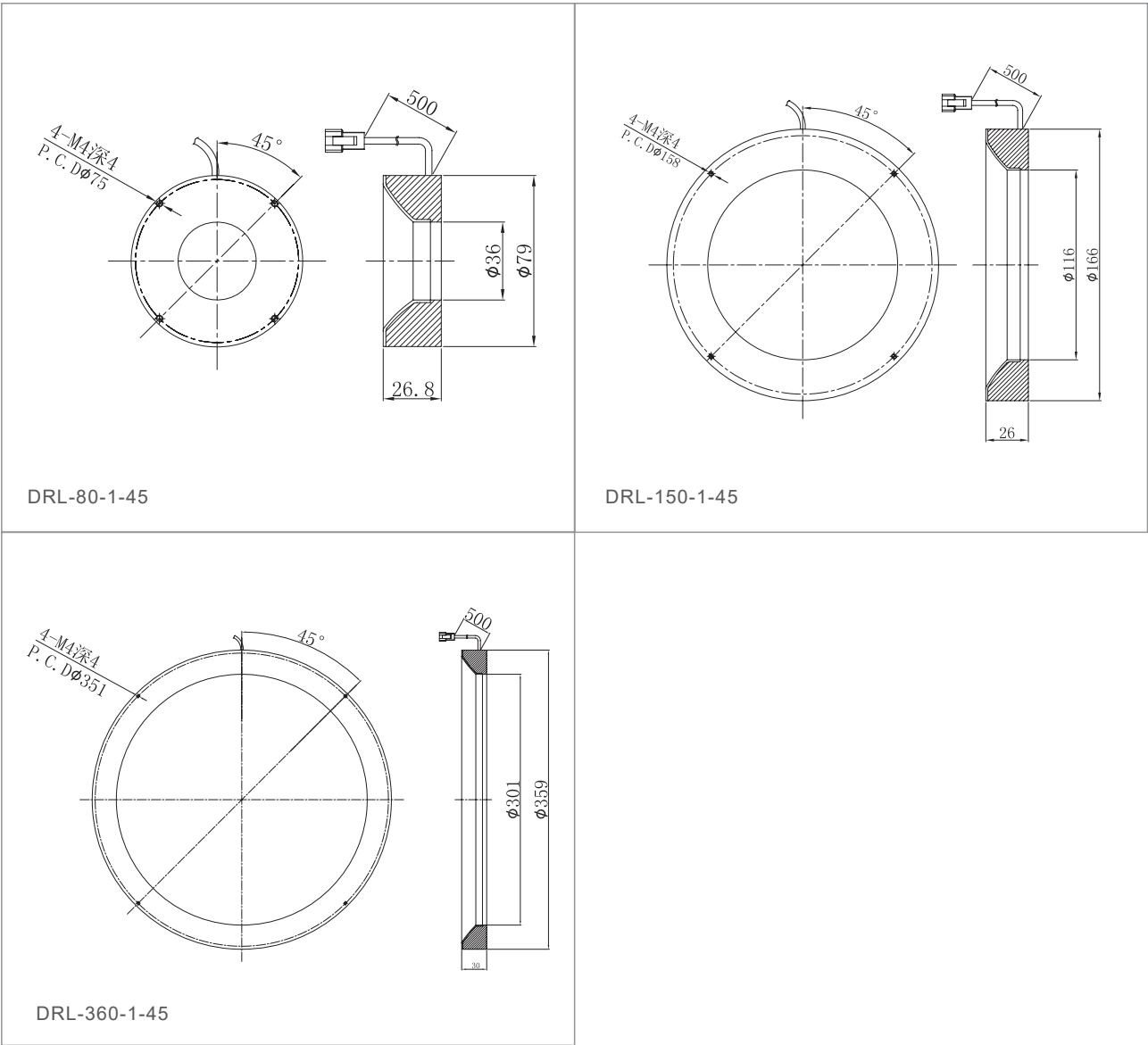
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm
Controller	LC-D GARDASOFT LCC-D				
Optional Accessories	1 : Diffuser 2 : Extension cables : 1m, 3m, 5m				
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%				

■ DATASHEET

Series	Model	Optics			Electric			Size	Weight (g)
		Color	LED row	Angle	Voltage (V)	(W)*			
								LxWxH (mm)	
DRL	DRL-80-1-45		1	45	24	5.0	6.0	79x36x26.8	180
	DRL-150-1-45		1	45	24	13.2	19.2	166x116x26	330
	DRL-360-1-45		1	45	24	30	36	359x301x30	1000

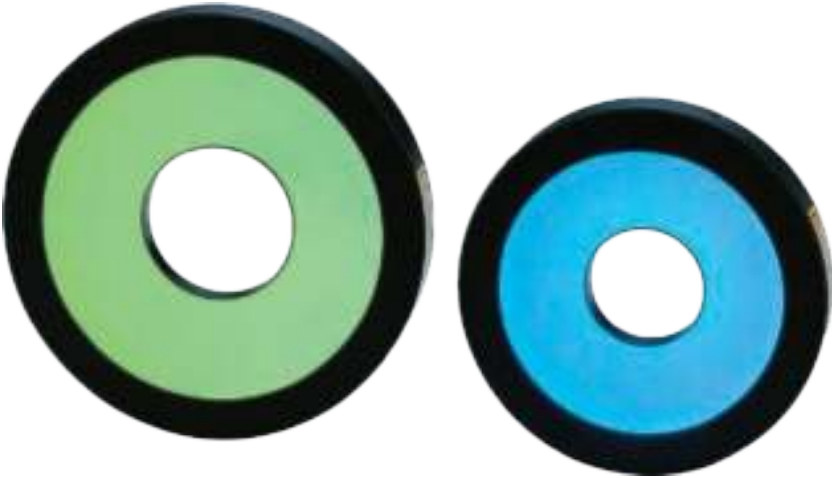
Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

■ DRAWING



SHADOWLESS LIGHT SOURCE

DFA SERIES



Eliminate reflective interference
High brightness
Provides average diffuse lighting

Application :

- Curved products defect detection
- Label symbol recognition

DFA	—	74	—	2	—	R/G/B/W/IR	—	12/24(V)
Series		Outer diameter		LED row		Color		Voltage

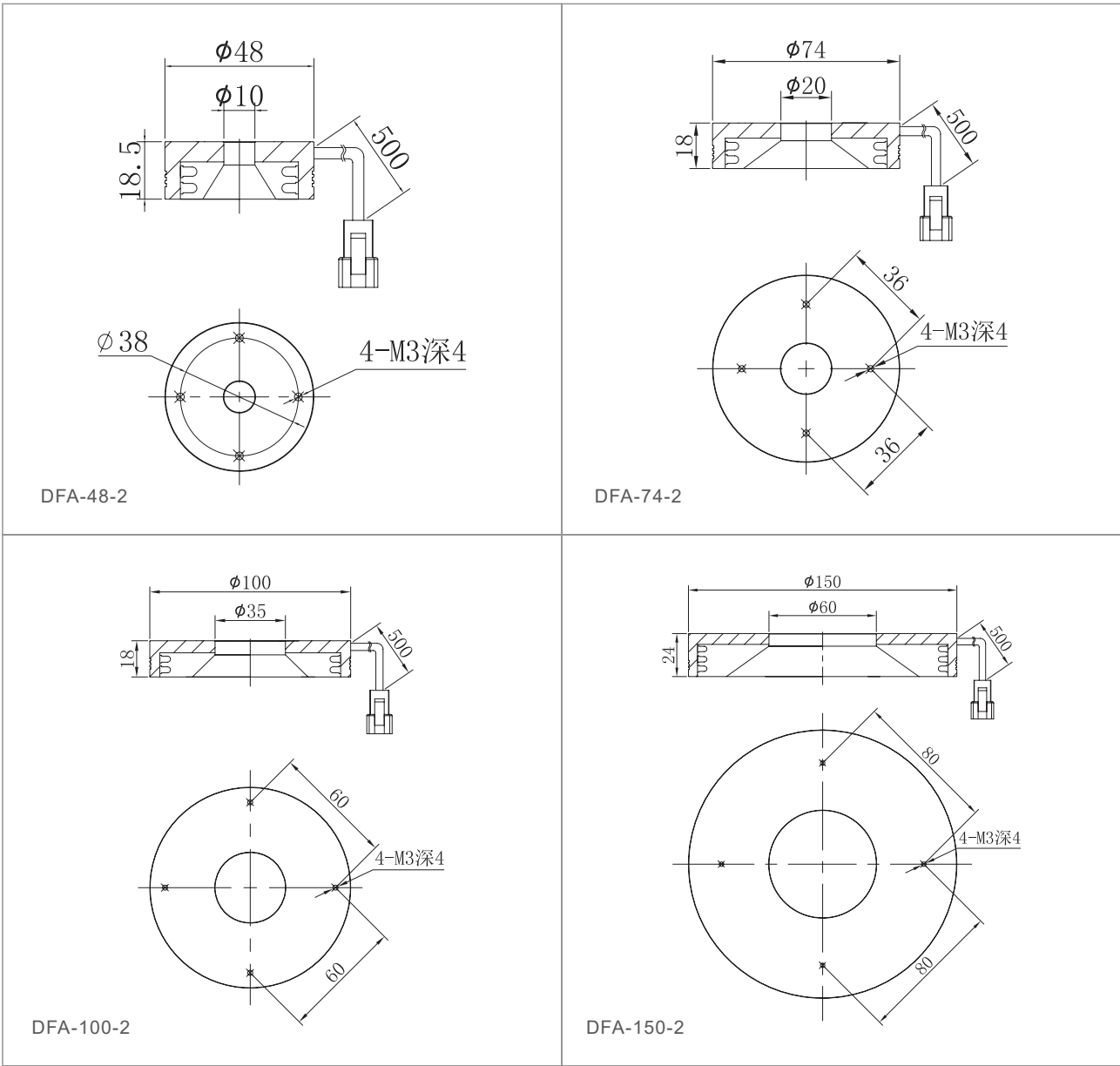
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm
Controller	LC-D GARDASOFT LCC-D				
Optional Accessories	1 : Diffuser 2 : Extension Cable : 1m, 3m, 5m				
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%				

DATASHEET

Series	Model	Optics		Electric		Size L x W x H (mm)	Weight (g)
		Color	LED row	Voltage (V)	(W)* ● ○ ● ●		
DFA	DFA-48-2	● ○ ● ●	2	24	2.2 3.8	48x10x18.5	60
	DFA-74-2	● ○ ● ●	2	24	3.6 6.3	74x20x18	110
	DFA-100-2	● ○ ● ●	2	24	7.4 9.7	100x35x18	170
	DFA-120-2	● ○ ● ●	3	24	9.9 12.7	120x45x18	250
	DFA-150-2	● ○ ● ●	3	24	15.0 20.2	150x60x24	400

Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

DRAWING



SHADOWLESS LIGHT SOURCE

DWA SERIES



Customized service
High brightness
Shadowless lighting

DWA	—	32	—	1	—	R/G/B/W/IR	—	12/24(V)
Series		Light emitting		LED row		Color		Voltage

Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm
Controller	LC-D GARDASOFT LCC-D				
Optional Accessories	1 : Diffuser 2 : Extension Cable : 1m, 3m, 5m				
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%				

DATASHEET

Series	Model	Optics				Electric			Size	Weight (g)
		Color	LED row	Working distance (mm)	Hole size (mm)	Voltage (V)	(W)*		E x H (mm)	
DWA	DWA-20-1		1	5	5x5	24	1.5	2.0	20x20x23	30
	DWA-32-1		1	5	10x10	24	2.2	2.9	32x32x30	50
	DWA-48-1		1	5	26x26	24	4.2	6.2	48x48x30	70
	DWA-75-1		1	12	53x53	24	9.9	9.4	75x75x30	120
	DWA-96-1		1	15	74x74	24	12.9	11.5	96x96x30	150
	DWA-120-1		1	25	98x98	24	15.2	16.8	120x120x30	185
	DWA-200x120-1		1	35	177x97	24	15.5	21.8	200x120x30	300
	DWA-300x200-1		1	40	268x168	24	16	22	200x300x30	450

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DRAWING

DWA-20-1	DWA-32-1	DWA-48-1
DWA-75-1	DWA-96-1	DWA-120-1
DWA-200x120-1	DWA-300x200-1	

POINTLIGHT

SPL SERIES



Special lens combination
High brightness
High uniformity lighting

SPL	—	21	08	—	3	—	R/G/B/W/IR/UV	—	12/24(V)
Series		Outer diameter (max)	Interface diameter		Power		Color		Voltage

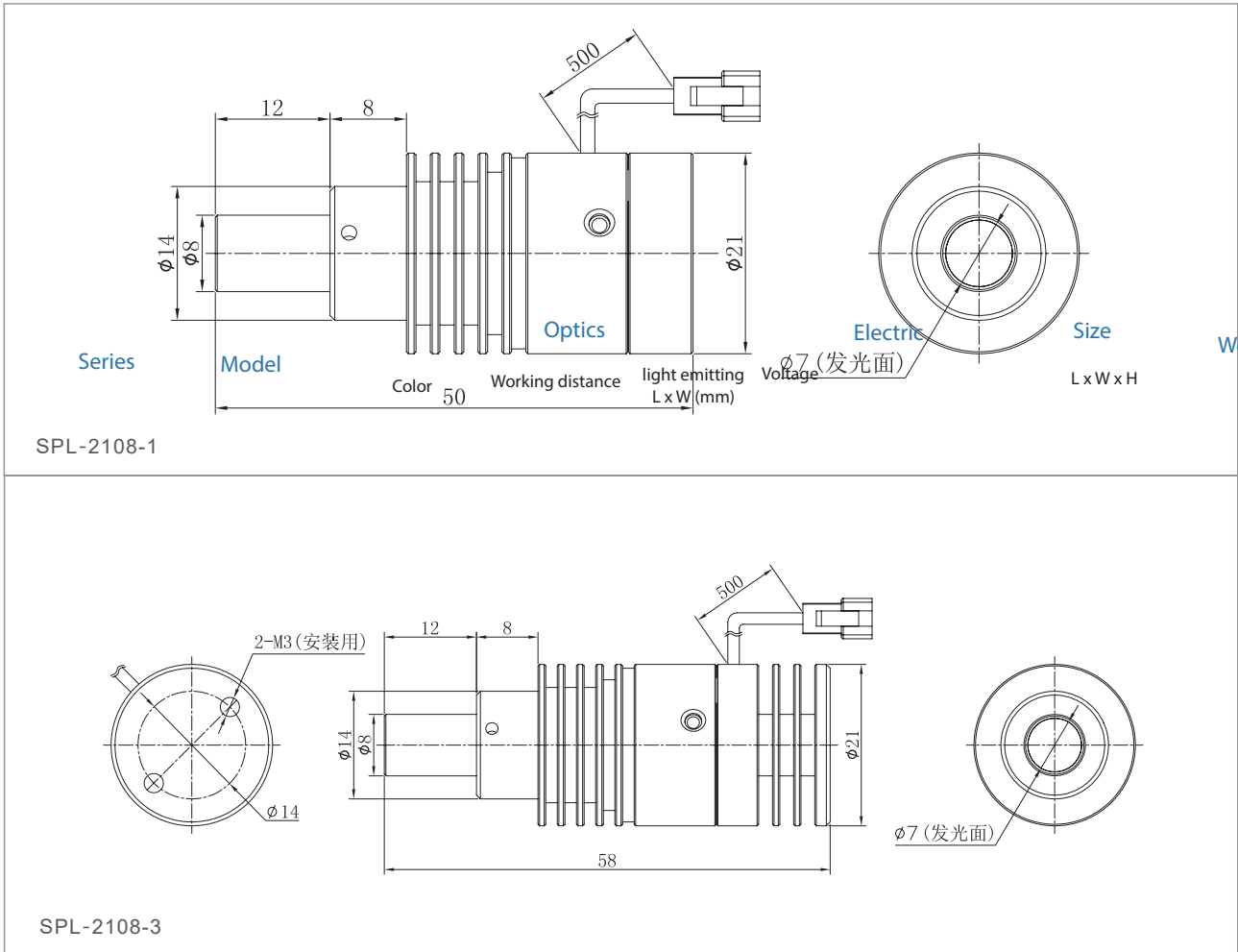
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm	UV : 375-405nm
Controller	LC-D GARDASOFT LCC-D					
Optional Accessories	1 : Diffuser 2 : Extension Cable : 1m, 3m, 5m					
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%					

DATASHEET

Series	Model	Optics			Electric		Size	Weight (g)
		Color	Light emitting (mm)	Interface diameter (mm)	Voltage (V)	(W)*	E x H (mm)	
SPL	SPL-2108-3R	●	7	8	5	3.0	21x58	36.5
	SPL-2108-3W	○	7	8	5	3.0	21x58	
	SPL-2108-3B	●	7	8	5	3.0	21x58	
	SPL-2108-3G	●	7	8	5	3.0	21x58	
	SPL-2108-1R	●	7	8	5	1.0	21x50	30.5
	SPL-2108-1W	○	7	8	5	1.0	21x50	
	SPL-2108-1B	●	7	8	5	1.0	21x50	
	SPL-2108-1G	●	7	8	5	1.0	21x50	

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DRAWING



AOI LIGHT

DOM SERIES



Multi color
Multi angle
High-accuracy level of information

DOM	—	200	—	R/G/B/W/IR	—	12/24(V)
Series		Outer diameter		Color		Voltage

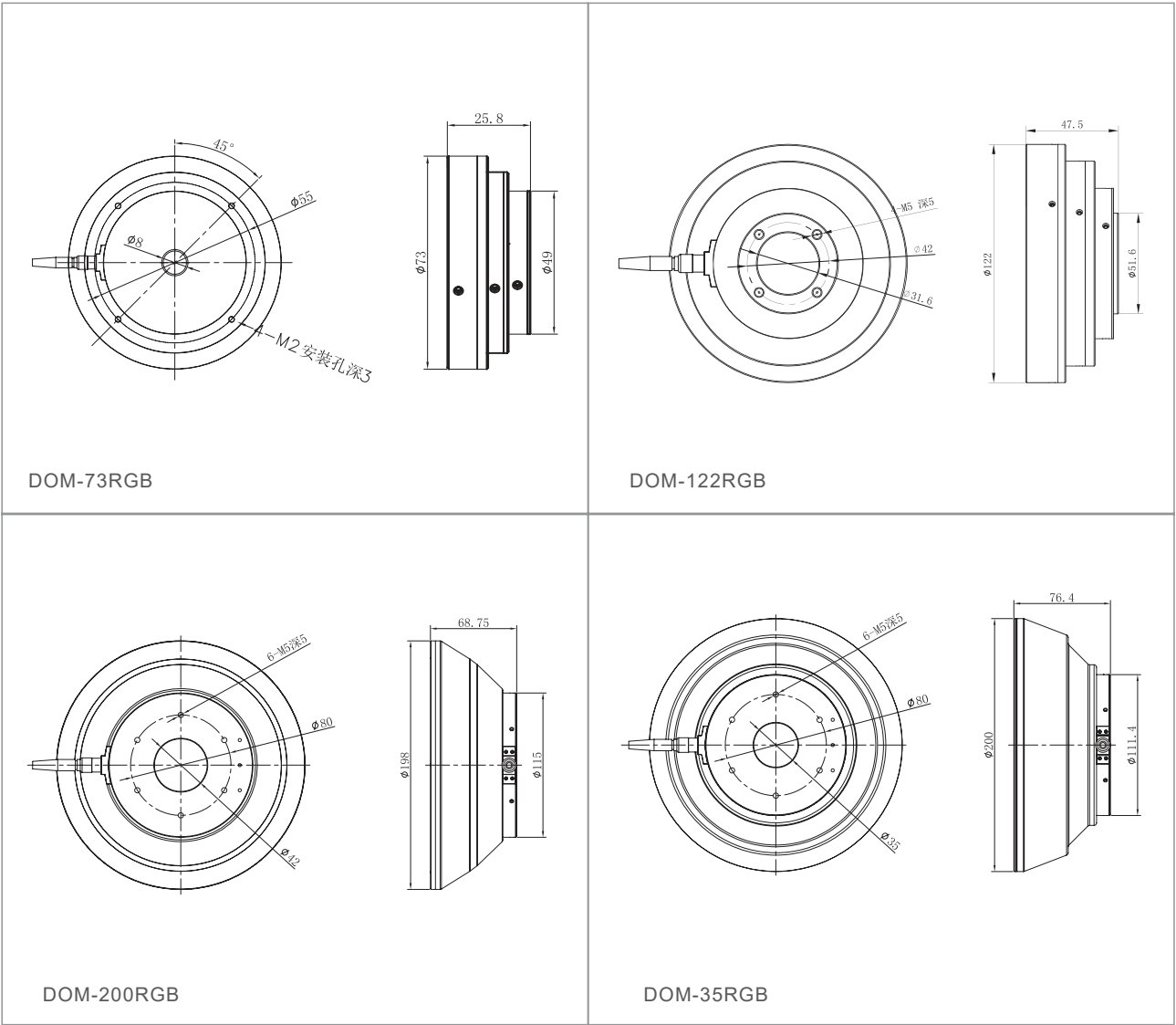
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm
Controller	LC-D GARDASOFT LCC-D				
Optional Accessories	1 : Diffuser 2 : Extension cables : 1m, 3m, 5m				
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%				

DATASHEET

Series	Model	Optics		Electric		Size	Weight (g)
		Working distance (mm)	Inner hole (mm)	Voltage (V)	(W)*	Ex l x H (mm)	
DOM	DOM-73RGB	20-30	8	24	3	738x8x28.5	500
	DOM-122RGB	25-35	31.6	24	25	77x31.6x47.5	850
	DOM-200RGB	25-45	42	24	32.2	198x42x68.8	1110
	DOM-35RGB	25-45	35	24	46.2	200x35x76.4	1250

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DRAWING



REFLECTIVE MULTI-ANGLELINE SCANNING SOURCE

MAL SERIES



■ Application :

- Scratches and bubbles on the glass surface of the mobile phone
- Suitable for detection of different reflective surfaces

MAL	—	215	—	R/G/B/W/IR/UV	—	12/24(V)
Series		Light emitting		Color		Voltage

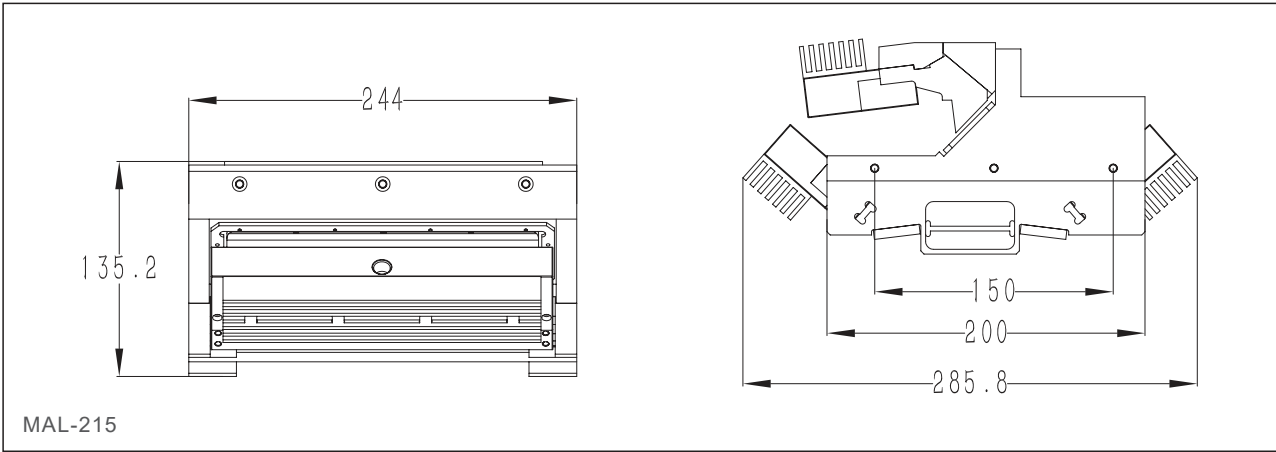
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm	UV : 375-405nm
Optional Accessories	1 : Diffuser 2 : Extension cables : 1m, 3m, 5m					
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%					

■ DATASHEET

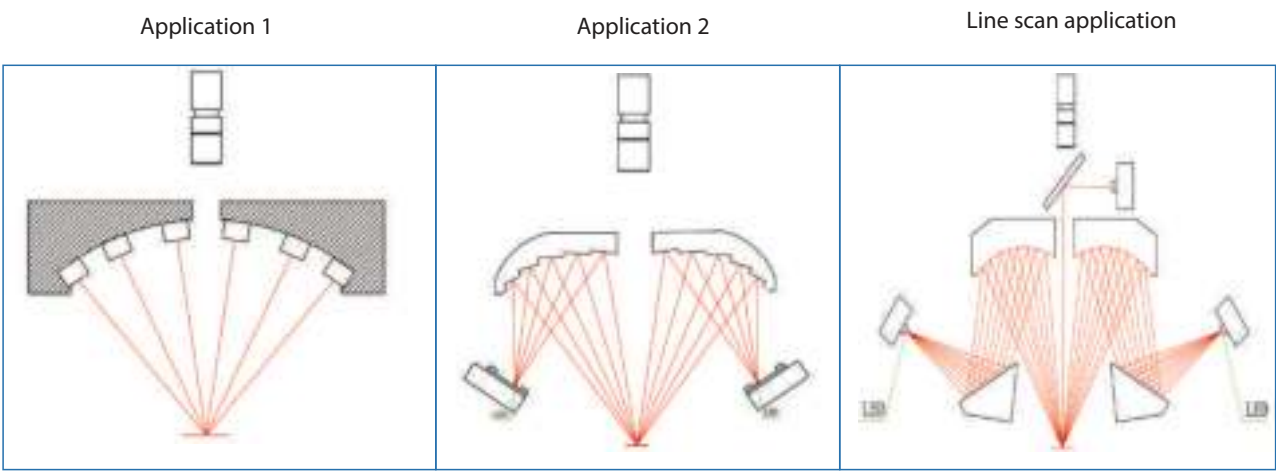
Series	Model	Optics		Electric		Size	Weight (g)
		Color	light emitting (mm)	Voltage (V)	(W)	L x W x H (mm)	
MAL	MAL-215	—	215x25	24	300	244x286x135	5300

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■ DRAWING



■ Application Examples :



多条线光不同角度直接照射聚光照射角度有限，适用于要求不高场合照明，特征不明显。体积大重量重，光效低。
可应用于: PCB,塑料壳等表面不光滑产品

采用多条反光镜反射聚光照射角度较丰富，适用于要求较高场合照明，特征比较明显。体积适中，光效高。
可应用于:手机玻璃盖板、LCD基板、PCB裸板等外观检测。

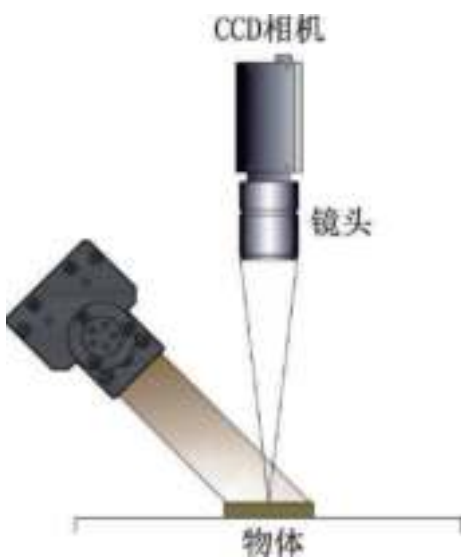
采用多次非球面光学反射聚光同时具有同轴线光照射角度更为丰富，适用范围广,特征明显。体积适中，光效高。
可应用于:手机玻璃盖板、LCD基板电池隔膜、PCB裸板等外观检测及PCBA,触控面板的损伤与凹痕等反光表面不同形状不同的工艺检测。

LINEAR LIGHT SOURCE

HSL SERIES



- Good uniformity
- Front and back lighting
- High stability
- Strong heat dissipation



HSL	—	100	—	H	—	R/G/B/W/IR/UV	—	12/24(V)
Series		Luminous length		Brightness		Color		Voltage

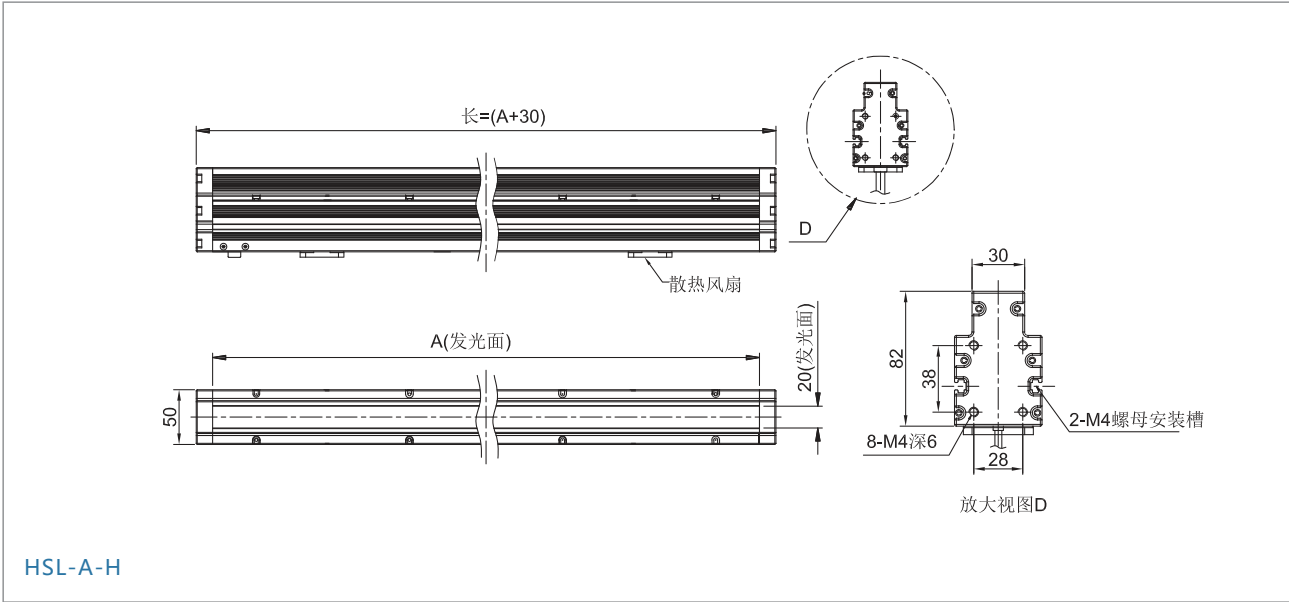
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm	UV : 365-405nm
Controller	LC-D GARDASOFT LCC-D					
Optional Accessories	Extension Cable : 1m, 3m, 5m					
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%					

DATASHEET

Series	Model	Optics			Electric		Size	Weight (g)
		Color	Working distance (mm)	light emitting L x W (mm)	(W) *		L x W x H (mm)	
HSL	HSL-100-H		50-120	100x20	25		130x50x82	500
	HSL-200-H		50-120	200x20	50		230x50x82	900
	HSL-250-H		50-120	250x20	62.5		280x50x82	1100
	HSL-300-H		50-120	300x20	75		330x50x82	1300
	HSL-350-H		50-120	350x20	87.5		380x50x82	1400
	HSL-400-H		50-120	400x20	100		430x50x82	1600
	HSL-500-H		50-120	500x20	125		530x50x82	1900
	HSL-600-H		50-120	600x20	150		630x50x82	2300
	HSL-700-H		50-120	700x20	175		730x50x82	2800
	HSL-750-H		50-120	750x20	187.5		780x50x82	3000
	HSL-800-H		50-120	800x20	200		830x50x82	3200
	HSL-850-H		50-120	850x20	212.5		880x50x82	3400
	HSL-900-H		50-120	900x20	225		930x50x82	3600
	HSL-950-H		50-120	950x20	240.5		980x50x82	3700
	HSL-1000-H		50-120	1000x20	250		1030x50x82	3900
	HSL-1050-H		50-120	1050x20	262.5		1080x50x82	4100
	HSL-1100-H		50-120	1100x20	275		1130x50x82	4300
	HSL-1150-H		50-120	1150x20	387.5		1180x50x82	4500
	HSL-1200-H		50-120	1200x20	300		1230x50x82	4800
	HSL-1300-H		50-120	1300x20	325		1330x50x82	5100
	HSL-1350-H		50-120	1350x20	337.5		1380x50x82	5300
	HSL-1400-H		50-120	1400x20	350		1430x50x82	5500
	HSL-1500-H		50-120	1500x20	375		1530x50x82	5900
	HSL-1600-H		50-120	1600x20	400		1630x50x82	6200

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DRAWING



HSL-A-H

LINEAR LIGHT SOURCE

SWL SERIES



■ High-speed, large-format, high-brightness linear lighting

- Front and back lighting
- High stability

SWL	—	100	—	H	—	R/G/B/W/IR/UV	—	12/24(V)
Series		Luminous length		Brightness		Color		Voltage

Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm	UV : 365-405nm
Controller	LC-D LCC-D GARDASOFT					
Optional Accessories	Extension Cable : 1m, 3m, 5m					
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%					

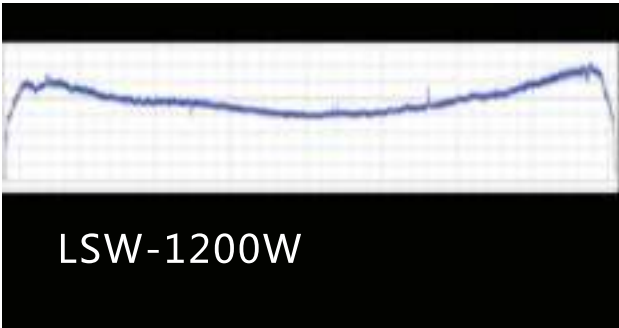
■ DATASHEET

Series	Model	Optics			Electric	Size	Weight (g)
		Color	Working distance (mm)	light emitting L x W (mm)	(W)*	L x W x H (mm)	
SWL	SWL-100-H	●○●●	50-120	100x20	29.4	130x50x82	700
	SWL-200-H	●○●●	50-120	200x20	54.6	230x50x82	1100
	SWL-300-H	●○●●	50-120	300x20	75.6	330x50x82	1500
	SWL-400-H	●○●●	50-120	400x20	96.6	430x50x82	1900
	SWL-500-H	●○●●	50-120	500x20	117.6	530x50x82	2300
	SWL-600-H	●○●●	50-120	600x20	138.6	630x50x82	2700
	SWL-700-H	●○●●	50-120	700x20	155.4	730x50x82	3100
	SWL-800-H	●○●●	50-120	800x20	172.2	830x50x82	3500
	SWL-900-H	●○●●	50-120	900x20	189.0	930x50x82	3900
	SWL-1000-H	●○●●	50-120	1000x20	205.8	1030x50x82	4300
	SWL-1100-H	●○●●	50-120	1100x20	222.6	1130x50x82	4700
	SWL-1200-H	●○●●	50-120	1200x20	239.4	1230x50x82	5100
	SWL-1300-H	●○●●	50-120	1300x20	256.2	1330x50x82	5500
	SWL-1400-H	●○●●	50-120	1400x20	273.0	1430x50x82	5900
	SWL-1500-H	●○●●	50-120	1500x20	289.8	1530x50x82	6300

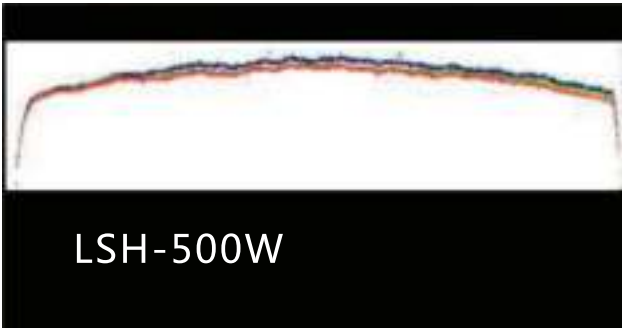
Remark : All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

■ APPLICATION EXAMPLES

Curved light source



Ordinary linear light source



LINEAR LIGHT SOURCE

LCAL SERIES



High-speed, large-format, high-brightness axis lighting

LCAL	—	300	—	H	—	R/G/B/W/IR/UV	—	12/24(V)
Series		Luminous length		Brightness		Color		Voltage

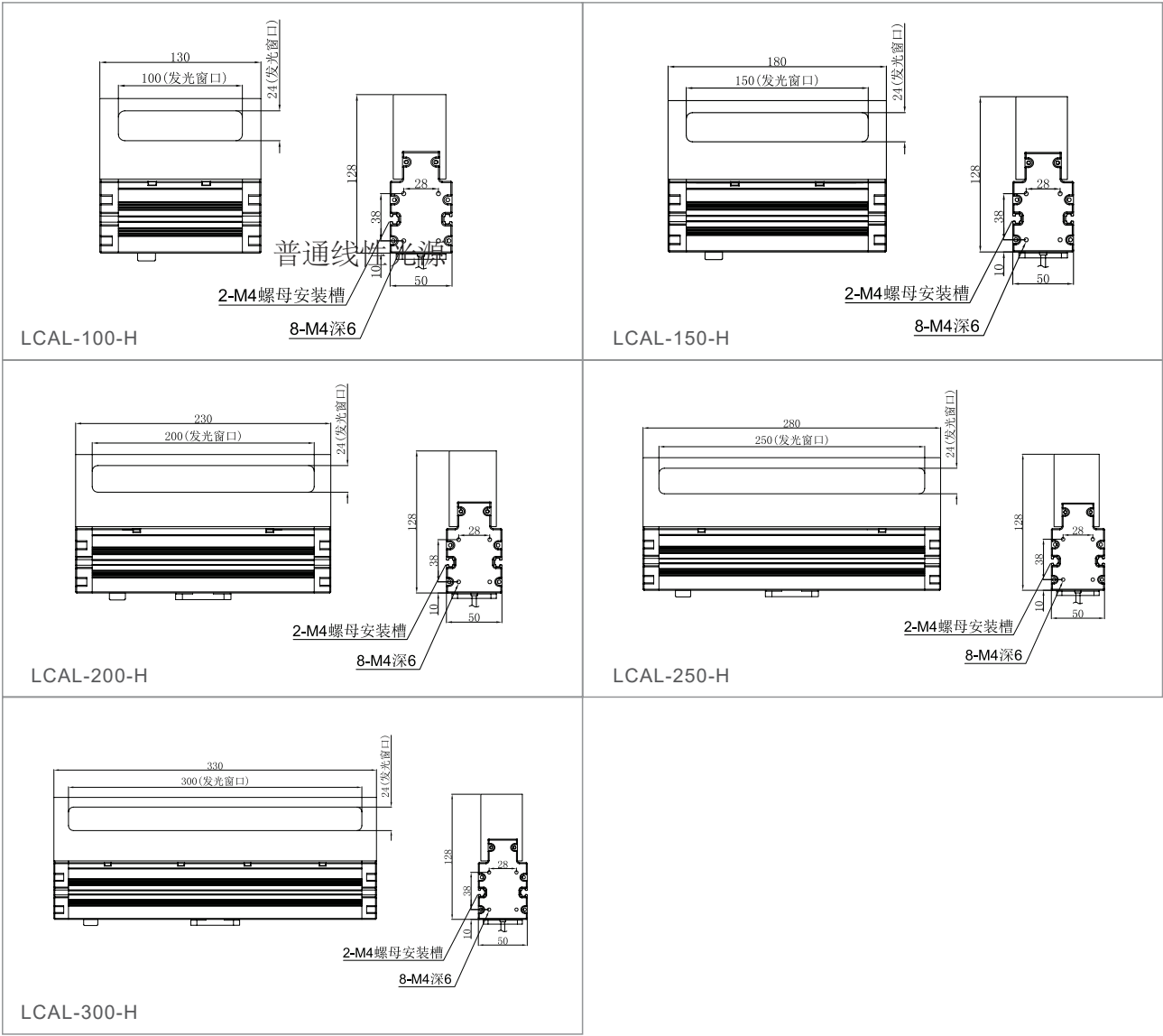
Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm	UV : 365-405nm
Controller	LC-D GARDASOFT LCC-D					
Optional Accessories	Extension Cable : 1m, 3m, 5m					
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%					

DATASHEET

Series	Model	Optics			Electric		Size	Weight (g)
		Color	Working distance (mm)	light emitting L x W (mm)	(W)*		L x W x H (mm)	
LCAL	LCAL-100-H		130-140	100x20	25	33	130x50x129.8	1200
	LCAL-150-H		130-140	150x20	37.5	45	180x50x129.8	1800
	LCAL-200-H		130-140	200x20	50	67	230x50x129.8	2400
	LCAL-250-H		130-140	250x20	62.5	83	280x50x129.8	3000
	LCAL-300-H		130-140	300x20	75	100	330x50x129.8	3600

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DRAWING



LINEAR LIGHT SOURCE

MSL SERIES



High uniformity
24v/48v DC input
Suitable for long working distance

MSL	—	100	—	H	—	R/G/B/W/IR/UV	—	12/24(V)
Series		Luminous length		Brightness		Color		Voltage

Wavelength	R : 620-625nm	G : 520-525nm	B : 470-475nm	W : 5800-7000K	IR : 850-940nm	UV : 365-405nm
Environment	Temperature : 0 - 40 degree, Humidity : 20 - 85%					

DATASHEET

Series	Model	Optics		Electric		Size	Weight (g)
		Color	light emitting L x W (mm)	Voltage (V)	(W)*	L x W x H (mm)	
MSL	MSL-100-H	●○●●	100x20	24	29.4	130x50x82	1200
	MSL-200-H	●○●●	200x20	24	54.6	230x50x82	1600
	MSL-300-H	●○●●	300x20	24	75.6	330x50x82	2000
	MSL-400-H	●○●●	400x20	24	96.6	430x50x82	2400
	MSL-500-H	●○●●	500x20	24	117.6	530x50x82	2800
	MSL-600-H	●○●●	600x20	24	138.6	630x50x82	3200
	MSL-700-H	●○●●	700x20	24	155.4	730x50x82	3600
	MSL-800-H	●○●●	800x20	24	172.2	830x50x82	4000
	MSL-900-H	●○●●	900x20	24	189.0	930x50x82	4400
	MSL-1000-H	●○●●	1000x20	24	205.8	1030x50x82	4800
	MSL-1100-H	●○●●	1100x20	24	222.6	1130x50x82	5200
	MSL-1200-H	●○●●	1200x20	24	239.4	1230x50x82	5600
	MSL-1300-H	●○●●	1300x20	24	256.2	1330x50x82	6000
	MSL-1400-H	●○●●	1400x20	24	273.0	1430x50x82	6400
	MSL-1500-H	●○●●	1500x20	24	289.8	1530x50x82	6800

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COMPARISON

