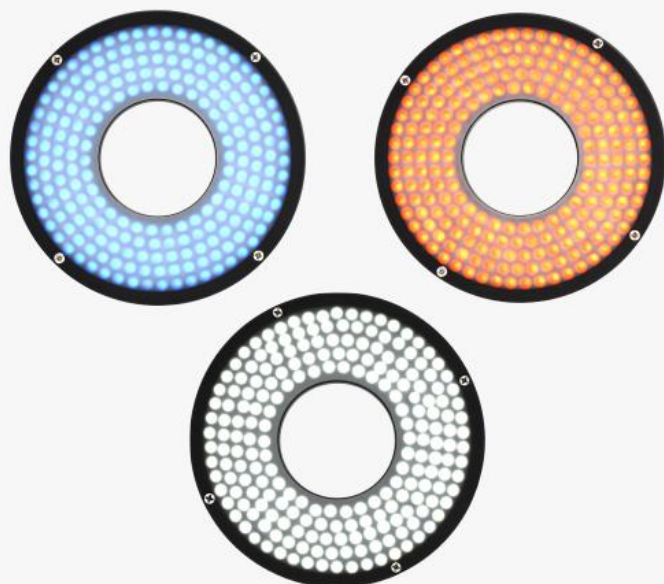


Ring Light Series–Ring light



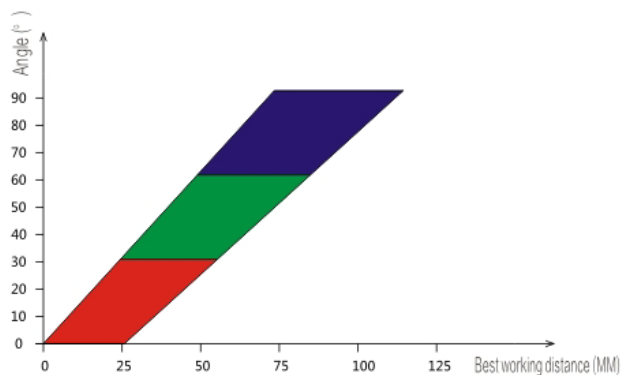
Product Features

- ◆ High density LED arrangement, scientific structural design;
- ◆ Illuminate from 360 ° direction to eliminate shadows;
- ◆ Open a middle hole to perfectly match the light source with the camera lens;
- ◆ Multiple angles to choose from, suitable for applications with different working distances;
- ◆ Optional diffuser plate to evenly distribute light.

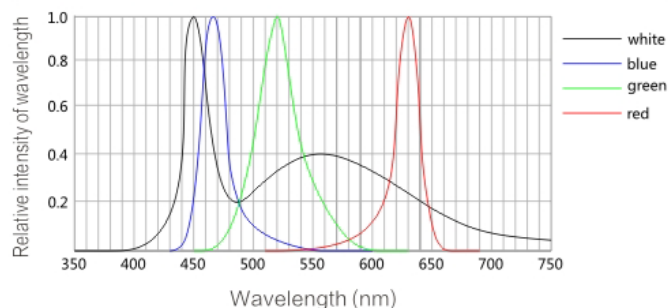
Application scope

- ◆ Character and silk screen recognition;
- ◆ Barcode and QR code reading;
- ◆ Product edge detection;
- ◆ Product size measurement;
- ◆ Product damage and defect detection;
- ◆ Identification of foreign objects on wafers;
- ◆ Detection of foreign objects mixed into liquids, etc.

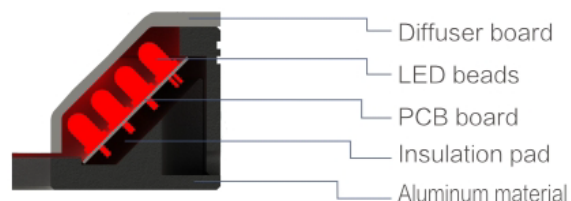
Example diagram of circular light source angle and optimal working distance



Spectral diagram



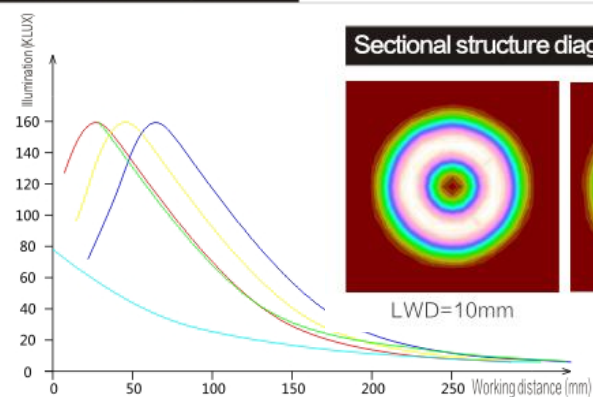
Sectional structure diagram



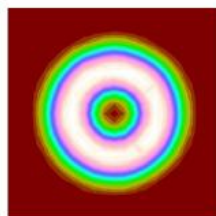
Note: This image is only for illustration purposes and may not be identical to the actual product



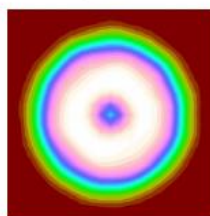
Illumination map



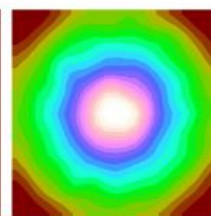
Sectional structure diagram



LWD=10mm



LWD=50mm



LWD=100mm

Application case of circular light source [low angle]



Analyte



Lighting diagram

Test item: Coin character detection

Content	Coin character detection
Tested item	Coin
Difficulties in the plan	Serious character background interference
Application	
Light sourceresult	Clear and visible contours and characters



Imaging rendering



Software processing rendering

Application Case of Circular Light Source [Medium Angle]



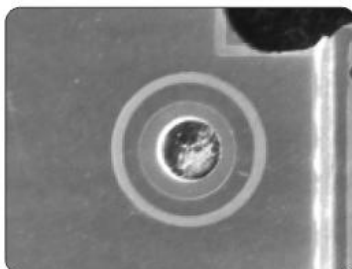
Analyte



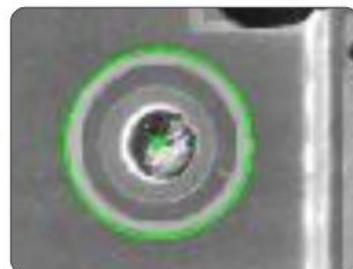
Lighting diagram

Testing item: PCB board positioning testing

Content	PCB board positioning detection
Tested item	PCB board
Difficulties in the plan	Large background interference
Application	
Light sourceresult	Clear imaging and accurate positioning of the hole position

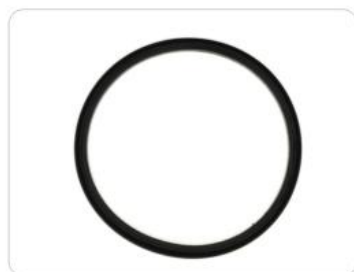


Imaging rendering



Software processing rendering

Application case of circular light source [high angle]



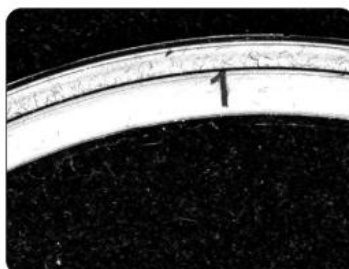
Analyte

Test item: Rubber circle character detection

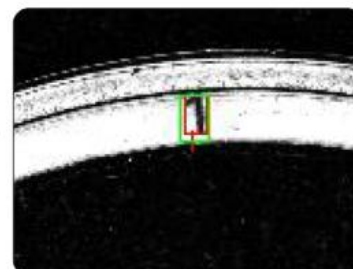
Content	Rubber circle character detection
Tested item	Rubber ring
Difficulties in the plan	Large background interference
Application	
Light sourceresult	Clear character imaging and accurate character recognition



Lighting diagram



Imaging rendering



Software processing rendering

Wavelength/ Color Temperature	Red (R)	620-630nm	Green (G)	520-530nm
	Blue (B)	460-470nm	White (W)	6500 ± 500K
	Infrared (IR)	850/940nm	Ultraviolet (UV)	365-405nm
Save environment	humidity	-20-60℃	humidity	20-80% (non condensing)
Usage environment		0-40℃		
Select accessories	Light source extension cable, diffuser plate			
Service life/warranty	When the ambient temperature is 25 ℃, the brightness of the light source will decrease by less than 30% after 10000 hours of use (excluding ultraviolet)			
	When the ambient temperature is 25 ℃, the 100% brightness of the ultraviolet light source will decay by less than 30% after 1000 hours of use			
	Within one year of shipment, if there is a malfunction due to non-human factors, free repair or replacement services will be provided			

Serial number	Model	Voltage	Power			Weight (g)
			R	G/B/W	IR	
30+	AIRON-RING-30-45	24	1	1.4	1.4	40
	AIRON-RING-34-75	24	1	1.8	1.4	40
	AIRON-RING-30-90	24	1	1	1	30
40+	AIRON-RING-40-30	24	0.7	0.7	0.7	40
	AIRON-RING-40-45	24	0.7	0.7	0.7	40
	AIRON-RING-42-65	24	1.4	1.4	1.4	40
	AIRON-RING-40-90	24	0.7	1	1.4	40
50+	AIRON-RING-50-20	24	1.4	2.1	2.1	50
	AIRON-RING-50-30	24	1.4	2.1	2.1	50
	AIRON-RING-50-45	24	1.4	2.1	2.1	50
	AIRON-RING-52-60	24	2.1	3.2	2.8	70
	AIRON-RING-55-80	24	1.8	2.8	2.1	70
	AIRON-RING-53-90	24	2.8	2.8	2.8	70
60+	AIRON-RING-60-00	24	1	1.4	1.4	40
	AIRON-RING-60-20	24	1.8	2.5	2.1	90
	AIRON-RING-60-30	24	2.1	3.2	2.8	100
	AIRON-RING-60-45	24	1.8	2.8	2.8	100
	AIRON-RING-66-60	24	3.6	6	5	130
	AIRON-RING-60-70	24	1.8	2.8	2.8	100
	AIRON-RING-60-80	24	1.8	2.8	2.8	100
	AIRON-RING-60-90	24	2.8	2.8	2.8	110

70+	AIRON-RING-74-00	24	1	1.8	2.1	120
	AIRON-RING-74-20	24	2.5	3.6	3.6	120
	AIRON-RING-74-30	24	2.8	4.3	3.6	120
	AIRON-RING-74-45	24	2.5	3.6	3.6	120
	AIRON-RING-74-60	24	4.3	6.4	5	120
	AIRON-RING-74-70	24	4	5.4	5	140
	AIRON-RING-74-80	24	2.5	3.6	3	120
	AIRON-RING-70-90	24	5.4	5.4	5.4	140
	AIRON-RING-74-90	24	5.4	5.4	5.4	150
80+	AIRON-RING-80-00	24	1	1.8	2.1	60
	AIRON-RING-80-20	24	2.5	4	4.3	140
	AIRON-RING-80-30	24	2.5	4	4.3	140
	AIRON-RING-80-45	24	2.5	4	3.6	140
	AIRON-RING-80-60	24	3.6	5.7	5.7	170
	AIRON-RING-80-70	24	3.6	5.7	5.7	170
	AIRON-RING-80-80	24	3.6	5.7	5.7	170
	AIRON-RING-80-90	24	7.2	7.2	7.2	180
90+	AIRON-RING-96-00	24	2.1	3.2	2.8	100
	AIRON-RING-90-20	24	3.6	5	5	160
	AIRON-RING-90-30	24	5.7	8.6	7.2	200
	AIRON-RING-90-45	24	6.4	10.8	8.6	250
	AIRON-RING-90-60	24	5.7	10.8	7.2	200
	AIRON-RING-90-70	24	6.4	8.6	8.6	250
	AIRON-RING-90-80	24	6.4	10.8	8.6	250
	AIRON-RING-90-90	24	9	9	9	250
	AIRON-RING-95-90	24	5.4	9	5.4	250
100+	AIRON-RING-100-00	24	2.1	3.2	2.8	100
	AIRON-RING-100-20	24	3.6	5.4	5	200
	AIRON-RING-100-30	24	3.6	5.4	5	250
	AIRON-RING-100-45	24	5	8.6	8.6	250
	AIRON-RING-100-60	24	5	8.6	8.6	200
	AIRON-RING-100-70	24	5	8.6	8.6	250
	AIRON-RING-100-80	24	5	8.6	8.6	250
	AIRON-RING-100-90	24	10	10	10	320
120+	AIRON-RING-120-00	24	2.1	3.2	2.8	140
	AIRON-RING-120-20	24	7.5	10	10	260
	AIRON-RING-120-30	24	7.5	12.6	10	260
	AIRON-RING-120-45	24	9.3	13.3	12.2	300
	AIRON-RING-120-50	24	9.3	15.4	13	300
	AIRON-RING-120-60	24	9.3	13.3	12.2	300
	AIRON-RING-120-70	24	9.3	13.3	12.2	300
	AIRON-RING-120-80	24	9.3	13.3	12.2	300
	AIRON-RING-120-90	24	12	12	12	260
130+	AIRON-RING-132-20	24	8.6	12.9	10	280
140+	AIRON-RING-146-00	24	2.8	4.3	2.8	200
150+	AIRON-RING-150-00	24	2.8	4.3	2.8	220
	AIRON-RING-150-20	24	9	13	13	330
	AIRON-RING-150-30	24	9	13	13	330
	AIRON-RING-150-45	24	9	13	13	330
	AIRON-RING-150-60	24	9	15	13	330
	AIRON-RING-150-70	24	12.2	17.2	17.2	400

	AIRON-RING-150-80	24	12.2	17.2	17.2	400
	AIRON-RING-150-90	24	16	16	16	450
170+	AIRON-RING-170-20	24	11.5	17.2	13.7	380
	AIRON-RING-172-00	24	4.3	5.7	5	230
180+	AIRON-RING-180-00	24	4.3	5.7	5	250
	AIRON-RING-180-20	24	9.7	13.7	13.7	470
	AIRON-RING-180-30	24	21.6	32.4	25.9	660
	AIRON-RING-180-45	24	14	20	18.7	550
	AIRON-RING-180-60	24	15.8	23.7	18.7	550
	AIRON-RING-180-70	24	14	20	18.7	550
	AIRON-RING-180-80	24	14	20	18.7	550
	AIRON-RING-180-90	24	18	18	18	620
200+	AIRON-RING-200-00	24	4	5.7	5.7	320
	AIRON-RING-200-20	24	17.2	24.8	23	600
	AIRON-RING-200-30	24	17.2	24.8	23	600
	AIRON-RING-200-45	24	17.2	24.8	23	600
	AIRON-RING-208-60	24	17.2	21.6	17.2	530
	AIRON-RING-200-70	24	17.2	24.8	23	600
	AIRON-RING-200-80	24	17.2	24.8	23	600
	AIRON-RING-200-90	24	22	22	22	670
210+	AIRON-RING-213-00	24	4.3	7.2	5.7	340
250+	AIRON-RING-250-00	24	5	7.2	7.2	400
	AIRON-RING-250-20	24	21.6	31	28.8	750
	AIRON-RING-250-30	24	21.6	31	28.8	750
	AIRON-RING-250-45	24	21.6	31	28.8	750
	AIRON-RING-250-60	24	21.6	31	28.8	750
	AIRON-RING-250-70	24	21.6	31	28.8	750
	AIRON-RING-250-80	24	21.6	31	28.8	750
	AIRON-RING-250-90	24	28	28	28	850

