

Low Angle Ring Light

NV-DR Low angle series



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Low angle ring lights are combined with highlight and high-density LED array, irradiate to center from any angle at lower working distance with multi dimensions.



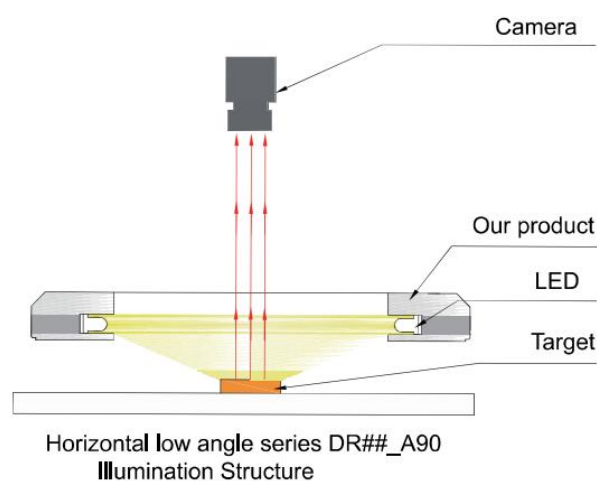
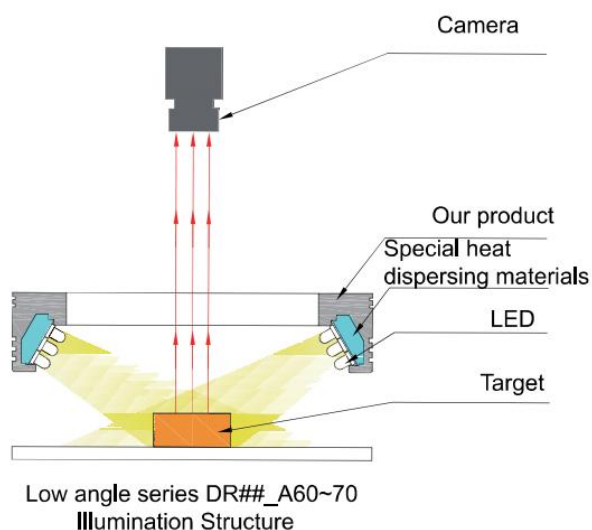
Features

- ◇ High density LED array, high brightness
- ◇ Various beam angle can be customized
- ◇ Diffuse board is optional, increase the uniformity of lights
- ◇ Use wave-soldering technology, improved the quality of products, easy installation

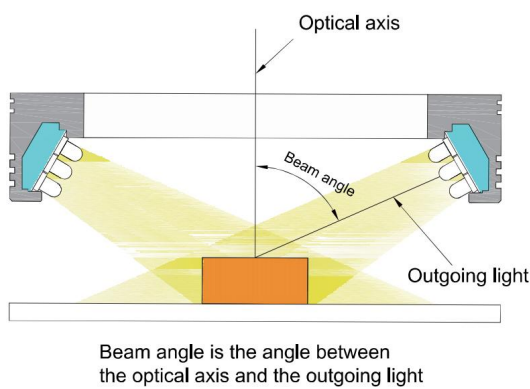
Application Areas

- ◇ Inspection PCB(printed circuit board)
- ◇ Inspection of lables
- ◇ Inspection package defects
- ◇ Inspection of general appearance
- ◇ Inspection of IC elements characters and appearance
- ◇ Inspection of surface scratches, marks, breakage, margin, etc

Illumination Structure



Angle Diagram



Selection Guide

NV	DR	##	A##	R/G/B/W
New vision	Ring Light	Outside Diameter	Illumination Angle	Color

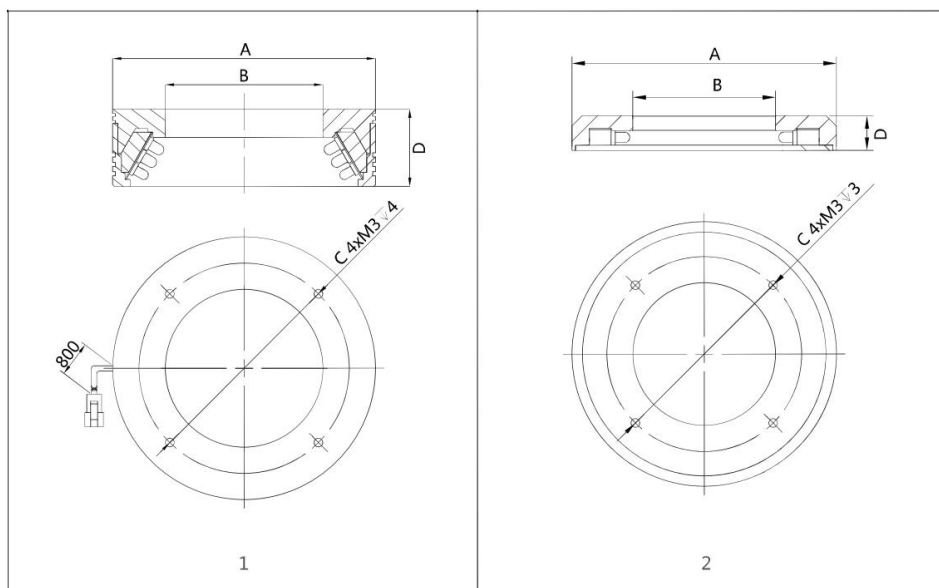
Technical Index

Color (Wavelength)	Red:620-630nm	Green:525-530nm	Blue:465-470nm
Operating environment	White color temperature 6600-7000K	UV:365-395nm	IR:850/940nm
Life time	Temperature:0 to 50℃,Humidity:20% to 85% RH		
Compatible Controller	100,000hrs theoretical service time(Depends on the operating environment,not a guarantee.)		
Optional Accessory	1.Lights source and lens adaptor.		
	2.Diffusion plate,Polarizing plate. (Opational transmittance:60%,70%,80%,90%)		
	3.Extension cable:1m/2m/5m/10m/15m(2 kinds of materials of the shell of wire:PVC of hardness; silicone of softness.)		
Warranty	One year warranty,Free samples and technical support(buyers pay for the freight)		
Lights customization	Provide design and development service according to individual needs of customers.To reach the best image effects.		

Light parameters(voltage is 24V or 48V)

Angle	Model	Color (R/G/B/W)	Power(W)		Dimentions					Picture Number
			Output 	Output 	O.D. (mm) A	I.D. (mm) B	Mounting hole C	Thickness D	Quantit y of row	
60-75°	NV-DR50-A60-		1.1W	1.8W	50	20	40	23	2	1
	NV-DR60-A60-		1.6W	2.5W	60	30	50	23	3	
	NV-DR75-A60-		2.3W	3.6W	75	40	60	22	3	
	NV-DR90-A60-		3.9W	5.9W	90	54	75	23	3	
	NV-DR100-A60-		4.4W	6.4W	100	63	84	23	3	
	NV-DR120-A60-		5.1W	10.1W	120	87	100	30	3	
	NV-DR160-A75-		7W	12.3W	161	124	145	22	3	
	NV-DR150-A75-		6.8W	11.1W	150	112	140	26	4	
	NV-DR180-A75-		7.3W	12.8W	180	142	160	26	4	
	NV-DR200-A60-		11.5W	18.6W	200	160	180	26	4	
	NV-DR240-A60-		13.6W	21.4W	240	200	220	26	4	
Horizontal 90°	NV-DR320-A75-		16.3W	26.3W	320	278	304	34	4	2
	NV-DR40-A90-		0.45W	0.7W	40	12	25	10.5	1	
	NV-DR75-A90-		0.6W	1.8W	76	41	56	10.5	1	
	NV-DR96-A90-		0.8W	2W	96	61	80	10.5	1	
	NV-DR126-A90-		1.6W	2.4W	126	91	110	10.5	1	
	NV-DR150-A90-		2.5W	2.9W	151	116	130	10.5	1	
	NV-DR170-A90-		2.6W	3.4W	172	130	164	10.5	1	
	NV-DR208-A90-		2.7W	3.8W	208	173	190	10.5	1	
	NV-DR208-A90LS5-		3.0W	4.2W	208	165	190	11.5	1	

Installation diagram



Applications

◇ Inspect the defects on the surface of auto parts

◇ Model: NV-DR150-A75

◇ Use low angle ring light to illuminate the surface of auto parts, the flat surface will appear quite bright, on the contrary, the scratches and defects areas will appear dark, so we can tell the flaws easily.



◇ Inspect the defects of auto parts

◇ Model: NV-DR206-A90-W

◇ Use horizontal low angle ring light to illuminate the surface of auto parts can make those six salient appear quite bright, but the background will appear dark, so we can tell the defects easily.



◇ Inspect the defects of nuts

◇ Model: NV-DR75-A90-R

◇ Use horizontal low angle ring light to illuminate nuts, the edge will appear bright, but the defects area will appear dark for the reflected light can not get into lens, and the background appears dark grey, so the defects area can be seen clearly.

