

Collimated coaxial light

NV-PFV series



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The parallel coaxial light source is designed by combining high-power LED particles with a concentrator and an optical lens, which is parallel to the direction of the camera optical axis and irradiates uniformly. It can effectively overcome the reflection of product surface and extract more subtle details of product surface information.



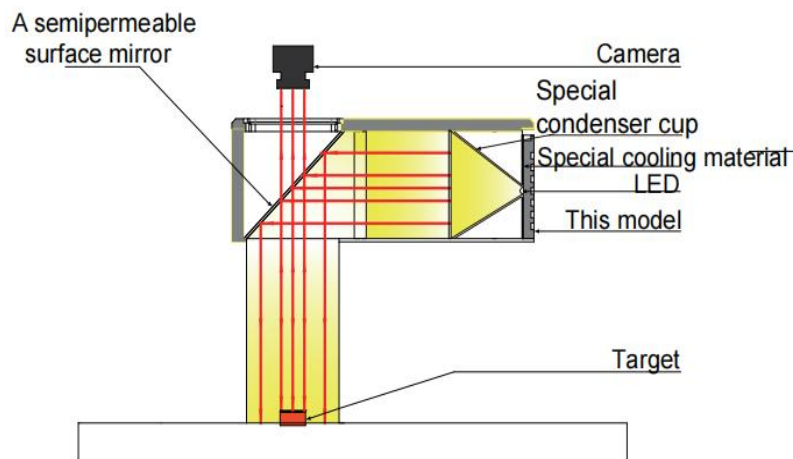
Features

- ◇ Focus lens and advanced semi-lens, reduce the loss of light in the process of reflection
- ◇ Optical plastic film is optional to suppress diffused light in a specific direction in case of field conditions
- ◇ Reflow welding process, side and front can be installed more convenient
- ◇ Parallel and uniform irradiation, no double image

Application Areas

- ◇ Inspect the label position, QR code, Mark point
- ◇ Inspect the outline, and distance
- ◇ Inspect the chip characters and the height of connector terminal
- ◇ Inspect the damage of the out edge
- ◇ Inspect the surface of reflective objects

Illumination constructure



Selection Guide

NV	PFV	**	R/G/B/W/IR
New vision	Collimated coaxial light	Emitting area Width=Length	Color

Technical Index

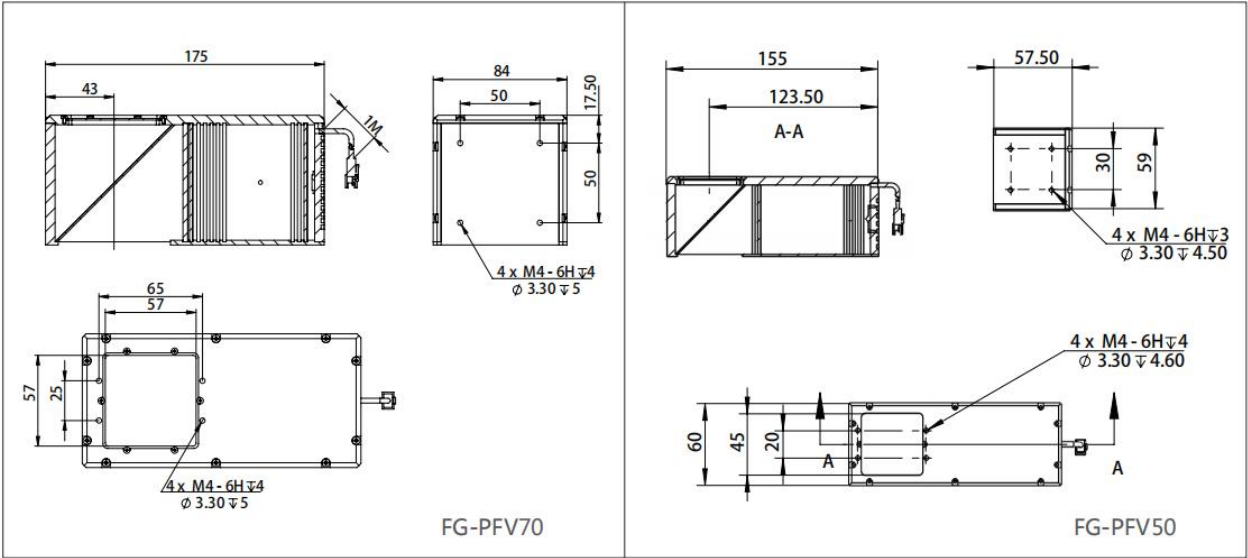
Color (Wavelength)	Red:620-630nm	Green:525-530nm	Blue:465-470nm
	White color temperature 6600-7000K	UV:365-395nm	IR:850/940nm
Operating environment	Temperature:0 to 50°C,Humidity:20% to 85% RH		
Life time	100,000hrs theoretical service time(Depends on the operating environment, not a guarantee.)		
Compatible Controller	Analog Controller, Digital Controller, Constant Current Controller		
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)

Mold	Model	Color (R/G/B/W)	Power(W)		Dimentions								
			Output 	Output 	A	B	C	D	E	F	G	H	Pic. No.
	NV-PFV20		5W	5W	-	-	-	-	-	-	-	-	-
	NV-PFV30		5W	5W	-	-	-	-	-	-	-	-	-
	NV-PFV50		8W	8W	-	-	-	-	-	-	-	-	-
	NV-PFV70		8W	8W	-	-	-	-	-	-	-	-	-
	NV-PFV100		12W	12W									
	NV-PFV130		12W	12W									
	NV-PFV150		12W	12W									

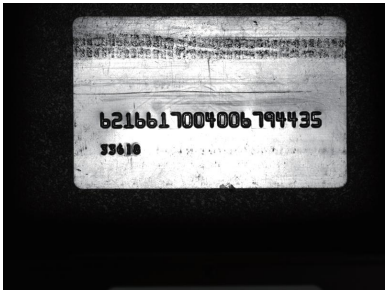
Note:The principle of side-view collimated coaxial light is similar to the principle of this coaxial,only need to add an“A”after theeluminous area,eg.NV-PFV**A-#

Installation diagram



Applications

- ◇ Inspect the card surface and characters
- ◇ Model: NV-PFV150-W
- ◇ Because the bank card has different colors, it is difficult to realize the defect or character recognition. The effect can be well achieved by using a parallel coaxial light source and a special lens



- ◇ Screw internal plug and size detection
- ◇ Model: NV-PFV50-W/B
- ◇ Because the interior of fastener is amplitude, bottom is flat, need to compare parallel illuminant to put bottom illuminate amount, brim part still is black, parallel illuminant just can realize this requirement, thereby very good implementation effect.

