

Collimated Back light

NV-THP series



Collimated Back light NV-THP series

Collimated back light adopted special optical transmission material to improve the light path, and the high density LED patch array improved the uniformity of light efficiently. It makes the design of more dimensions of lights more conveniently, especially fit those occasions that require better effect of better parallelity and more clear outline.



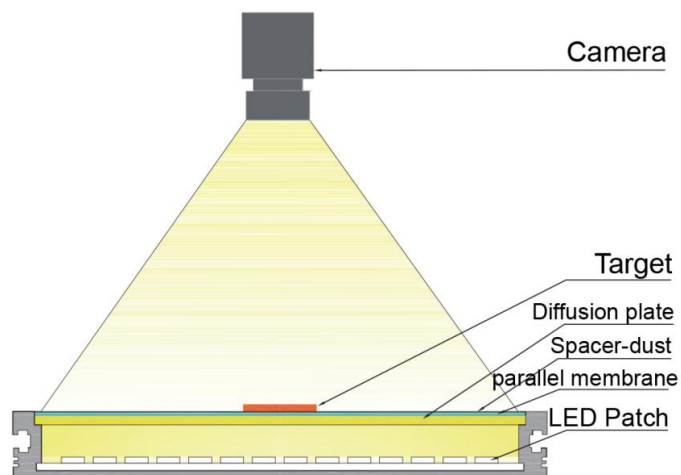
Features

- ◇ Available to be combined to multi sizes of emitting area
- ◇ Adopted reflow soldering technology, easier installation from lateral
- ◇ Faster in developing new dimensions, high uniformity, high cost-effective
- ◇ Adopted special optical transmission material, better parallelity and higher uniformity.

Application Areas

- ◇ Inspect the height of liquid level and liquid impurities
- ◇ Inspect the outline of round products and the distance between target products
- ◇ Inspect the fuse wire, the height and flatness of connector terminal
- ◇ Inspect the breakage of outside edge
- ◇ Inspect if there's any error of outlook dimensions under uniformity illumination

Illumination constructure



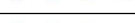
Selection Guide

NV	THP-	**	**	R/G/B/W
New vision	Collimated Back Light	Length of emitting area	Width of emitting area	Color

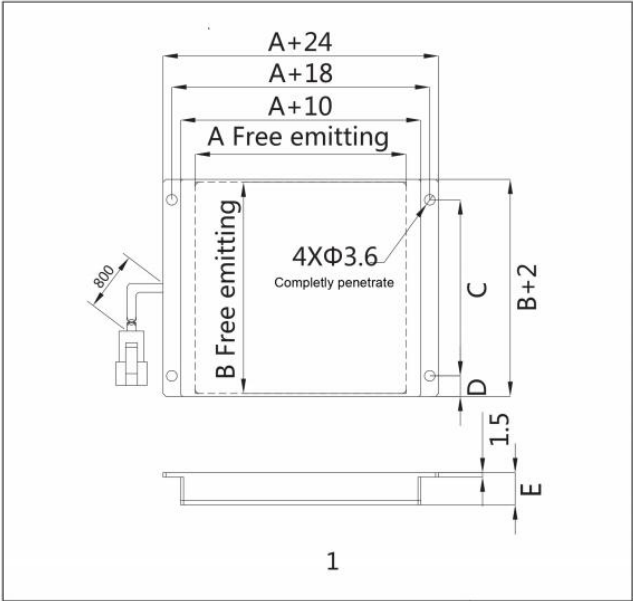
Technical Index

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℃,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. (Opotional 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)

Mold	Model	Color (R/G/B/W)	Power(W)		Dimentions					Picture Number of Installation
			Output 	Output 	A	B	C	D	E	
Collimated Back Light	NV-THP4040		2W	2.4W	40	40	30	6	15.5	1
	NV-THP5050		2.1W	2.7W	50	50	36	6	15.5	
	NV-THP6060		2.88W	4.4W	60	60	30	16	13.5	
	NV-THP9060		4.32W	6.6W	90	60	68	10	15.5	
	NV-THP7070		4W	5.1W	70	70	52	10	15.5	
	NV-THP8080		8W	9.6W	80	80	58	12	15.5	
	NV-THP9090		5.04W	7.7W	90	90	60	16	12.5	
	NV-THP100100		8.4W	10.8W	100	100	100	16	22	
	NV-THP150150		18.4W	24.3W	150	150	128	16	15.5	2
	NV-THP180180		26.3W	36.4W	180	180	140	26	20	
	NV-THP250250		52.5W	67.5W	250	250	210	26	20	
	NV-THP300300		75.6W	97.2W	300	300	260	26	23	
	NV-THP500400		168W	234.9W	500	400	460	26	23	
Mold of this series was designed in form, these parameters are just for your reference; the installation diagram after 250250 please contact us for latest design.										

Installation diagram



Applications

- ◇ Inspect the outline of metal particles

Model:NV-TH9090-B

Add special optical film, make the light irradiate approximate parallelly, to make the outline more clear.



- ◇ Inspect the medical injection needle tip

Model:NV-THP5050-R

Add special optical film, make the light irradiate approximate parallelly, utilize the penetrability of red light to penetrate the plastic shell, to make the contour line more clear.



- ◇ Inspect the outer contour of automobile bearing

Model:NV-THP300300-R

Illuminating uniformly, similarly as collimated light, to make the outline more clear.

