

INDUSTRIAL MACHINE VISION LIGHTS

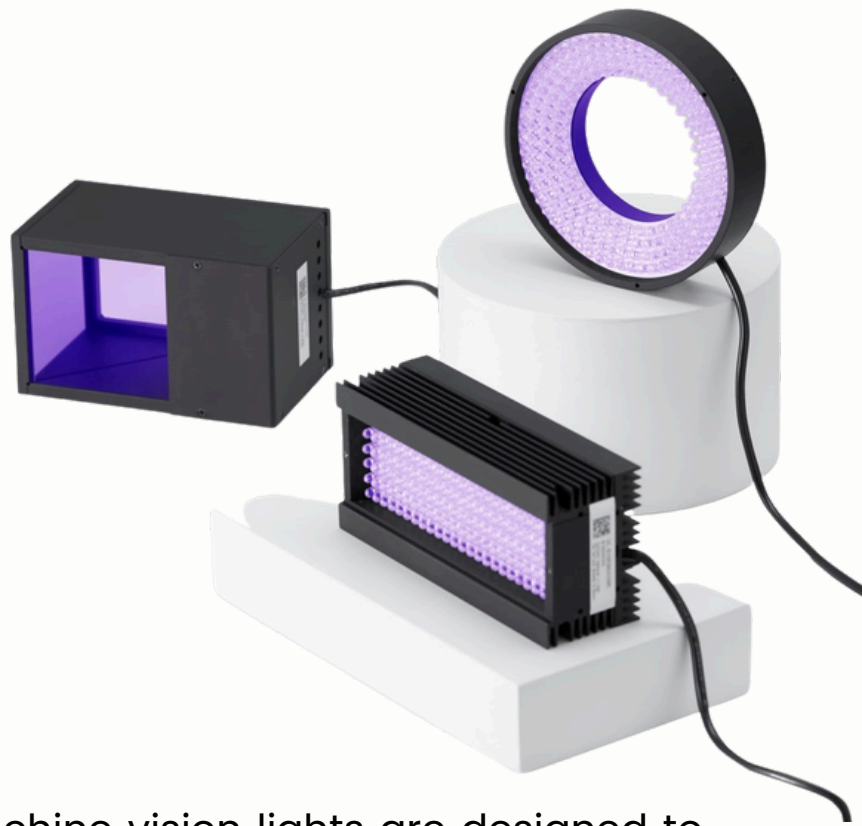


Call Us
+91 9528609462



Visit Our Website
www.perfecto.co.in

"Illuminate the Path to Precision: Unleash the Power of Industrial Machine Vision Lights"



Our cutting-edge industrial machine vision lights are designed to illuminate the smallest details, ensuring flawless results and maximum efficiency.

With our extensive range of specialized lights, including line scan, ring, and high-intensity options, you can:

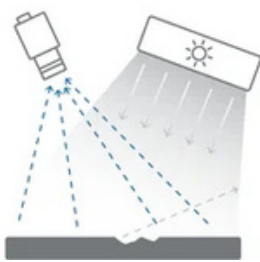
- Enhance image quality and accuracy
- Boost production speed and reliability
- Reduce errors and defects
- Improve overall product quality

PANEL LIGHTS



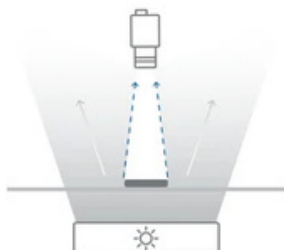
This category of illumination includes very homogenous area lights, which are commonly used for backlighting but are not limited to it. Backlights or Panel Lights produce high black-on-white contrast (silhouettes), even on reflecting surfaces. They can also be utilized to work closely with samples by providing highly diffuse direct LED illumination. PERFECTO flat lights are available in a variety of sizes and provide good brightness to ensure high contrast.

BRIGHT FIELD ILLUMINATION



By using a panel light as incident light, direct illumination causes reflections on the surface of the object being examined.

LOW ANGLE



Using panel lights at a flat angle enables a contrast to be created at the edges, which allows slight illumination of the surface.

When and how to use Panel Lights

Panel lights are best used when inspecting large or flat surfaces that require uniform and shadow-free illumination. They are ideal for applications such as detecting surface defects, measuring dimensions, checking the height and flatness of components, or inspecting transparent or semi-transparent materials like liquids or films. To use them effectively, mount the panel light above or below the object depending on whether top or backlighting is needed. Ensure the light is positioned to evenly cover the inspection area, avoiding glare or shadows. Choose the appropriate light color based on the material—for example, white for general use or red/blue for enhanced contrast. Use diffusers if necessary to soften the light and adjust intensity to match the camera's exposure settings. For precision tasks, synchronize the lighting with the camera trigger to improve image clarity and reduce power consumption.

FEATURES

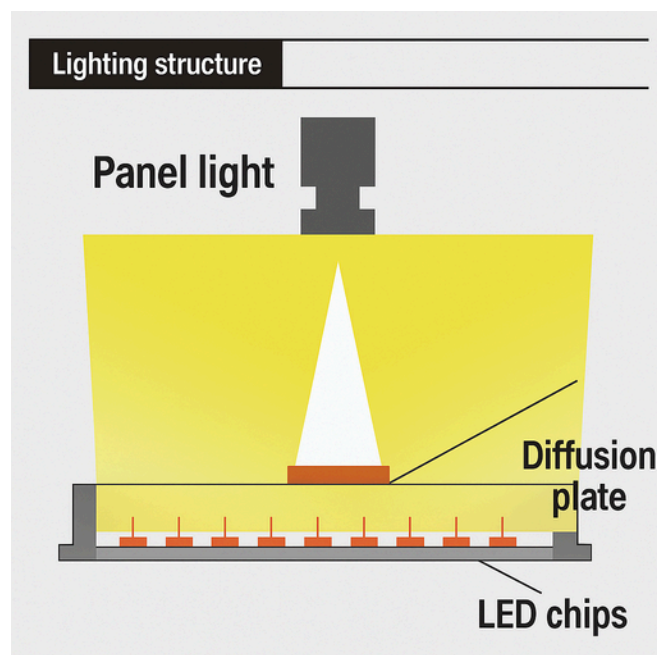
- Can be combined into different sizes of luminous areas
- Diffusion plates with different transmittances can be optionally equipped for on-site conditions.
- Reflow soldering process, the bottom, side and front installation is more convenient for development of new sizes faster, lighter, and larger heat dissipation surface.

APPLICATION

- Liquid level and liquid impurities detection
- Product outline and spacing detection
- Fuse, connector terminal height, flatness detection
- Product outer edge damage detection

PANEL LIGHTS

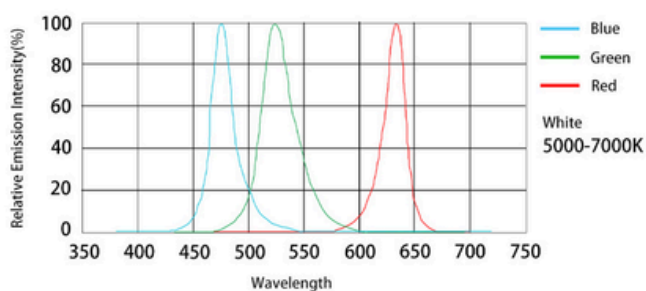
PS-TH Series



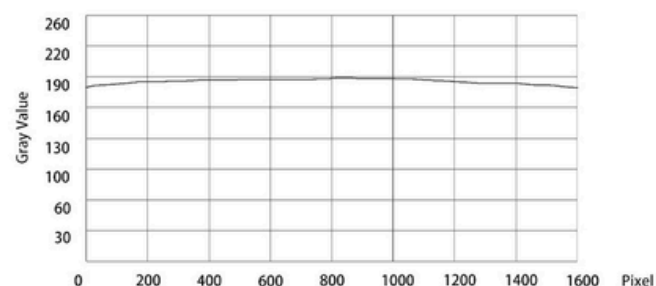
Technical Parameters of Panel Light (PS-TH) Series

Color	Red: 620-630nm	Green: 525-530nm	Blue: 465-470nm
Wave length	White: 6600-7000K	UV: 365-395nm	IR: 850/940nm
Operating environment	Temperature: 0-50°C Humidity: 20-85% non-condensing		
Life time	100,000 hours of theoretical service time(Depends on the operating environment, not a guarantee.)		
Compatible Controller	Analog Controller, Digital Controller, Constant Current Controller		
Optional Accessory	- Lights source and lens adaptor. - Diffusion plate, polarizing plate (Opotional transmittance: 60%, 70%, 80%, 90%) - Extension cable: 1m/2m/5m/10m/15m		
Warranty	One year warranty		
Certificate	CE RoHS		

Spectrum Chart



Uniformity Table



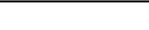
PANEL LIGHTS

PS-TH Series

Model	Color	Power(W)		Dimensions(mm)			
		Output (Green, Blue, White, Ultraviolet)	Output (Red/Infrared)	Glow Length	Luminous Width	Installation Hole	Hole Margin
PS-TH3030		1.7W	1.1W	32	32	20	7
PS-TH4040		1.9W	2.4W	40	30	30	6
PS-TH5050		3.8W	2.9W	50	50	36	8
PS-TH6030		3.4W	2.27W	60	30	30	8.5
PS-TH6060		4W	4.4W	60	60	30	16
PS-TH9060		6.9W	5.2W	90	60	42	10
PS-TH9030		3.5W	3.9W	90	30	20	6
PS-TH8040		3.6W	3.1W	80	40	30	6
PS-TH10050		6.5W	4.5W	100	50	30	15
PS-TH7070		6.2W	6.0W	70	70	52	10
PS-TH8080		7.7W	9.7W	80	80	58	12
PS-TH9090		12.2W	10.4W	90	90	60	16
PS-TH100100		8.6W	10.9W	100	100	100	5
PS-TH120120		21W	18.6W	120	120	90	16
PS-TH130130		19.2W	16.1W	130	130	75	28.5
PS-TH150150		21.6W	20.0W	150	150	128	16
PS-TH180180		15.3W	14.1W	180	180	150	20
PS-TH200100		22.1W	19.4W	200	100	71	19.5
PS-TH200200		22.8W	19W	200	200	171	19.5

PANEL LIGHTS

PS-TH Series

Model	Color	Power(W)		Dimensions(mm)			
		Output (Green, Blue, White, Ultraviolet)	Output (Red/Infrared)	Glow Length	Luminous Width	Installation Hole	Hole Margin
PS-TH250250		33.6W	30.0W	250	250	160	51
PS-TH280280		72W	57.3W	280	280	240	26
PS-TH300300		49.2W	45.6W	300	300	230	41
PS-TH350350		65.1W	58.7W	350	350	250	56
PS-TH400400		70.6W	58.3W	400	400	320	46
PS-TH400300		57.4W	48.1W	400	300	224	44
PS-TH450450		82.7W	64.0W	450	450	300	81
PS-TH500400		94W	79.8W	500	400	300	56
PS-TH600600		184.8W	143.8W	600	600	400	106

MODELS AVAILABLE:

PS-TH12030, PS-TH145145, PS-TH440250, PS-TH360260, PS-TH300120, PS-TH10030, PS-TH12483, PS-TH478268, PS-TH30060, PS-TH340240, PS-TH115115, PS-TH30080, PS-TH15050, PS-TH25050, PS-TH600240, PS-TH150200, PS-TH40050, PS-TH160160, PS-TH6050, PS-TH600480, PS-TH188100, PS-TH85090, PS-TH170100, PS-TH7040, PS-TH600600, PS-TH250150, PS-TH260100, PS-TH400310, PS-TH12040, PS-TH800800, PS-TH250380, PS-TH260200, PS-TH300150, PS-TH15060, PS-TH16045, PS-TH360250, PS-TH4736, PS-TH400250, PS-TH370216, PS-TH250200, PS-TH20050, PS-TH330250, PS-TH420120, PS-TH400100, PS-TH400160, PS-TH25045



CONTACT DETAILS

You can also contact us over email / phone, we will be happy to support you.

Phone No.: +91 9528609462

Email Id: solution@perfecto.co.in
info@perfecto.co.in

Address: 294, Sector 8, IMT Manesar, Gurugram,
Haryana 122050, India



Call Us
+91 9528609462



Visit Our Website
www.perfecto.co.in