

INDUSTRIAL MACHINE VISION LIGHTS

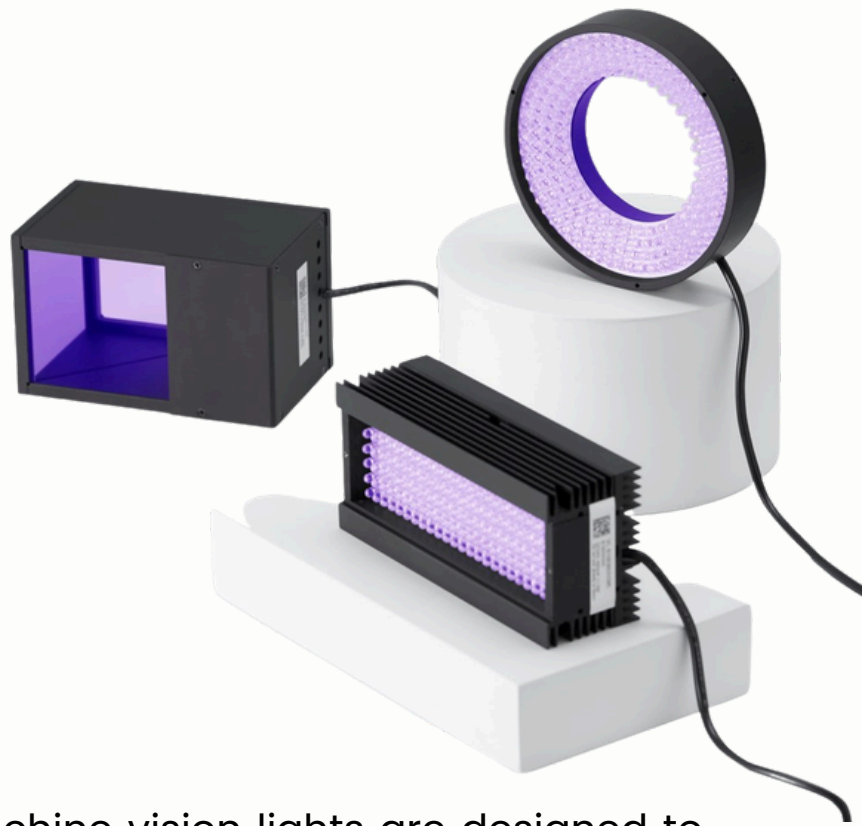


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"Illuminate the Path to Precision: Unleash the Power of Industrial Machine Vision Lights"



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:

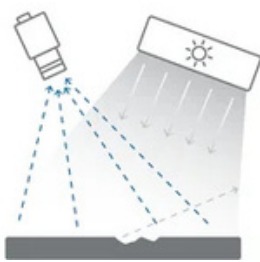
- Enhance image quality and accuracy
- Boost production speed and reliability
- Reduce errors and defects
- Improve overall product quality

PARALLEL SURFACE LIGHTS



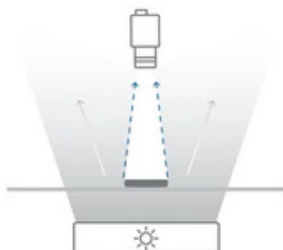
Parallel surface light sources are optimized for optical path design using special light-guide materials. The entire array of high-density patch LEDs effectively improves light uniformity, enabling more stable imaging. This makes them especially suitable for applications requiring better flatness and clearer object contours.

BRIGHT FIELD ILLUMINATION



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

LOW ANGLE



Using parallel 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 Parallel Surface Lights

Parallel surface lights are designed to provide highly uniform and stable illumination for flat or near-flat objects in machine vision applications. By utilizing optimized optical path design and special light-guide materials, they deliver consistent brightness across the entire field of view while minimizing shadows and glare. This makes them ideal for surface defect detection, dimensional measurement, OCR/OCV, and code reading on materials such as PCBs, glass, metal plates, films, and printed labels. Parallel surface lights perform effectively at short working distances and are well suited for applications requiring high flatness, clear object contours, and reliable inspection results.

FEATURES

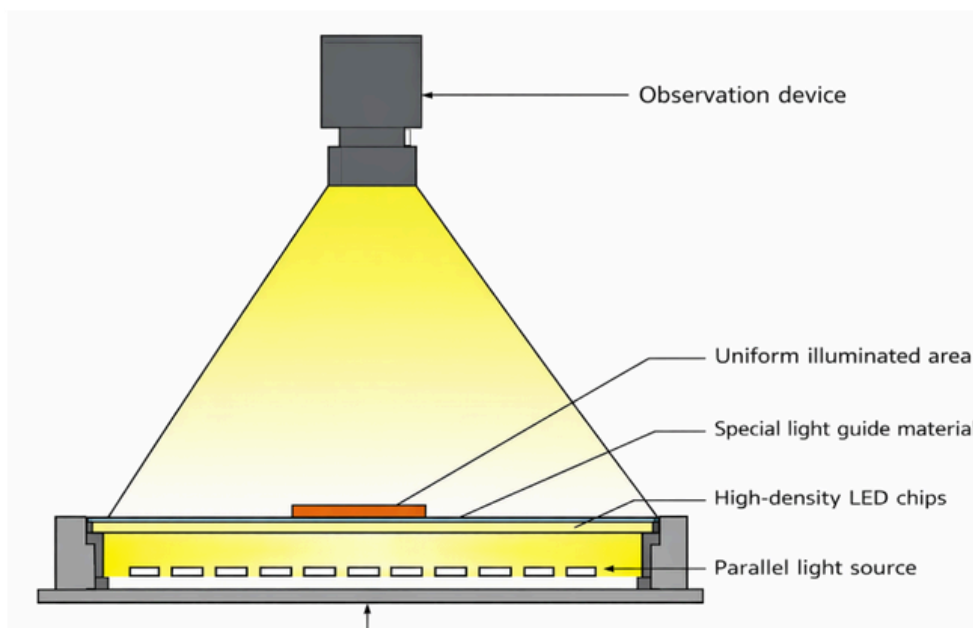
- Can be combined to form different sizes of illuminated areas
- Reflow soldering process; side-mount installation
- New structural design for faster response, excellent uniformity, and high cost performance
- Special light-guide materials optimize optical path design, ensuring better parallelism and uniform illumination.

APPLICATION

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

PARALLEL SURFACE LIGHTS

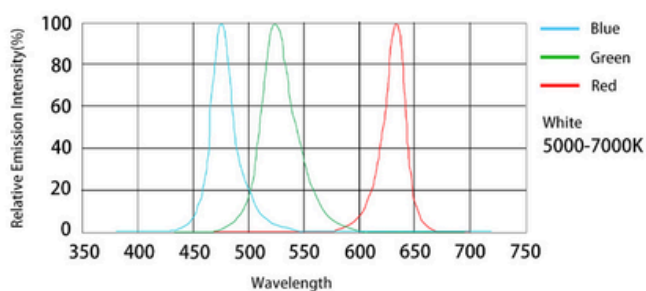
PS-THP Series



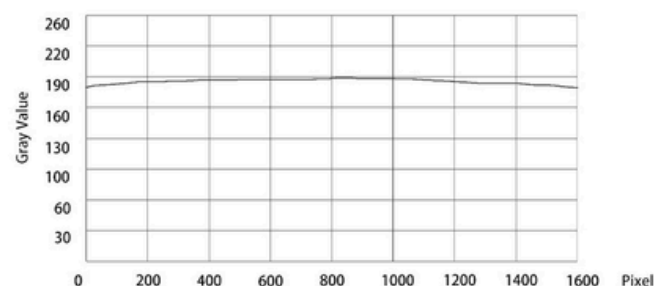
Technical Parameters of Parallel Surface Light (PS-THP) Series

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



PARALLEL SURFACE LIGHTS

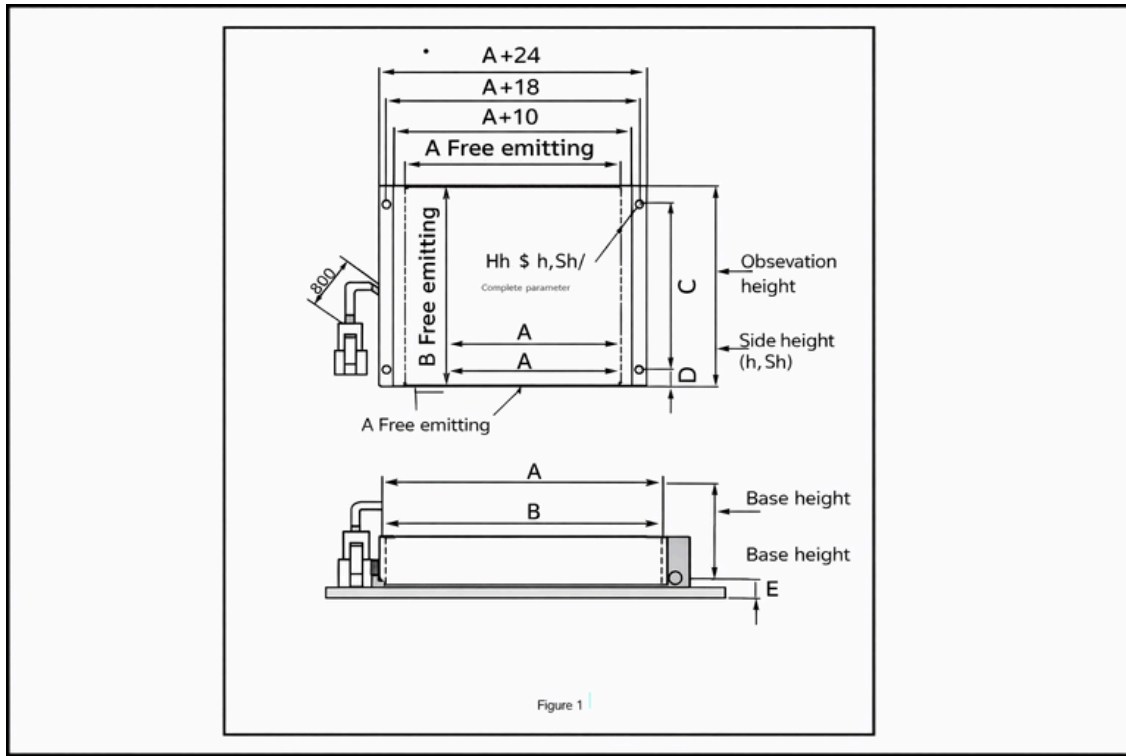
PS-THP Series

Model	Color	Power(W)		Dimensions(mm)			
		Output (Green, Blue, White, Ultraviolet)	Output (Red/Infrared)	Luminous Length (mm)	Luminous Width (mm)	Installation Hole (mm)	Hole Margin (mm)
PS-THP4040		—	2.1 W	40	40	16	7
PS-THP5050		3.4 W	2.1 W	50	50	—	8
PS-THP6060		5.1 W	2.88 W	60	60	16	16
PS-THP9060		6.6 W	4.0 W	90	90	42	10
PS-THP7070		6.6 W	4.0 W	70	70	52	10
PS-THP8080		—	6.1 W	80	80	58	12
PS-THP9090		—	5.04 W	90	90	60	16
PS-THP100100		—	11.4 W	100	100	100	5
PS-THP150150		22.8 W	—	150	150	128	16
PS-THP180180		36.4 W	—	180	180	150	20
PS-THP250250		—	23.8 W	250	250	160	51
PS-THP300300		—	-	300	300	230	41
PS-THP500400		89.6 W	19.8 W	400	400	300	56

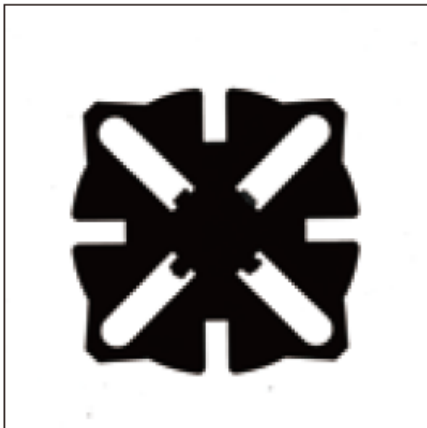
PARALLEL SURFACE LIGHTS

PS-THP Series

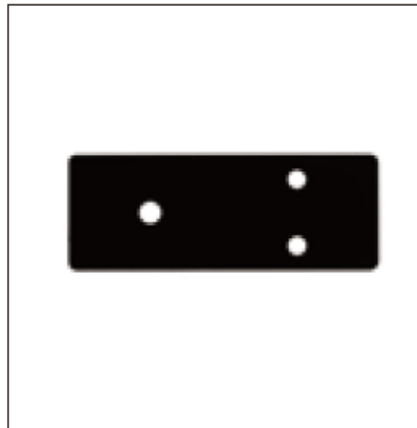
Installation Dimension Drawing



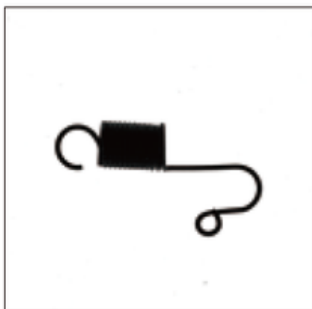
Imaging Cases



Metal Plate Size Detection



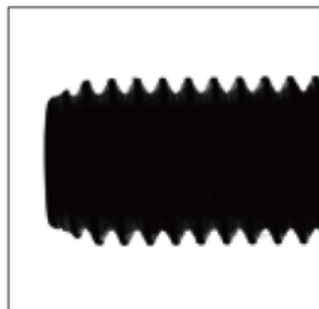
Door Lotus Leaf Positioning



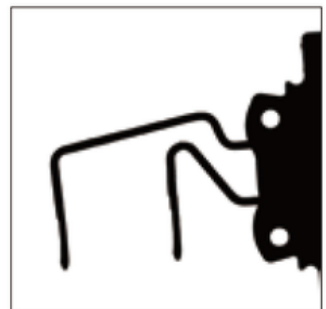
Spring Height Detection



Metal Column Deformation Detection



Thread Spacing Measurement



Wire Bending Angle Detection

CONTACT DETAILS

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