

## NERLITE® 面阵灯



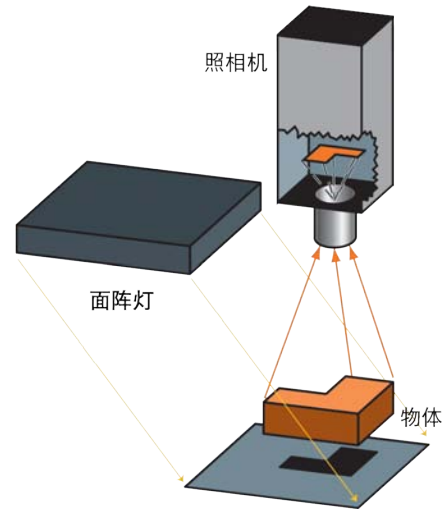
## 经济型 照明解决方案

Microscan 种类繁多的 NERLITE 产品可为所有部件或标记提供照明支持，从而成功实现机器视觉和自动识别应用。

面阵灯的通用型单向设计（可通过安装位置调整）可用于暗场照明（产生阴影和镜面反射），也可用于漫射面的明场照明。与其他入射照明方案一样，微调工作距离和光线照射角度能够以最低的投入实现良好的影像对比度。

### 面阵灯：简介

- 采用经济、通用型设计
- 通过可安置在明场或暗场的光源满足各种应用场合的需求
- 坚固的外壳与使用寿命长达 50,000 小时的 LED 完美结合
- 结合使用多个阵列，能够满足大型视场应用需求



### 照明示例：

物体



结果影像



贴有标签的瓶子：检查有无标签以及标签及其方向是否正确。

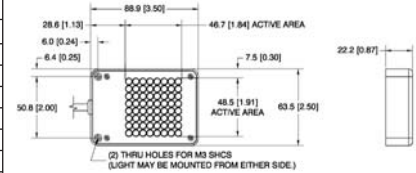
### 应用实例

- 定位或测量外形尺寸
- 为扁平型漫射面提供照明
- 控制成本
- 非漫射入射（正面）照明
- 暗场或明场照明
- 标签位置检测

# NERLITE® AREA ARRAY SPECIFICATIONS AND OPTIONS

## AR 50x50

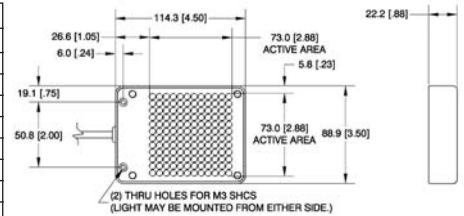
DESCRIPTION	nm/K	CONT. CURRENT	STROBE CURRENT	mcd/cm <sup>2</sup>	mw/cm <sup>2</sup>
AR-50x50, Red Continuous	636 nm	160 mA		2560	
AR-50x50, Red Strobe	636 nm		3.2 A	25600	
AR-50x50, White Continuous	6500 K	204 mA		3430	
AR-50x50, White Strobe	6500 K		2.88 A	48300	
AR-50x50, Blue Continuous	470 nm	204 mA		3420	
AR-50x50, Blue Strobe	470 nm		2.88 A	48200	
AR-50x50, Infrared Continuous	880 nm	100 mA			50
AR-50x50, Infrared Strobe	880 nm		1.59 A		500
AR-50x50, Ultraviolet Continuous	375 nm	176 mA			2.2
AR-50x50, Ultraviolet Strobe	375 nm		5.10 mA		6.2



**Active Area:** 1.9" x 1.8" (49 mm x 47 mm) **Weight:** 14 oz. (397 g)  
**Dimensions:** H 3.5" (88.9 mm) x W 2.5" (63.5 mm) x D 0.87" (22.2 mm)

## AR 75x75

DESCRIPTION	nm/K	CONT. CURRENT	STROBE CURRENT	mcd/cm <sup>2</sup>	mw/cm <sup>2</sup>
AR-75x75, Red Continuous	636 nm	420 mA		3100	
AR-75x75, Red Strobe	636 nm		4.8 A	14600	
AR-75x75, White Continuous	6500 K	369 mA		4220	
AR-75x75, White Strobe	6500 K		9.41 A	53600	
AR-75x75, Blue Continuous	470 nm	369 mA		3650	
AR-75x75, Blue Strobe	470 nm		9.41 A	46300	
AR-75x75, Infrared Continuous	880 nm	240 mA			50
AR-75x75, Infrared Strobe	880 nm		5.04 A		540
AR-75x75, Ultraviolet Continuous	375 nm	250 mA			2.2
AR-75x75, Ultraviolet Strobe	375 nm		1.49 A		6.5



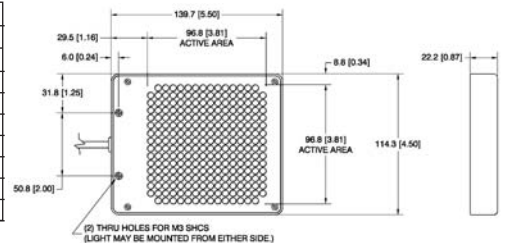
**Active Area:** 2.9" x 2.9" (73 mm x 73 mm) **Weight:** 16 oz. (454 g)  
**Dimensions:** H 4.5" (114.3 mm) x W 3.5" (88.9 mm) x D 0.87" (22.2 mm)

## AR 100x100

DESCRIPTION	nm/K	CONT. CURRENT	STROBE CURRENT		mcd/cm <sup>2</sup>	mw/cm <sup>2</sup>
			CHANNEL 1	CHANNEL 2		
AR-100x100, Red Continuous	636 nm	233 mA			1260	
AR-100x100, Red Strobe	636 nm		8.4 A		22700	
AR-100x100, White Continuous	6500 K	420 mA			3115	
AR-100x100, White Strobe*	6500 K		8.62 A	7.84 A	62300	
AR-100x100, Blue Continuous	470 nm	420 mA			3140	
AR-100x100, Blue Strobe*	470 nm		8.62 A	7.84 A	62800	
AR-100x100, Infrared Continuous	880 nm	218 mA				30
AR-100x100, Infrared Strobe	880 nm		5.04 A			600

\* These products have two separate circuits.

**Active Area:** 3.8" x 3.8" (97 mm x 97 mm) **Weight:** 20 oz. (567 g)  
**Dimensions:** H 5.5" (139.7 mm) x W 4.5" (114.3 mm) x D 0.87" (22.2 mm)



## AR 50x200

DESCRIPTION	nm/K	CONT. CURRENT		STROBE CURRENT		mcd/cm <sup>2</sup>	mw/cm <sup>2</sup>
		LIGHTING	FAN	CHANNEL 1	CHANNEL 2		
AR-50x200, Red Continuous	636 nm	447 mA	62 mA			2640	
AR-50x200, Red Strobe	636 nm			8.8 A		26400	
AR-50x200, White Continuous	6500 K	862 mA	62 mA			5440	
AR-50x200, White Strobe*	6500 K			8.62 A	8.62 A	54400	

\* These products have two separate circuits.

**Active Area:** 2" x 8" (51 mm x 203 mm) **Weight:** 20 oz. (567 g)  
**Dimensions:** H 2.36" (59.9 mm) x W 9" (228.6 mm) x D 2" (50.8 mm)



## ENVIRONMENTAL

**Operating Temperature:** 0° to 40° C (32° to 104° F)  
**Storage Temperature:** 0° to 50° C (32° to 122° F)  
**Humidity:** up to 95% (non-condensing)

## LIGHTING PARAMETERS

**Active Area Defined:** Area of light output from the illuminator.

## LIGHT SOURCE

**Type:** High output LEDs  
**Light Output:** Millicandelas per square centimeter (mcd/cm<sup>2</sup>)  
**Radiant Output:** Milliwatts per square centimeter (mw/cm<sup>2</sup>)  
**Expected Life:** 50,000 hours (Red, Infrared LEDs)  
**Expected Life:** 10,000 hours (Blue, White, Ultraviolet LEDs)  
**Eye Safety:** EN 60825-1: Class 1 (Red, White, Infrared LEDs); Class 1M (Ultraviolet LEDs); Class 2 (Blue LEDs)

## CONNECTOR

**Type:** 15 ft. (4.5 m) integrated cable with flying leads

## ELECTRICAL

**Power (Continuous Models):** 24 VDC +/- 1%  
**Power (Strobe Models):** 1 ms max. pulse width, 6% max duty cycle, use of NERLITE NL-200 Series Lighting Controller is required.

## CE COMPLIANT

## ISO CERTIFICATION

Certified ISO 9001:2008 Quality Management System

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Microscan Applications Engineering is available to assist with evaluations. Results may vary depending on symbol quality. **Warranty**—One year limited warranty on parts and labor. Free extended three year warranty available with online product registration.

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