

NERLITE® AREA ARRAY



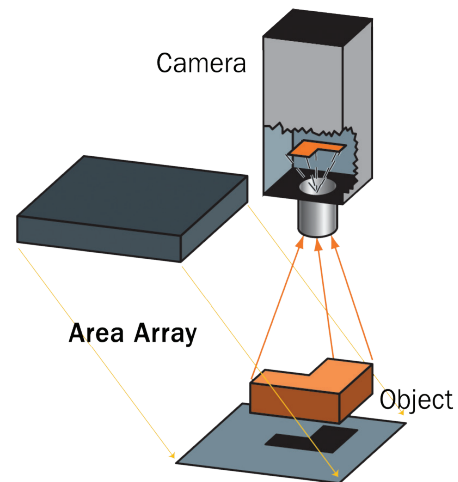
Economical Lighting Solution

Omron Microscan's wide range of NERLITE products can illuminate any part or mark for successful machine vision and auto ID applications.

An Area Array's general purpose, unidirectional design (adjustable via mounting position) may be used for dark field (creating shadows and specular reflection) or bright field lighting for diffused surfaces. As with other incident lighting choices, subtle adjustments to working distance and angle of light delivery can deliver good image contrast for minimal investment.

Area Array: At a Glance

- Features an economical, general purpose design
- Address a broad range of applications via light positioning in bright field or dark field
- Sturdy housings combined with LEDs rated at up to 50,000 hours
- Multiple arrays may be combined to address large field of view applications



Illumination Example:

Object



Resulting Image



Labeled bottle: Inspect for label presence or absence, correct label and proper orientation.

Application Examples

- Locate or measure outside dimensions
- Illuminate flat, diffused surfaces
- Control costs
- Non-diffuse incident (front) lighting
- Dark field or bright field lighting
- Label placement inspection

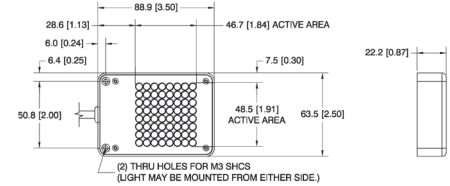
For more information on this product, visit www.microscan.com.

NERLITE® AREA ARRAY SPECIFICATIONS AND OPTIONS

AR 50x50

DESCRIPTION	nm/K	CONT. CURRENT	mcd/cm ²
AR-50x50, Red Continuous	636 nm	160 mA	2560
AR-50x50, White Continuous	6500 K	204 mA	3430

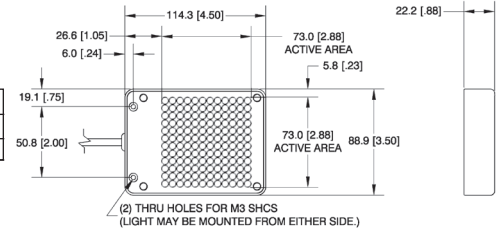
Active Area: 1.9" x 1.8" (49 mm x 47 mm) **Weight:** 14 oz. (397 g)
Dimensions: H 3.5" (88.9 mm) x W 2.5" (63.5 mm) x D 0.87" (22.2 mm)



AR 75x75

DESCRIPTION	nm/K	CONT. CURRENT	mcd/cm ²
AR-75x75, Red Continuous	636 nm	420 mA	3100
AR-75x75, White Continuous	6500 K	369 mA	4220

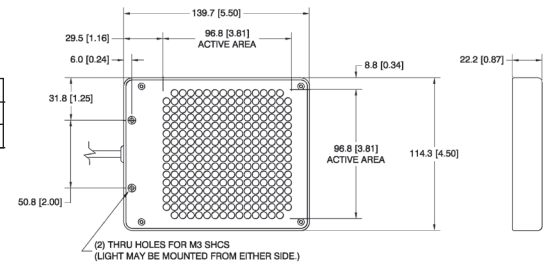
Active Area: 2.9" x 2.9" (73 mm x 73 mm) **Weight:** 16 oz. (454 g)
Dimensions: H 4.5" (114.3 mm) x W 3.5" (88.9 mm) x D 0.87" (22.2 mm)



AR 100x100

DESCRIPTION	nm/K	CONT. CURRENT	mcd/cm ²
AR-100x100, Red Continuous	636 nm	233 mA	1260
AR-100x100, White Continuous	6500 K	420 mA	3115

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)



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/cm²)

Radiant Output: Milliwatts per square centimeter (mw/cm²)

Expected Life: 50,000 hours (Red LEDs)

Expected Life: 10,000 hours (White LEDs)

Eye Safety: EN 60825-1: Class 1 (Red LEDs, White 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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Omron Microscan Applications Engineering is available to assist with evaluations. Results may vary depending on symbol quality.

Warranty—For current warranty information on this product, please visit www.microscan.com/warranty.



Omron Microscan Systems Inc.

Tel 425 226 5700 / 800 251 7711
 Fax 425 226 8250

Omron Microscan Europe

Tel 31 172 423360 / Fax 31 172 423366

Omron Microscan Asia Pacific

Tel 65 6846 1214 / Fax 65 6846 4641

www.microscan.com

Product Information: info@microscan.com

Technical Support: helpdesk@microscan.com