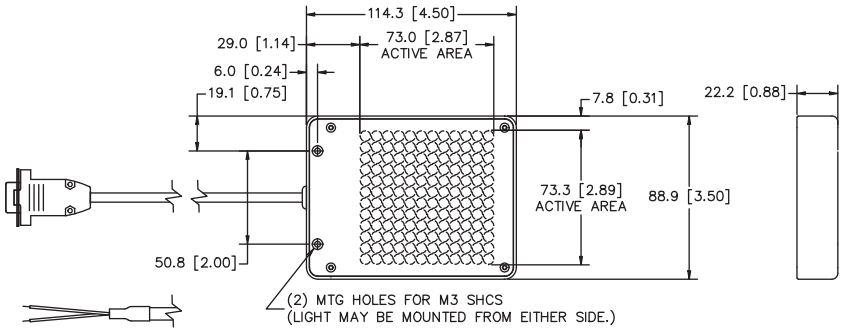
MICROSCAN®

NERLITE® AR-75 Series Area Array Illuminators

AR-75 Series Area Array Illuminators are designed for non-specular surface lighting in applications that demand economical solutions. All AR-75 Series modules employ non-diffused, square arrays of LEDs measuring approximately 75 mm per side, providing high output (HO) light from a specific direction onto the field of view. Using a new approach in thermal management technology for LED illumination, the AR-75 Series is able to support large LED arrays operating at temperature levels that guarantee long life. AR-75 Series modules may be used as dark-field (creating shadows and specular reflection) or as bright-field for diffused surfaces.

Model #	Description
NER-010652151	AR-75x75, R LED-ND, 12V-C, 2M (6.6 ft.) Cbl. w/DB9
NER-010903401	AR-75x75, R LED-ND, 24V-C, 2M (6.6 ft.) CBl. w/DB9
NER-010652171	AR-75x75, R LED-ND, 24V-S, 2M (6.6 ft.) Cbl. w/DB9
NER-010652153	AR-75x75, W LED-ND, 12V-C, 2M (6.6 ft.) Cbl. w/DB9
NER-010903501	AR-75x75, W LED-ND, 24V-C, 2M (6.6 ft.) Cbl. w/DB9
NER-010652173	AR-75x75, W LED-ND, 24V-S, 2M (6.6 ft.) Cbl. w/DB9



Description Key Example

AR-00x00,RLED-D,12V-C

- Family Designation
- Array Size (mm -approx.)
- Color: R-Red, W-White, B-Blue, G-Green, I-Infrared, U-Ultraviolet
- Source: FO-Fiber Optic, FL-Fluorescent, LED- Light Em. Diode
- Delivery: D-Diffused, N- Non-Diffused, F-Focused
- Voltage (DC): C-Continuous, S-Strobe

Mechanical:

L x W x H (mm/in.):	114.3 x 88.9 x 22.2 / 4.5 x 3.5 x 0.88
Mounting:	(2) M3 SHCS holes
Housing Material:	Black Anodized Aluminum
Weight:	454 grams (16 ozs.)

Environmental:

Max. Operating Humidity:	95% non-condensing
Operating Temp.:	40°C (104°F)
Storage Temp.:	50°C (122°F)

Illumination & Electrical:

Lighting Technique: Dark-field or Bright-field

Light Output Area: 73.0 mm x 73.0 mm (2.88 in. x 2.88 in.)

Light Characteristics:

			Voltage/Current (max.)		
Source	**Color (nm)**	**Exp. Life**	12V-C	24V-C	24V-S
LED	Red (636)	60k hrs.	552 mA	420 mA	6.0 A pk.
LED	White - 6500 Kelvin	10k hrs.	530 mA	265 mA	9.6 A pk.

CE Conformity: Yes

Accessories:

Part #	Description	Models Used On
NER-010502601	CPS-24T, 24VDC US w/9-pin D-sub	24V-C & 24V-S[1, 2]
NER-010502602	CPS-24T, 24VDC EU w/9-pin D-sub	24V-C & 24V-S[1, 2]
NER-010500301	CPS-12 3.5A, 12VDC, US Cord	12V-C
NER-010500303	CPS-12 3.5A, 12VDC, EU Cord	12V-C
NER-010502700	ICM-1, M/D Intensity Cntrl, 12V-C	12V-C
NER-010502701	ICM-1, M/D Intensity Cntrl, 24V-C	24V-C [2]
NER-010502702	SCM-1, 1 Channel M/D Strobe Cntrl.	24V-S
NER-010901900	SCM-2, 2 Channel Strobe Cntrl.	24V-S
NER-010503500	VPS-II, 2 Ch. Variable PS, US Cord	12V-C
NER-010503501	VPS-II, 2 Ch. Variable PS, EU Cord	12V-C
NER-BA00-0AA0	DSP60, 24VDC, 2.5A DIN Mount Power Supply	24V-C[1] & 24V-S[1]
NER-BA00-0AB0	DSP100, 24VDC, 4.2A DIN Mount Power Supply	24V-C[1] & 24V-S[1]
NER-DA00-0AB0	AC Power Cord, US, 1.8 M (6.0 ft.)	DIN Mount PS
NER-DA00-0AC0	AC Power Cord, EU, 2.5 M (8.2 ft.)	DIN Mount PS
NER-DA00-0AD0	AC Power Cord, UK, 2.0 M (6.6 ft.)	DIN Mount PS
NER-030003702	Ext. Cable, Cont., 1.8 M (6 ft.)	12V-C & 24V-C [2]
NER-030003703	Ext. Cable, Cont., 3.0 M (10 ft.)	12V-C & 24V-C [2]
NER-030003601	Y cable, 2 Lights, 9 pin D-sub Cont.	12V-C & 24V-C [2]
NER-030007006	Ext. Cable, Strobe, 1.8 M (6 ft.)	24V-S
NER-030007010	Ext. Cable, Strobe, 3.0 M (10 ft.)	24V-S
NER-030006900	Y cable, 2 Lights, 9 pin D-sub Strb.	24V-S

[1] NER-BA00-0AA0 or NER-BA00-0AB0 used with NER-010901900 or 24V-C "Flying Leads" configurations
NER-01050260x used with either NER-010502702 or 24V-C lights with DB-9 connectors

[2] 24V-C accessory is not compatible with "Flying Leads" configurations

Cables & Connectors:

	Connector	Length	Pin# 1	2	3	4	5	6	7	8	9
12V-C Models	9 pin D-sub Male	2.0 M (6.6 ft.)	n/a	n/a	GND	+12VDC	n/a	n/a	n/a	n/a	n/a
24V-S Models	9 pin D-sub Male	2.0 M (6.6 ft.)	V-	n/a	n/a	+24VDC	n/a	n/a	n/a	n/a	n/a
24V-C Models [1]	9 pin D-sub Male [1]	2.0 M (6.6 ft.) [1]	n/a	n/a	n/a	n/a	n/a	n/a	+24VDC	n/a	GND

[1] Note: 24V-C Models w/"Flying Leads" have a 4.5 M (15 ft.) cable with two (2) tinned leads and no connector; leads are labeled GND and V+ (+24VDC)

486 Amherst St. | Nashua, NH 03063 | Tel: 603 598 8400 | Fax: 603 577 5976 | nerlitesupport@microscan.com | www.microscan.com/nerlite