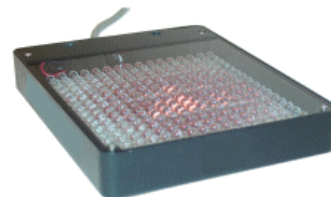


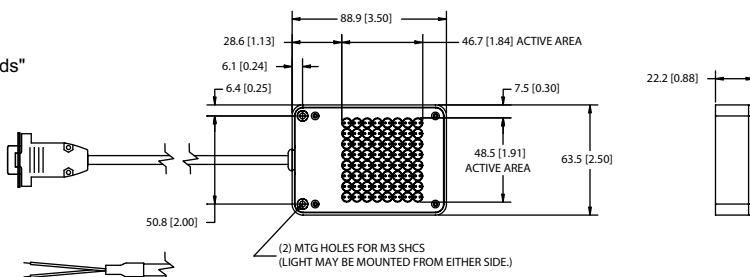
MICROSCAN®

NERLITE® AR-50 Series Area Array Illuminators

AR-50 Series Area Array Illuminators are designed for non-specular surface lighting in applications that demand economical solutions. All AR-50 Series modules employ non-diffused, square arrays of LEDs measuring approximately 50 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-50 Series is able to support large LED arrays operating at temperature levels that guarantee long life. AR-50 Series modules may be used as dark-field (creating shadows and specular reflection) or as bright-field for diffused surfaces.



Model #	Description
NER-010652101	AR-50x50, R LED-ND, 12V-C, 1.8M (6 ft.) Cbl. w/DB9
NER-010652111	AR-50x50, R LED-ND, 24V-C, 1.8M (6 ft.) Cbl. w/DB9
NER-010652115	AR-50x50, R LED-ND, 24V-C, 4.5M (15.0 ft.) Cbl. w/"Flying Leads"
NER-010652131	AR-50x50, R LED-ND, 24V-S, 1.8M (6 ft.) Cbl. w/DB9
NER-010652103	AR-50x50, W LED-ND, 12V-C, 1.8M (6 ft.) Cbl. w/DB9
NER-010652113	AR-50x50, W LED-ND, 24V-C, 1.8M (6 ft.) Cbl. w/DB9
NER-010652114	AR-50x50, W LED-ND, 24V-C, 4.5M (15.0 ft.) Cbl.w/"Flying Leads"
NER-010652133	AR-50x50, W LED-ND, 24V-S, 1.8M (6 ft.) Cbl. w/DB9



Description Key Example

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

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

Mechanical:

L x W x H (mm/in.):

88.9 x 63.5 x 22.2 /
3.50 x 2.50 x 0.88

Mounting:

Housing Material:

(2) M3 SHCS holes
Black Anodized Aluminum

Weight:

397 grams (14 oz.)

Illumination & Electrical:

Lighting Technique:

Dark-field or Bright-field

Light Output Area:

46.7 mm x 48.5 mm
(1.84 in. x 1.91 in.)

Light Characteristics:

Source	Color (nm)	Exp. Life	Voltage/Current (max.)		
			12V-C	24V-C	24V-S
LED	Red (636)	60k hrs.	355 mA	160 mA	3.2 A pk.
LED	White - 6500 Kelvin	10k hrs.	440 mA	320 mA	4.4 A pk.

CE Conformity:

Yes

Environmental

Max. Operating Humidity

95% non-condensing

Operating Temp.

40°C (104°F)

Storage Temp.

50°C (122°F)

Accessories:

Part #	Description	Models Used On
NER-010500301	CPS-12 3.5A, 12VDC, US Cord	12V-C
NER-010500303	CPS-12 3.5A, 12VDC, EU Cord	12V-C
NER-010501402	CPS-24, 24VDC, US cord	24V-S ¹
NER-010501401	CPS-24, 24VDC, EU cord	24V-S ¹
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-010502700	ICM-1, M/D, 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-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, 9 pin D-sub Strobe	24V-S

¹ NER-01050140x used only with NER-010901900;

NER-01050260x used with either NER-010502702 or 24V-C lights with DB-9 connectors

² 24V-C and 24V-S accessories are not available for "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	1.8 M (6 ft.)		n/a	n/a	GND	+12VDC	n/a	n/a	n/a	n/a	n/a
24V-S Models ¹	9 pin D-sub Male	1.8 M (6 ft.) ¹		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	1.8 M (6 ft.) ¹		n/a	n/a	n/a	n/a	n/a	n/a	+24VDC	n/a	GND

¹ Note: 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)