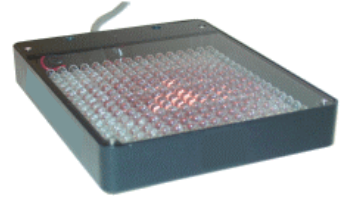
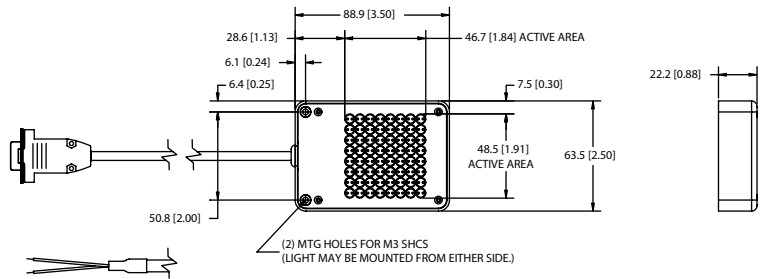


NERLITE® AR-50 Series Area Array Illuminators

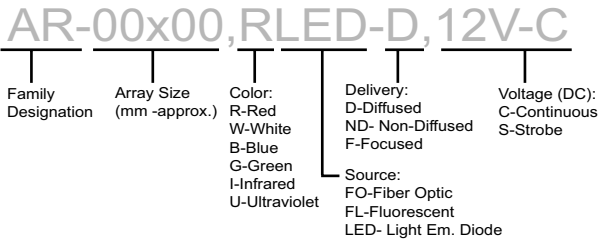
AR-50 Series Area Array Illuminators are designed for non-specular surface lighting in applications that demand economical solutions. All AR-50 Series modules employ non-diffused, square arrays of LEDs measuring approximately 50 mm per side, providing high output (HO) light from a specific direction 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
RVA:010652101	AR-50x50, R LED-ND, 12V-C, 636nm
RVA:010652107	AR-50x50, R LED-ND, 12V-C, 630nm
RVA:010652111	AR-50x50, R LED-ND, 24V-C w/9 pin D-sub
RVA:010652115	AR-50x50, R LED-ND, 24V-C w/"Flying Leads"
RVA:010652131	AR-50x50, R LED-ND, 24V-S
RVA:010652103	AR-50x50, W LED-ND, 12V-C
RVA:010652113	AR-50x50, W LED-ND, 24V-C w/9 pin D-sub
RVA:010652114	AR-50x50, W LED-ND, 24V-C w/"Flying Leads"
RVA:010652133	AR-50x50, W LED-ND, 24V-S
RVA:010652105	AR-50x50, B LED-ND, 12V-C
RVA:010652125	AR-50x50, B LED-ND, 24V-C w/9 pin D-sub
RVA:010652135	AR-50x50, B LED-ND, 24V-S
RVA:010904501	AR-50x50, I LED-ND, 12V-C
RVA:010904503	AR-50x50, I LED-ND, 24V-C w/9 pin D-sub
RVA:010904509	AR-50x50, I LED-ND, 24V-C w/"Flying Leads"
RVA:010904505	AR-50x50, I LED-ND, 24V-S



Description Key Example



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

Weight:

Black Anodized Aluminum

397 grams (14 oz.)

Accessories:

Part #	Description	Models Used On
RVA:010500301	CPS-12 3.5A, 12VDC, US Cord	12V-C
RVA:010500303	CPS-12 3.5A, 12VDC, EU Cord	12V-C
RVA:010501402	CPS-24, 24VDC, US cord	24V-S ¹
RVA:010501401	CPS-24, 24VDC, EU cord	24V-S ¹
RVA:010502601	CPS-24T, 24VDC US w/9-pin D-sub	24V-C & 24V-S ^{1,2}
RVA:010502602	CPS-24T, 24VDC EU w/9-pin D-sub	24V-C & 24V-S ^{1,2}
RVA:010502700	ICM-1, M/D, 12V-C	12V-C
RVA:010502701	ICM-1, M/D Intensity Cntrl, 24V-C	24V-C ²
RVA:010502702	SCM-1, 1 Channel M/D Strobe Cntrl.	24V-S
RVA:010901900	SCM-2, 2 Channel Strobe Cntrl.	24V-S
RVA:010503500	VPS-II, 2 Ch. Variable PS, US Cord	12V-C
RVA:010503501	VPS-II, 2 Ch. Variable PS, EU Cord	12V-C
RVA:030003702	Ext. Cable, Cont., 1.8 M (6 ft.)	12V-C & 24V-C ²
RVA:030003703	Ext. Cable, Cont., 3.0 M (10 ft.)	12V-C & 24V-C ²
RVA:030003601	Y cable, 2 Lights, 9 pin D-sub Cont.	12V-C & 24V-C ²
RVA:030007006	Ext. Cable, Strobe, 1.8 M (6 ft.)	24V-S
RVA:030007010	Ext. Cable, Strobe, 3.0 M (10 ft.)	24V-S
RVA:030006900	Y cable, 9 pin D-sub Strobe	24V-S

¹ RVA:01050140x used only with RVA:010901900;

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

² 24V-C accessories are not available for "Flying Leads" configurations

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	Red (630)	50k hrs.	400 mA	tdb	tdb
LED	White - 6500 Kelvin	10k hrs.	440 mA	320 mA	4.4 A pk.
LED	Blue (470)	10k hrs.	440 mA	tdb	4.4 A pk.
LED	IR (940)	50k hrs.	176 mA	80 mA	1.6 A pk.

CE Conformity:

Yes

Environmental

Max. Operating Humidity

95% non-condensing

Operating Temp.

40°C (104°F)

Storage Temp.

50°C (122°F)

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	9 pin D-sub Male	1.8 M (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	1.8 M (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)