

MICROSCAN®

NERLITE® S-40 Series Custom Models

S-40 Area Arrays employ a non-diffused round or 'spot' design providing light from a specific direction onto the field of view. The direction of the illumination is dependent upon the mounting position. S-40 Series modules may be used as dark-field (creating shadows and specular reflection), or as bright-field for diffused surfaces.

Model #	Description
NER-010650310	S-40, I LED-ND, 24V-C, 880 nm
NER-010650312	S-40, I LED-ND, 24V-C, 940nm, 15' Cbl w/Flying Leads ²
NER-010651225	S-40, U LED-ND, 24V-S
NER-010651226	S-40, U LED-ND, 24V-C, w/ Glass Cover
NER-010651201	S-40, B LED-ND, 12V-C, 1.8M (6 ft.) Cbl. w/DB9
NER-010651200	S-40, W LED-ND, 12V-C, 1.8M (6 ft.) Cbl. ² w/DB9
NER-010651220	S-40, W LED-ND, 24V-C, 4.5M (15 ft.) Cbl. w/Flying Leads
NER-010650302	S-40, R LED-ND, 12V-C, 1.8M (6 ft.) Cbl. w/DB9
NER-010650323	S-40, R LED-ND, 24V-C, 4.5M (15 ft.) Cbl. w/Flying Leads
NER-010650301	S-40, R LED-D, 12V-C, 1.8M (6 ft.) Cbl. w/DB9
NER-010650320	S-40, R LED-D, 24V-C, 4.5M (15 ft.) Cbl. w/Flying Leads



Mechanical:
OD x H (mm/in.):

38.1mm x 54.2 mm
(1.50 in. x 2.14 in.)

Mounting:
Mounting Material:
Weight:

(1) 10-32 stud on top of unit
Black Anodized Aluminum
227 grams (8 oz.)

Environmental:
Max. Operating Humidity
Operating Temp.
Storage Temp.

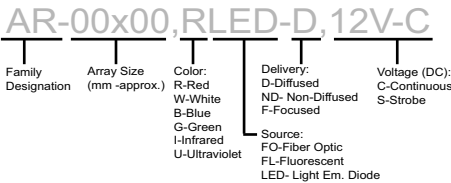
95% non-condensing
40°C (104°F)²
50°C (122°F)

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 ^{1,2}
NER-010501401	CPS-24, 24VDC, EU cord	24V-S ^{1,2}
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 Intensity Cntrl, 12V-C	12V-C
NER-010502701	ICM-1, M/D Intensity Cntrl, 24V-C	24V-C ¹
NER-010502702	SCM-1, 1 Channel M/D Strobe Cntrl.	24V-S ¹
NER-010901900	SCM-2, 2 Channel Strobe Cntrl.	24V-S ¹
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 ¹
NER-030003703	Ext. Cable, Cont., 3.0 M (10 ft.)	12V-C & 24V-C ¹
NER-030003601	Y cable, 2 Lights, 9 pin D-sub Cont.	12V-C & 24V-C ¹
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-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

Description Key Example



Illumination & Electrical:

Lighting Technique:

Bright or Dark-field

Light Output Area:

31.8 mm (1.25 in.)

Light Characteristics:

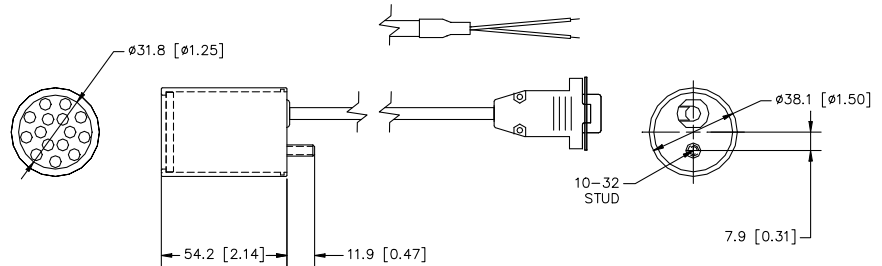
Source	Color (nm)	Exp. Life ²	Voltage/Current (max.)		
			12V-C	24V-C	24V-S
LED	UV (370)	TBD ^{1,2}	n/a	40 mA	154 mA pk.
LED	Red (636)	60k hrs. ²	75 mA	n/a	n/a
LED	IR (880)	50k hrs. ²	n/a	42 mA	n/a
LED	IR (940)	50k hrs. ²	n/a	42 mA	n/a
LED	White - 6500 Kelvin	10k hrs. ²	100 mA	46 mA	n/a
LED	Blue (470)	10k hrs. ²	100 mA	n/a	n/a

CE Conformity:

All except UV Models

¹ Insufficient data precludes predicting UV LED life expectancy; A spare light strategy is recommended for production systems

² Continuous power models with windows (clear, diffused or focused) run hot. To maximize product life, external cooling (e.g. fan and/or reduced ambient temperature) is required.



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 (6.0 ft.)		n/a	n/a	GND	+12VDC	n/a	n/a	n/a	n/a	n/a
24V-C Models¹	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
24V-S Models¹	9 pin D-sub Male ¹	2.0 M (6.6 ft.) ¹		V-	n/a	n/a	+24VDC	n/a	n/a	n/a	n/a	n/a

¹ Note: 24V-C and 24V-S 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)