NERLITE® BACKLIGHT

Large Area Uniform Back Lighting

Available In Three Sizes

Available In Three Colors & Infrared

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

Large Area Backlight illuminators provide sharp contrast to outline a part's shape, find edges and view openings such as drilled holes. High intensity and uniformity are packed into a low-profile industrial package for optimal thermal management. Models for continous or strobe duty cycles to support static or high speed applications.

Backlight: At a Glance

- *Variety of colors and wavelegths for both continuous and strobed power sources*
- *High level of uniformity for repeatable results*
- *M12 connectors for easy connections to drivers or advanced controllers*
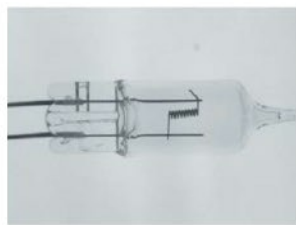- *Low profile, compact shape for flexible integration*
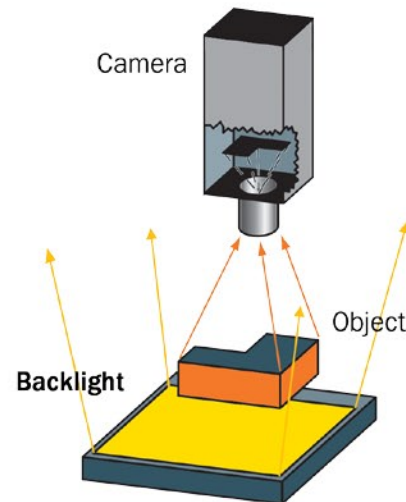
Illumination Example:

Object   Resulting Image

Light bulb: Resulting image clearly shows silhouette of filament inside the bulb.

Camera

Object

Backlight

Application Examples

- Locate or measure outside dimensions
- View openings (e.g., drilled holes)
- Diminsh clear glass or plastic housings
- Measure thickness of materials
- Locate mounting holes
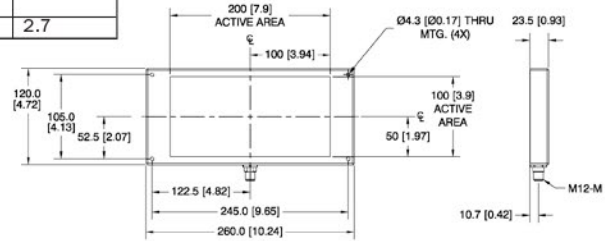- Measure translucency
- Diffuse incident (front) lighting

MICROSCAN®

BACKLIGHT 100x200

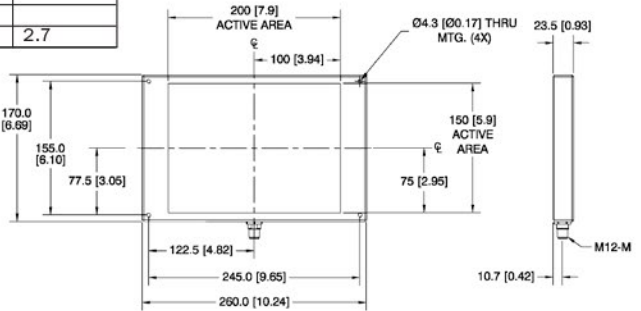| DESCRIPTION	nm/K	CONT. CURRENT	STROBE CURRENT	LUX		mw/cm²	
				CONT	STROBED	CONT	STROBED
Backlight, 100x200, Red	625 nm	700 mA	1.0 A	2500	3550		
Backlight, 100x200, White	5500 K	700 mA	950 mA	1750	2400		
Backlight, 100x200, Blue	470 nm	700 mA	950 mA	685	935		
Backlight, 100x200, Infrared	850 nm	700 mA	1.0 A			1.9	2.7

Active Area: 3.9" x 7.9" (100 mm x 200 mm) **Weight:** 39 oz. (1100 g)
Dimensions: H 4.72" (120 mm) x W 10.24" (260 mm) x D 0.93" (23.5 mm)

BACKLIGHT 150x200

| DESCRIPTION	nm/K	CONT. CURRENT	STROBE CURRENT	LUX		mw/cm²	
				CONT	STROBED	CONT	STROBED
Backlight, 150x200, Red	625 nm	1.05 A	1.5 A	2500	3550		
Backlight, 150x200, White	5500 K	1.05 A	1.43 A	1750	2400		
Backlight, 150x200, Blue	470 nm	1.05 A	1.43 A	685	935		
Backlight, 150x200, Infrared	850 nm	1.4 A	2.0 A			1.9	2.7

Active Area: 5.9" x 7.9" (150 mm x 200 mm) **Weight:** 53 oz. (1500 g)
Dimensions: H 6.69" (170 mm) x W 10.24" (260 mm) x D 0.93" (23.5 mm)

BACKLIGHT 200x250

DESCRIPTION	nm/K	CONT. CURRENT	STROBE CURRENT	LUX		mw/cm²	
				CONT	STROBED	CONT	STROBED
Backlight, 200x250, Red	625 nm	1.4 A	2.0 A	2000	2850		
Backlight, 200x250, White	5500 K	1.4 A	1.9 A	1400	1900		
Backlight, 200x250, Blue	470 nm	1.4 A	1.9 A	550	750		
Backlight, 200x250, Infrared	850 nm	1.4 A	2.0 A			1.5	2.1

Active Area: 7.9" x 9.8" (200 mm x 250 mm) **Weight:** 85 oz. (2400 g)
Dimensions: H 8.66" (220 mm) x W 12.2" (310 mm) x D 0.93" (23.5 mm)
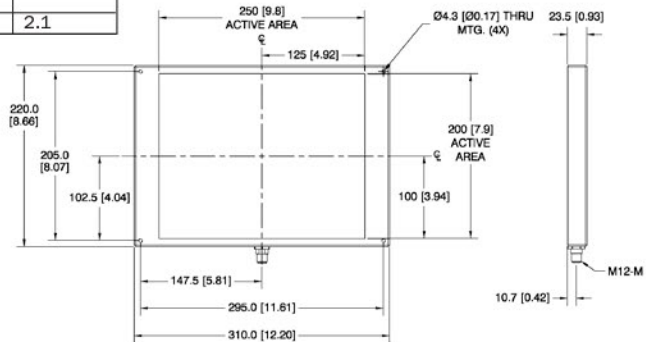
ENVIRONMENTAL
Operating Temperature: 0° to 40° C (32° to 104° F)
Storage Temperature: 0° to 50° C (32° to 122° F)
Humidity: up to 95% (non-condensing)

LIGHTING PARAMETERS
Active Area Defined: Area of light output from the illuminator

LIGHT SOURCE
Type: High output LEDs
Light Output: Lux (lumens per square centimeter)
Radiant Output: Milliwatts per square centimeter (mw/cm²)
Expected Life: 50,000 hours
Eye Safety: EN 60825-1: Class 2

CONNECTOR
Type: 4-pin M12 male panel mount

ELECTRICAL
Power (Continuous Operation): Use of NERLITE LC Series or NL-200 Series controller is required. See Backlight configuration guide to select appropriate controller for your application.
Power (Strobe Operation): 1 ms max. pulse width, 6% max duty cycle. Use of NERLITE NL-200 Series controller is required.

WARNING
DO NOT CONNECT LIGHTS DIRECTLY TO 24 VDC. LIGHTS WILL BE DAMAGED.

CE COMPLIANT

ISO CERTIFICATION
Certified ISO 9001:2008 Quality Management System

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