

High Power Linear Backlights



Product Highlights

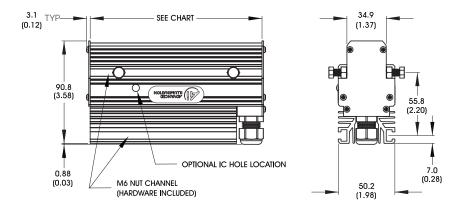
- Perfect for line scanning applications: 540,000 lux
- Expandable in 6" increments; available in lengths from 152mm (6") up to 2438mm (96")
- Intensity control of entire light via 0-16v input



General Specifications

	Color	24v Current	All Other Controls
Electrical Specifications	WHI	0.76 A per 6 inches	0.76 A Max per 6 inches
Normal Operating Temperature	0 - 60°C		
Weight (g)	Per 12" - 1247.4g (44oz)		
Standard Cable Information	Up to 2 meters (80") long - 105°C rated PVC jacket, foil shield with drain.		
Photobiological Risk Factor IEC 62471	Group 1 (Low-Risk) Applicable Wavelengths: WHI		
Compliance	CE ROHS IEC 62471		
IP Rating	Unsealed - IP50		
Lumen Maintenance	L70 = 50,000 hours		

Mechanical Specifications



Part #	Length in mm (inches)	
BL16806	152	(6)
BL16812	305	(12)
BL16818	457	(18)
BL16824	610	(24)
BL16830	762	(30)
BL16836	914	(36)
BL16842	1067	(42)
6" Increments up to a max of 90"		

DIMENSIONS ARE IN MILLIMETERS (INCHES)

Part Number Key

Model	Lighted Length	I	Spectral Wavelength	Connector/ Control
BL168	XX	_	XXX	XX
BL168	06" increments up to 96"		(white) WHI	C1 ¹ IC 24
Ex: BL16806-WHIC1 BL16824-WHIIC			¹ M	ax length 12"

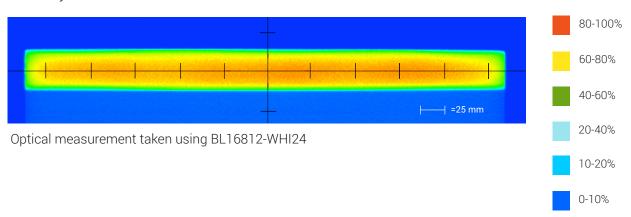
Stock Product: ships within 3 days Build to Order. shipped within two weeks None

Connector | Control Options

C1 Connector	IC	24
For use with: DCS Series Controllers	Please see page 4 for IC information	Flying/tinned leads Powered with: 24V power supply

Optical Performance

Intensity Distribution



Area of Illuminance & Intensity



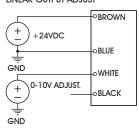
Operation and Wiring

24 Volt

Function	Wire Color	
+24v DC	Brown	
0-10v DC Analog Control	White	
GND	Blue	
N/A	Black	

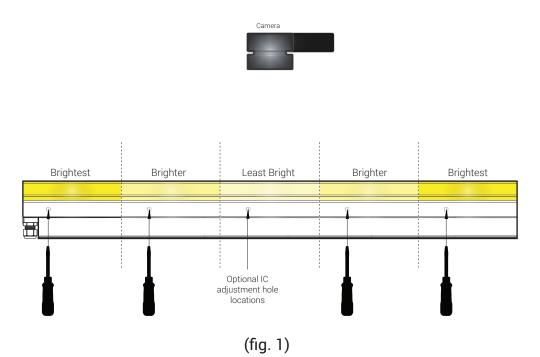
The entire light's intensity can be controlled via external 0-10 V analog controller using the white wire

0-10V ANALOG CONTROL LINEAR OUTPUT ADJUST



IC Control —

The IC option allows for control of intensity on each 6" (152mm) section of BL138, BL168, LL137 and LL167 only. Fig. 1 shows 5 segments of 6" (152mm) BL138 with IC adjustment holes.



Controlling each 6" (152mm) section independently and making the center of the line less bright and the outside of the immediate camera viewing radius brighter ultimately results in better imaging.

Better imaging occurs because the camera can see very well in it's area of focus, but outside that area the camera doesn't focus as well without brighter illumination.

Ai recommends using IC adjustment holes for aforementioned lights over 24" (610mm) long.

Warranty Information

Every Advanced illumination, Inc. (Ai) product is thoroughly inspected and tested before leaving the factory.

Products are warranted to be free of defects in workmanship and materials for a period of two years from the

original date of purchase. Should a defect develop during this period, please contact Ai Customer Service or your

Ai distributor for a Return Merchandise Authorization (RMA), and return the complete product, freight prepaid, to Ai.

If a defect is found, Ai will - at our discretion - repair or replace the product without charge. Ai claims no liability for

any implied warranties, including "merchantability" and "fitness for a specific purpose."

Electromagnetic Compatibility

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility

(EMC) as stated in the product specifications. These requirements and limits are designed to provide reasonable

protection against harmful interference only when the product is operated in its intended industrial electromagnetic

environment. To minimize the potential for electromagnetic interference or unacceptable performance degradation,

install and use this product in strict accordance with the instructions in the product documentation.

Customer Service

For information on existing orders, or to make an order adjustment, contact us Monday through Friday 8:00 am to

5:00 pm, EST or send an email to orders@advill.com.

Company Information

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