

DL37100

3" x 3" Axial Diffuse Illuminator



- Aii** Even illumination over the full 75mm x 75mm field of view.
- Aii** Designed for inspecting large specular objects.

Ordering Information

Standard Product:
Shipped Next Day

Standard Product Variation:
Shipped Within Two Weeks

DL37100

P/N: DL37100-660
Configured for use with Ai
Power Supply

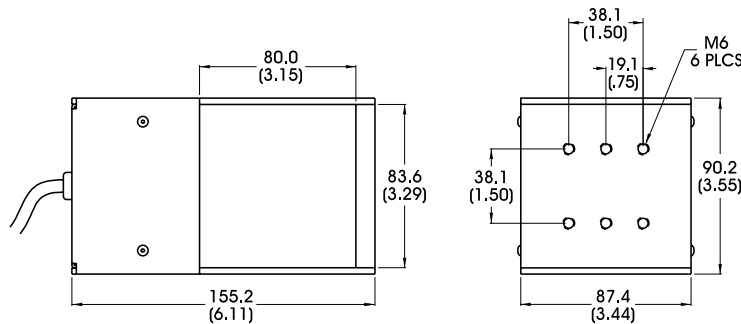
	Spectral wavelength	Optional power Compatibility	Optional light Conditioning	Alternative Connector
DL37100 -	XXX	XX	X	XXX
(UV)	395 [◇]	IC	D (Diffuser)	M12*
(blue)	470 [†]	IS		
(green)	520 [†]	C2		
(yellow)	590	C3		
(orange)	625	C5		
(red)	660	12		
(infra-red)	880	24		
(white)	WHI [†]			

IC = iCS (requires 24v power supply)
IS = iSU (requires 24v power supply)
C2 = Ai Connector
C3 = Pulsar 710 Connector
C5 = Pulsar 320 Connector
* Available with IC, IS, and 24v options only
[†] Not available in 12v

Optimal working distance:
25.4mm (1")
Effective Working Range:
12.7-50mm (.5"-2")

[◇] UV LEDs have a considerably shorter half-life than other LEDs (<1000hrs). For this reason Ai recommends these LEDs be used in strobe mode only. For applications requiring continuous 24v power, contact Ai for assistance.

Dimensional Information



[Click for Installation Models & Drawings](#)

DIMENSIONS ARE IN MILLIMETERS (INCHES)

Standard Variation Current Specifications

	blue	green	yellow	orange	red	infra-red	white	RGB	
@12	N/A	N/A	400	400	600	600	N/A	N/A	mA
@24	400	400	200	200	300	300	400	N/A	mA

Standard Product Information

Product Lifetime:	50,000 hours
Operating Temperature:	0-60° C



inline Strobe Unit

Built-in Strobe



- 4i) Built into the power cable**
- 4i) Manual potentiometer adjustable range of 30 to 300 μ Sec output pulse-width**
- 4i) Timing Bypass Option**



shown with the RL121

The ISU (Inline Strobe Unit) is a small, lightweight strobe source designed to drive LED light assemblies up to a maximum current of 12A (pulse-width dependent). The unit resides outside of the associated light head being placed “inline” with the light head power cable. Maximum light head drive current is set at the factory for a given light source while a user adjustable range of 30 to 300 μ Sec output pulse width is available (via potentiometer or through trigger pulse width). The unit is designed to operate with a DC input voltage of between 18 and 35 volts.

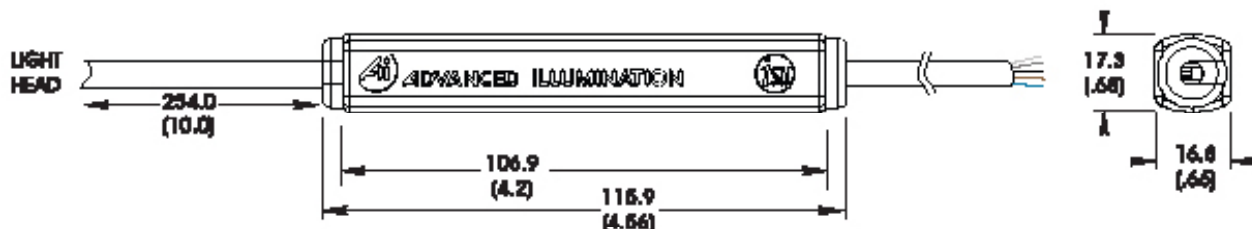
The unit has two triggering modes of operation:

Fixed Trigger Mode: Selectable pulse width range of 30-300 μ Seconds that is accessible via user-adjust potentiometer.

Timing Bypass Trigger Mode: Output Pulse width follows the width of input trigger. User-adjust potentiometer sets the maximum.

An active high and active low input trigger is available. External wire (mode select) must be connected to GND (0V in this case) in order to select timing bypass model.

Dimensional Information



The ISU is not detachable. Standard location is 10" from the light head; if necessary, a different cable length and / or ISU location can be specified when ordering. Standard Cable Length (including ISU) is 1.5M (59").

DIMENSIONS ARE IN MILLIMETERS (INCHES)

ISU SPECIFICATIONS

Parameter	Specification	Notes
Input Voltage Range	+18 to 30VDC	
Strobe output	0 - 12A*	* Pulse-width/Light head dependent
Current Output Adj.	Min to Max Current adj. as established by factory setting	Maximum current set assuming 300µSec operation
Max. Input Current	1.1A	Approx 100ma local
Trigger	Active HI: WHITE Active LO: BLACK	TTL compatible, 30VDC tolerant
Max. Output Voltage	= Vin - 1v	
Mechanical & Environmental		
Power Indicator	Red LED is used to indicate power is being supplied	
Storage Temperature	-40 to +125C	
Operating Temperature	0 to +70C	
Housing Material	High Impact Polycarbonate	
Weight	Approx 1.7 oz	Cable Not Included
Size	Approx 4.55L x 0.67W x 0.70H	Inches

ISU PINOUT

BROWN	VIN +
BLUE	VIN -
WHITE	Active high trigger input
BLACK	Active low trigger input
GRAY	Trigger Mode Select: Connect to 0V to enable timing bypass. Leave floating for fixed trigger mode

ISU TRIGGER MODES

