

# RL113

## High Intensity Bright Field Ring Lights Product Datasheet

**M4 Mounting**  
Designed with four opposing  
M4 mounting points for highly  
adjustable positioning

**High Power LEDs**  
Equipped with industrial grade LEDs capable  
of high output strobe and continuous opera-  
tion, all while maintaining a long lifespan

**Ruggedized Enclosure**  
Compliant with IP67 requirements  
and is well suited for demanding  
environments.

**Universal LED Pads**  
Engineered to meet a wide range of  
spectral needs, this light incorporates a  
universal pad design allowing for a  
multitude of wavelength possibilities

### RL113 Series Description

The RL113 provides directional, high-intensity light in both on and off-axis applications, especially on relatively flat, non-reflective surfaces.

The RL113 differs from the RL208 Bright Field light in that it is IP67 rated for more demanding wash-down and/or dusty environments.

Due to its slightly wider emitting surface, it also has an option for narrow lenses, which allow the light to be used in longer WD applications. The availability of narrow lenses is dependent on the wavelength and type of LED.



**High Intensity**



**Dust Proof**



**16 Available Wavelengths**



**Multiple Control Options**



**1-2 Week BTO Lead Times Typical**

## General Information

## General Specifications

| Category      | Specification                  |          |                                                                                                                             | Detail                                                                                                                      |                             |
|---------------|--------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Optical       | Available Wavelengths          |          |                                                                                                                             | WHI, 365 nm, 375 nm, 385 nm, 395 nm, 405 nm, 455 nm, 470 nm, 505 nm, 530 nm, 590 nm, 625 nm, 660 nm, 730 nm, 850 nm, 940 nm |                             |
|               | Available Lensing              |          |                                                                                                                             | Narrow (10°), Medium (25°), Wide (40°) (Khatod)                                                                             |                             |
|               | Available Light Conditioning   |          |                                                                                                                             | None                                                                                                                        |                             |
| Electrical    | Power Consumption Info         |          |                                                                                                                             | See Power Requirements on Page 8                                                                                            |                             |
|               | Cable Info                     |          |                                                                                                                             | 80" -0/+6" Long (2 m -0/+150 mm), 105 °C Rated, Foil Shield w/ Drain                                                        |                             |
| Mechanical    | Sizing Info                    | Standard | Outer Diameter                                                                                                              | 6.00"(152.4mm)                                                                                                              | See Page 7 for More Details |
|               |                                |          | Inner Diameter                                                                                                              | 2.06" (66.0mm)                                                                                                              |                             |
|               |                                |          | Height                                                                                                                      | 1.60"(40.7mm)                                                                                                               |                             |
|               | Weight Info (Standard)         |          |                                                                                                                             | ~ 1.60 lbs (~725 g) per Unit                                                                                                |                             |
|               | Mounting Info                  |          |                                                                                                                             | M4 Mounting Holes                                                                                                           |                             |
| Material Info |                                |          | Anodized Aluminum Housing, Acrylic Window, Nickel Plated Brass Strain Relief, PVC Cable Jacket, Steel Black Oxide Fasteners |                                                                                                                             |                             |
| Thermal       | Operating Case Temperatures    |          |                                                                                                                             | 25 °C to 60 °C                                                                                                              |                             |
|               | Operating Ambient Temperatures |          |                                                                                                                             | 0 °C to 35 °C                                                                                                               |                             |
| Certification | Compliance                     |          |                                                                                                                             | CE, RoHS, IEC 62471                                                                                                         |                             |
|               | IP Rating                      |          |                                                                                                                             | IP67                                                                                                                        |                             |
|               | Lumen Maintenance - White Only |          |                                                                                                                             | L70 (50,000 Hours)                                                                                                          |                             |

### General Information - Continued

## Part Number Key

| Model             | Lens Type  | - | Peak Wavelength               | Connector/Control | - | Alternative Connector |
|-------------------|------------|---|-------------------------------|-------------------|---|-----------------------|
| RL113             | X          | - | XXX                           | XX                | - | XXX                   |
| RL113             | N (Narrow) |   | 365 (UV)                      | C1                |   | M8 <sup>1</sup>       |
|                   | M (Medium) |   | 375 (UV)                      | C5                |   | M12 <sup>1</sup>      |
|                   | W (Wide)   |   | 385 (UV)                      | IC                |   |                       |
|                   |            |   | 395 (UV)                      | I3                |   |                       |
|                   |            |   | 405 (violet)                  | I3S               |   |                       |
|                   |            |   | 455 (royal blue)              | 24                |   |                       |
|                   |            |   | 470 (blue)                    |                   |   |                       |
|                   |            |   | 505 (cyan)                    |                   |   |                       |
|                   |            |   | 530 (green)                   |                   |   |                       |
|                   |            |   | 590 (amber) <sup>2</sup>      |                   |   |                       |
|                   |            |   | 625 (red orange) <sup>2</sup> |                   |   |                       |
|                   |            |   | 660 (red)                     |                   |   |                       |
|                   |            |   | 730 (IR)                      |                   |   |                       |
|                   |            |   | 850 (IR)                      |                   |   |                       |
|                   |            |   | 940 (IR)                      |                   |   |                       |
|                   |            |   | WHI (white)                   |                   |   |                       |
| more info on page |            |   | 5                             | 10                |   | 12                    |

**Example Part Numbers:**

RL113M-470C5  
RL113-625I3-M12

Beam Angle (FWHM):

Narrow = 8°  
Medium = 21°  
Wide = 29°

<sup>1</sup> Available with IC, I3, I3S, and 24 V options only

<sup>2</sup> Not available with 24 V option

**In Stock**

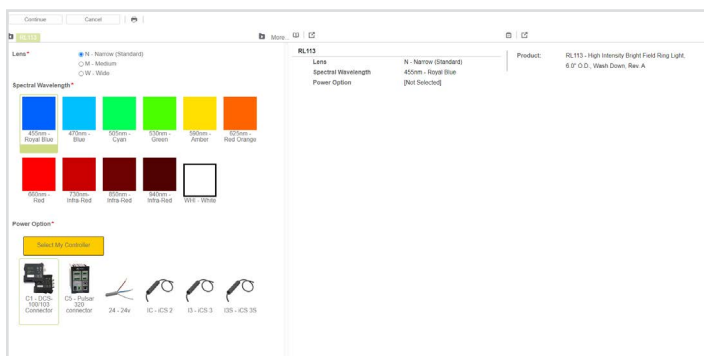
## Lead Times

RL113-WHIIC

Stock products ship within three days.

Build-to-Order custom products ship within one to three weeks.

## Online Configurator

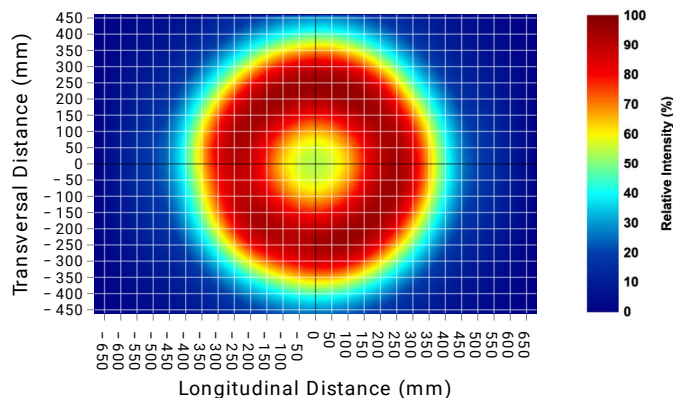


Need a build-to-order custom lighting solution in 3 weeks or less? Advanced Illumination's online configurator helps you tailor our RL113 High Intensity Bright Field Ring Light Series to your specific needs. For a guided configuration, [visit our online configurator](#).

## Optical Information

### Intensity Distribution Sample

Intensity Distribution at 100 mm Working Distance



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### Intensity and FWHM vs Working Distance

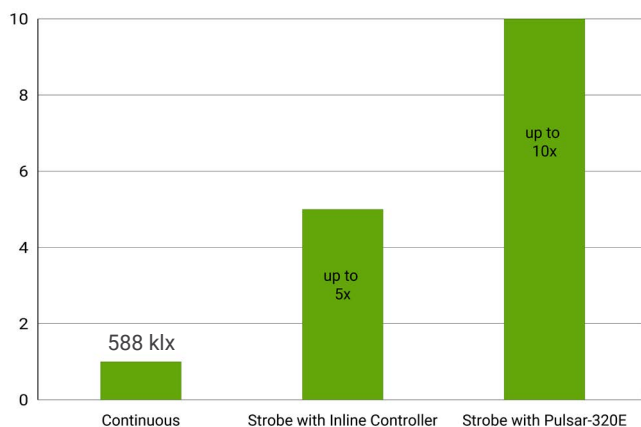
Intensity vs Working Distance



FWHM vs Working Distance



### Continuous vs Pulsed Intensity

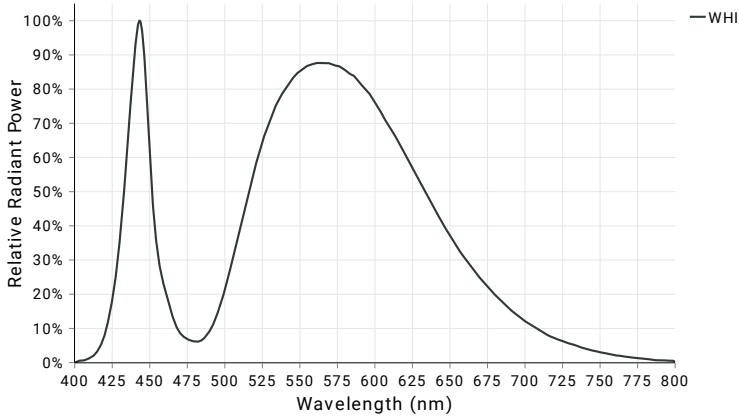


Under continuous operation, a white RL113 unit will output an **illuminance of 588 klx** and an **irradiance of 2000 W/m<sup>2</sup>** at the emitting surface. For applications that require higher output, the RL113 Series has been engineered to be overdrive strobe capable. When configured with AI's strobe enabled Inline Controller (I3, I3S, and I4), the RL113 is capable of outputting up-to 5X continuous levels. When configured with a C5 connector, compatible with AI's Pulsar 320E, an **RL113 can be strobed up-to 10X continuous intensity levels.**

Disclaimer: The measurements provided above are for approximations only and may vary depending on the method of measurement and the specific configuration being measured.

## Optical Information - Continued

### White Spectral Profile

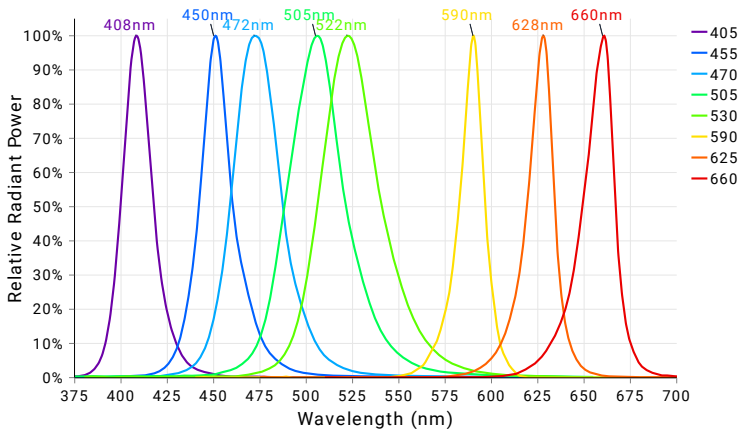


White LED illumination is the most commonly used machine vision lighting configuration. It is often the default choice when specific features of interest do not require color-based highlighting. However, [white LEDs can vary in color temperature, which can impact machine vision systems](#), specifically when matching white light sources.

The RL113 Series white LEDs have a relatively neutral color correlated temperature (CCT) of **5700 K**.

For a more detailed look at the white spectral data, download the [csv file of the raw spectral values](#) and refer to our [Product Spectra Distribution Charts PDF](#).

### Visible Spectral Profiles

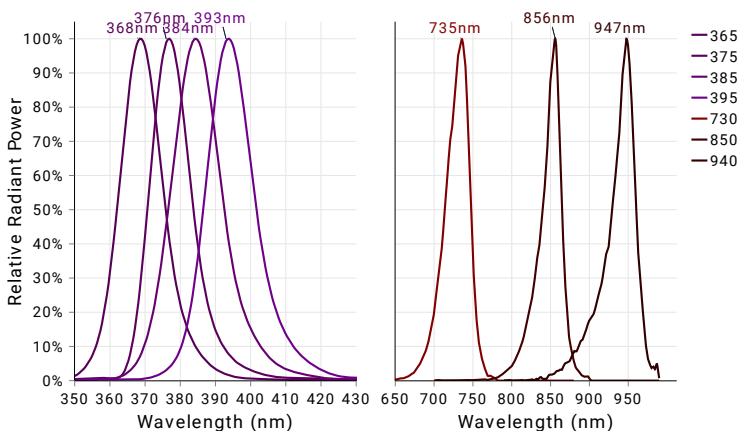


Visible color illumination consists of using wavelengths between 400-700 nm to either create or eliminate contrast on an inspection subject based on differences in a features color hue. When referring to a color wheel, simply remember the following: like colors reflect and brighten surfaces; conversely, opposing colors absorb and darken surfaces.

The RL113 Series is available in **405 nm, 455 nm, 470 nm, 505 nm, 530 nm, 590 nm, 625nm, and 660 nm** configurations.

For a more detailed look at the visible color spectral data, download the [csv file of the raw spectral values](#) and refer to our [Product Spectra Distribution Charts PDF](#).

### Non-Visible Spectral Profile



Near-infrared (NIR) imaging is a machine vision technique using longer wavelengths of 700-1000 nm to penetrate specific materials that are otherwise opaque to under the visible spectrum. When paired with a NIR camera, a NIR light can be ideal for applications such as fill level inspection, circuit board inspection, food safety inspection, and medical imaging.

The RL113 Series is available in **365 nm, 375 nm, 385 nm, 395 nm, 730 nm, 850 nm, 940 nm** configurations.

For a more detailed look at the NIR spectral data, download the [csv file of the raw spectral values](#) and refer to our [Product Spectra Distribution Charts PDF](#).

Disclaimer: The measurements provided above are for approximations only and may vary depending on the method of measurement and the specific configuration being measured.

## Optical Information - Continued

### Photobiological Risk Factors

| Group   | Description                                                                           | Affected Wavelengths (nm)         |
|---------|---------------------------------------------------------------------------------------|-----------------------------------|
| Exempt  | No Photobiological Hazard                                                             | 730, 850                          |
| Group 1 | No Photobiological hazard under normal behavioral limitations                         | 455, 470, 505, 530, 590, 625, 660 |
| Group 2 | Does not pose a hazard due to aversion response to bright light or thermal discomfort | 365, 375, 385, 395, 405, White    |

Advanced Illumination's lighting products have been tested and classified to IEC standards by accredited testing services. For more information on photobiological risk factors, please view the following PDF: <https://www.advancedillumination.com/wp-content/uploads/2019/04/IEC-040119.pdf>

### Cleaning Guidelines



To clean our light's optics, it is best to only clean when necessary. Dusting is always the first step in cleaning your optics. Wiping a dusty optic is like cleaning it with sandpaper. So always dust with a canned air duster or compressed and filtered air before wiping any optic. If the dusted optic has no visible stains after you dust it, then remember: "If it's not dirty, don't clean it." Avoid wiping optics when possible.

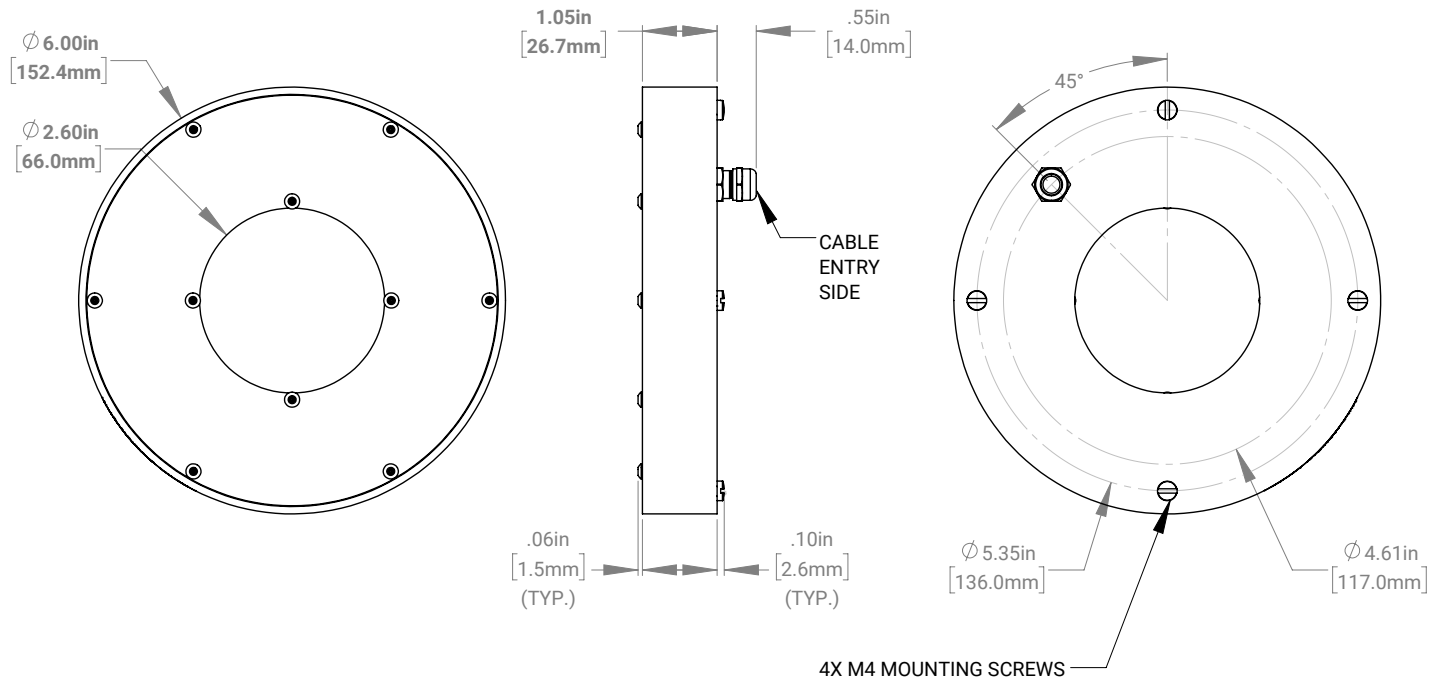
If dusting did not clean the lens or the lens has stains, use only de-ionized water and mild dish soap with a low lint cloth designed for optics to avoid damage to the optic by any harsh chemicals.

Polarizers, beam splitters and collimated films should never be wiped with any type of cloth or solvent, only use the air dusting method to clean these types of optics.

The aluminum housing can be wiped down when dusting is not a sufficient means to thoroughly clean.

**Mechanical Information**

**Installation Drawings**



For full installation drawings and complete CAD models of this non-sealed configuration, please visit the [downloads section of the product webpage](#).

## Electrical Information

### Power Requirements

#### Current Required for Power Supply Sizing, per 6" Unit Length

| Wavelengths | Configured w/ Voltage Drive (24) | Configured w/ Standard Controller (C1, C5, IC, I3, I3S) | Inline Controller Draw (IC, I3, I3S) |
|-------------|----------------------------------|---------------------------------------------------------|--------------------------------------|
| 365 nm      | 0.540A per sq. inch              | 0.540A per sq. inch                                     | 0.600A per sq. inch                  |
| 375 nm      | 0.540A per sq. inch              | 0.540A per sq. inch                                     | 0.600A per sq. inch                  |
| 385 nm      | 0.540A per sq. inch              | 0.540A per sq. inch                                     | 0.600A per sq. inch                  |
| 395 nm      | 0.540A per sq. inch              | 0.540A per sq. inch                                     | 0.600A per sq. inch                  |
| 455 nm      | 0.540A per sq. inch              | 0.810A per sq. inch                                     | 1.000A per sq. inch                  |
| 470 nm      | 0.540A per sq. inch              | 0.810A per sq. inch                                     | 1.000A per sq. inch                  |
| 505 nm      | 0.540A per sq. inch              | 0.810A per sq. inch                                     | 1.000A per sq. inch                  |
| 530 nm      | 0.540A per sq. inch              | 0.810A per sq. inch                                     | 1.000A per sq. inch                  |
| 590 nm      | 0.510A per sq. inch              | 0.640A per sq. inch                                     | 1.000A per sq. inch                  |
| 625 nm      | 0.510A per sq. inch              | 0.640A per sq. inch                                     | 1.000A per sq. inch                  |
| 660 nm      | 0.510A per sq. inch              | 0.640A per sq. inch                                     | 1.000A per sq. inch                  |
| 730 nm      | 0.510A per sq. inch              | 0.640A per sq. inch                                     | 1.000A per sq. inch                  |
| 850 nm      | 0.510A per sq. inch              | 0.800A per sq. inch                                     | 1.000A per sq. inch                  |
| 940 nm      | 0.510A per sq. inch              | 0.800A per sq. inch                                     | 1.000A per sq. inch                  |
| WHI         | 0.540A per sq. inch              | 0.810A per sq. inch                                     | 1.000A per sq. inch                  |

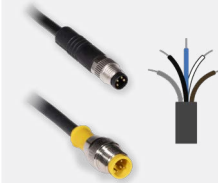
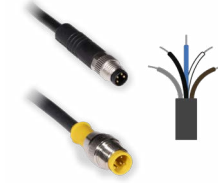
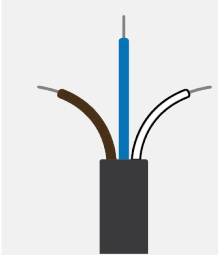
Note: All Advanced Illumination lights and controllers are nominally powered by 24V DC unless otherwise noted.  
Strobe overdriving with controller based models may require more current and voltage overhead.

### Control Options

| Controller Image                                                                    | Controller Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Connector Image                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | <p><b>DCS Single Output Controller - Compatible with C1 Configurations</b><br/>PN: DCS-100E</p> <p>The DCS-100E is a compact, din-rail mounted general-purpose external controller with one C1 output connector, wired with three channels. Capable of providing single channel control or multi-channel control for RGB compatible lights.</p> <p><b>Output Power:</b> 90 W Max Continuous, 540 W Max Pulsed (Overdrive Strobe)<br/> <b>Output Current:</b> 4.5A Max Continuous, 15 A Max Pulsed<br/> <b>I/Os:</b> 3 External Trigger Inputs<br/> <b>Interface:</b> 10/100 Ethernet with Software and browser-based GUIs. SDKs are also available.</p> <p>For more information about our DCS-100E, please <a href="#">visit the controller product page</a>.</p> |  |
|  | <p><b>DCS Triple Output Controller - Compatible with C1 Configurations</b><br/>PN: DCS-103E</p> <p>The DCS-103E is a din-rail mounted general-purpose multi-light controller with three C1 output connectors. Capable of driving three lights in sync or asynchronously.</p> <p><b>Output Power:</b> 30 W Max Continuous / Output, 180 W Max Pulsed / Output<br/> <b>Output Current:</b> 1.5A Max Continuous / Output, 5 A Max Pulsed / Output<br/> <b>I/Os:</b> 3 External Trigger Inputs<br/> <b>Interface:</b> 10/100 Ethernet with Software and browser-based GUIs. SDKs are also available.</p> <p>For more information about our DCS-103E, please <a href="#">visit the controller product page</a>.</p>                                                    |  |

**Electrical Information - Continued**

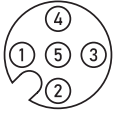
**Control Options - Continued**

| Controller Image                                                                    | Controller Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Connector Image                                                                       |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | <b>Pulsar 320E High Current Controller - Compatible with C5 Configuration</b><br><i>PN: Pulsar 320E</i><br><br>The Pulsar 320E is a high-power, dual output, pulse-only controller geared for overdriving driving lights at very short flash durations with very high current.<br><br><b>Output Power:</b> 2500 W Max Pulsed / Output<br><b>Output Current:</b> 50 A Max Pulsed / Output<br><b>I/Os:</b> 2 External Trigger Inputs<br><b>Interface:</b> 10/100 Ethernet with Software GUI. SDKs are also available.<br><br>For more information about our Pulsar 320E, please <a href="#">visit the controller product page</a> .                                                                                                                                                                                                  |    |
|                                                                                     | <b>Inline Controller - Continuous Only - IC Configurations</b><br><i>PN: N/A</i><br><br>The IC is an inline, cable-mounted continuous-only controller configured/wired directly for the ordered light head.<br><br><b>Output Power:</b> 25 W Max Continuous<br><b>Output Current:</b> 1.25 A Max Continuous<br><b>I/O:</b> 1 0-10 V Analog Dimming Input<br><b>Interface:</b> Direct Cable (flying leads or optional connector)<br><br>For more information about our IC Controller please <a href="#">visit the controller product page</a> .                                                                                                                                                                                                                                                                                     |    |
|  | <b>Inline Controller - Strobe and Continuous - I3 &amp; I3S Configurations</b><br><i>PN: N/A</i><br><br>The I3 and I3S are inline, cable-mounted continuous and pulse (overdrive strobe) capable controllers configured/wired directly for the ordered light head. When operated in pulsed mode, the I3 is a default-on device on power up, whereas the I3S is default-off, requiring a trigger to illuminate.<br><br><b>Output Power:</b> 25 W Max Continuous, 125 W Max Pulsed<br><b>Output Current:</b> 1.25 A Max Continuous, 8 A Max Pulsed (Load Dependent)<br><b>I/Os:</b> 1 Gated Trigger Signal, 1 0-10 V Analog Dimming Input<br><b>Interface:</b> Direct Cable (flying leads or optional connector)<br><br>For more information about our I3/I3S Controller, please <a href="#">visit the controller product page</a> . |  |
|                                                                                     | <b>24V Driver - Continuous Only - 24 Configurations</b><br><i>PN: N/A</i><br><br>24V option allows lights to operate continuous output with 24V connection and no additional controllers.<br><br><b>Modes:</b> Continuous, can be wired to some 3rd party controllers or external relays for gated operation<br><b>Interface:</b> Direct cable (flying leads or connector options)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |

## Electrical Information - Continued

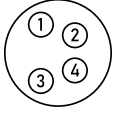
### Inline Control Option Wiring Information

#### Standard Flying Lead and Optional M12 Connector Pinout Functions

| Pin (M12) | Wire Color | 24V Functions | IC Functions         | I3/I3S Functions        | M12 Pinout                                                                                                       |
|-----------|------------|---------------|----------------------|-------------------------|------------------------------------------------------------------------------------------------------------------|
| 1         | BROWN      | 24V DC        | 24V DC               | 24V DC                  | <br>5-Position Male Connector |
| 2         | WHITE      | N/A           | 0-10V Analog Control | Reserved                |                                                                                                                  |
| 3         | BLUE       | DC GND        | DC GND               | DC GND                  |                                                                                                                  |
| 4         | BLACK      | N/A           | Gate Low             | PNP/Active High Trigger |                                                                                                                  |
| 5         | GRAY       | N/A           | N/A                  | 0-10V Analog Control    |                                                                                                                  |

The functions above are only applicable when ordering an 24, IC, I3, or I3s power configuration with our without an M12 connector. For more wiring information pertaining to strobing and dimming functionality, please [visit this webpage](#).

#### Optional M8 Connector Pinout Functions

| Pin (M8) | Wire Color | 24V Functions | IC Functions         | I3/I3S Functions    | M8 Pinout                                                                                                        |
|----------|------------|---------------|----------------------|---------------------|------------------------------------------------------------------------------------------------------------------|
| 1        | BROWN      | 24V DC        | 24V DC               | 24V DC              | <br>4-Position Male Connector |
| 2        | WHITE      | N/A           | 0-10V Analog Control | Reserved            |                                                                                                                  |
| 3        | BLUE       | DC GND        | DC GND               | DC GND              |                                                                                                                  |
| 4        | BLACK      | N/A           | Gate Low             | Active High Trigger |                                                                                                                  |

The functions above are only applicable when ordering an 24, IC, I3, or I3s power configuration with our without an M8 connector. For more wiring information pertaining to strobing and dimming functionality, please [visit this webpage](#).

## Accessories

| Category     | Accessory Image                                                                     | Accessory Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Supply |  | <b>24 Volt DC Power Supply</b><br>PN: PS24-TL<br><br>This convenient power source is a universal AC input switching power supply with a regulated output DC current. The power supply comes with an LED Power Indicator, tinned leads marked Positive (+) and Negative (-) and 2 WAGO connectors for simplified assembly.<br><br>For more information about our 24 Volt DC Power Supply, please <a href="#">visit this webpage</a> .                                                                                                              |
|              |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dimmer       |  | <b>Manual Dimming Accessory for the IC, I3 and I3s</b><br>PN: DCS-MP<br><br>The DCS-MP is a 30-position potentiometer, detented for precision level control and provides repeatable dimming with cable inline controllers. Features include DIN-rail mountable, a flip up cover to prevent accidental adjustments, spring clamp wiring terminal for flying leads or an M12 connector for use with the IC or I3/I3S Inline Controllers.<br><br>For more information about our Manual Dimming Accessory please <a href="#">visit this webpage</a> . |
|              |                                                                                     | <b>Manual Dimming Accessory for the IC</b><br>PN: MP-ICS<br><br>The MP-ICS is a dimmer which is designed for use on lights with the IC Inline Controller. This unit provides for 0 – 100% intensity control. It is NOT COMPATIBLE with LLI37, BLI38, LLI67, and BLI68 "IC" Lights or lights built with the "24v controller" option.<br><br>For more information about our Manual Dimming Accessory, please <a href="#">visit this webpage</a> .                                                                                                   |

**Accessories - Continued**

| Category          | Accessory Image                                                                     | Accessory Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extension Cable   |    | <p><b>DCS-100E/103E Extension Cable, Single Light Power Cable - C1 Configuration</b><br/>PN: LC-XX-S</p> <p>This extension cable was designed for applications requiring power cables longer than the standard 2 meters provided with Ai lights. This single light cable features a single male and single female 7 pin locking connector (C1) and can be purchased in 3 - 15-meter lengths.</p> <p>For more information about our DCS-100E/103E Extension Cable, Single Output, please <a href="#">visit this webpage</a>.</p>                                            |
| Extension Cable   |    | <p><b>DCS-100E/103E Extension Cable, Dual Light Power Cable - C1 Configuration</b><br/>PN: LC-XX-Y</p> <p>This extension cable was designed for applications requiring two identical lights to be powered through a single controller. These Y cables feature a single male and dual female 7 pin locking connectors (C1) and can be purchased in 3 - 15-meter lengths. See attached spec sheet for compatible light configuration.</p> <p>For more information about our DCS-100E/103E Extension Cable, Split Output, please <a href="#">visit this webpage</a>.</p>      |
| Extension Cable   |    | <p><b>Pulsar 320E Extension Cable - C5 Configuration</b><br/>PN: LC-XX-S-C5</p> <p>This extension cable was designed for applications requiring power cables longer than the standard 2 meters provided with Ai lights. This single light cable features a single male and single female Pulsar 320 connector (C5) and can be purchased in 3 - 15 meter lengths.</p> <p>For more information about our Pulsar 320E Extension Cable, please <a href="#">visit this webpage</a>.</p>                                                                                         |
| Adaptor Cable     |  | <p><b>Cognex Gen2 Inline Controller Adaptor Cable</b><br/>PN: AD-I3-CGX2</p> <p>This cable adaptor is for connecting I3/I3S configured lights with Cognex Gen2 Cameras, and comes with a male to female M12 connectors.</p> <p>For more information about our Cognex Gen2 Inline Controller Adaptor Cable, please <a href="#">visit this webpage</a>.</p>                                                                                                                                                                                                                  |
| Filters           |  | <p><b>Camera Lens Band Pass Filters</b><br/>PN: BPXXX-YYY</p> <p>Eliminating all but a narrow band of light (+/- 40nm) centered on the specified wavelength, band pass filters are used to enhance colors, or to stop unwanted ambient light from reaching the camera. Filtering can replace existing shrouds, simplifying the physical set up of an inspection site. Ai offers 635nm and 660nm band pass filters to fit several different lens sizes.</p> <p>For more information about our Camera Lens Band Pass Filters, please <a href="#">visit this webpage</a>.</p> |
| Mounting Brackets |  | <p><b>Mounting Brackets</b><br/>PN: LB</p> <p>For mounting purposes this product is compatible with Fastens to the M4 mounting channel for simplified mounting. Included in product purchase.</p> <p>For more information about our Mounting Brackets, please <a href="#">visit this webpage</a>.</p>                                                                                                                                                                                                                                                                      |

## Additional Information

### Warranty

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 FIVE YEARS from the original date of purchase. Should a defect develop during this period, customers may return the complete product, freight prepaid, to one of Ai's distributors or to the Ai factory. All product warranty returns require a Return Merchandise Authorization (RMA) number which is obtained from Customer Service. The RMA number must be clearly marked on the outside of the package. Ai will inspect the unit, and if a defect is found will, at our option, repair or replace the product without charge. Ai disclaims liability for any implied warranties, including implied warranties of "merchantability" and "fitness for a specific purpose." For products under warranty that have since been discontinued, Ai will make an effort to replace with equivalent parts; for circumstances that do not allow for equivalent replacement, Ai reserves the right to repair or replace these products with an updated version. Ai cannot be held responsible for the unauthorized or inappropriate use of its products. Any unauthorized repair or modifications will result in a voided warranty. No Liability for Consequential Damages: In no event shall Ai be liable for any consequential, special, incidental, or indirect damages of any kind arising from the sale or use of the products.

### Compliance

Our lighting products are designed and tested to meet CE, RoHS, and IEC standards. As a global ISO 9001 certified company, we understand the importance of compliance and perform accelerated testing on every product before shipment. For more information on our compliance standards, please see our compliance documentation here: <https://www.advancedillumination.com/services/compliance-statements/>

### 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 ET or send an email to [orders@advancedillumination.com](mailto:orders@advancedillumination.com).

### Company Information

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