

## Features

LED Ring Lights (in two sizes) for use with VE Series vision sensors



- Low-cost ring lights for VE Series vision sensors
- Solid-state LED matrix; select continuous or strobed operation via sensor software
- Direct connection to a VE Series vision sensor, or to an external power supply using 3 discrete wires
- Direct connection to a VE Series vision sensor if the sensor is powered by 24 V DC
- Mounts directly to a VE Series vision sensor using the included hardware

**IMPORTANT:** Read the following instructions before operating the light. Please download the complete VE Series Ring Lights technical documentation, available in multiple languages, from [www.bannerengineering.com](http://www.bannerengineering.com) for details on the proper use, applications, Warnings, and installation instructions of this device.

**IMPORTANT:** Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde [www.bannerengineering.com](http://www.bannerengineering.com) toda la documentación técnica de los VE Series Ring Lights, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

**IMPORTANT:** Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des VE Series Ring Lights sur notre site [www.bannerengineering.com](http://www.bannerengineering.com) pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

## Models

62 x 62 mm Models	80 x 80 mm Models	LED Color	Connection
LEDIRV62X62M	LEDIRV80X80M	Infrared, 940 nm	
LEDRRV62X62M	LEDRRV80X80M	Visible red, 630 nm	
LEDWRV62X62M	LEDWRV80X80M	White, all visible	
LEDBRV62X62M	LEDBRV80X80M	Visible blue, 464 nm to 475 nm	300 mm (12 in) cable with a 3-pin M8 male quick-disconnect connector The light connects directly to the VE Series smart cameras.
LEDGRV62X62M	LEDGRV80X80M	Visible green, 520 nm to 540 nm	

**NOTE:** Ring lights are not compatible with VELC..- Sealed Lens Covers. Use another lighting technique if an IP67 rating is needed for your application.

## Install the Ring Light

1. Attach the ring light bracket to the sides of the VE Series vision sensor using the provided hardware kit.
2. Connect the cable to the sensor.

## Specifications

### Supply Voltage and Current

Voltage is supplied by the VE Series vision sensors, if operating at 24 V DC (see sensor manual, p/n 191666)

**62 x 62 Models:** Infrared—24 V DC at 100 mA max.

**80 x 80 Models:** 24 V DC at 250 mA max.

**All other colors:** 24 V DC at 130 mA max.

See the electrical characteristics on the product label.

### Connection

300 mm (12 in) cable with a 3-pin M8 male quick-disconnect connector

### Construction

Cold-rolled steel with black gloss e-coat plating, acrylic window, four M3 x 6 mm screws are included to attach the ring light to the VE Series vision sensor

### Light Source

LED, see the Models table for wavelengths

### Strobe Type

Active low

**Useful Life**

10,000 hours (LED ON time). When operated within specifications, output decreases less than 30% after 10,000 hours and less than 50% (less than 40% for red and IR models) after 20,000 hours

**Operating Conditions**

0 °C to +50 °C (+32 °F to +122 °F)  
90% at +50 °C maximum relative humidity (non-condensing)

**Environmental Rating**

IP20 with a qualified lens properly installed

**Certifications**

Banner Engineering BV  
Park Lane, Culliganlaan 2F bus 3  
1831 Diegem, BELGIUM

**Required Overcurrent Protection**

**WARNING:** Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads < 24 AWG shall not be spliced.

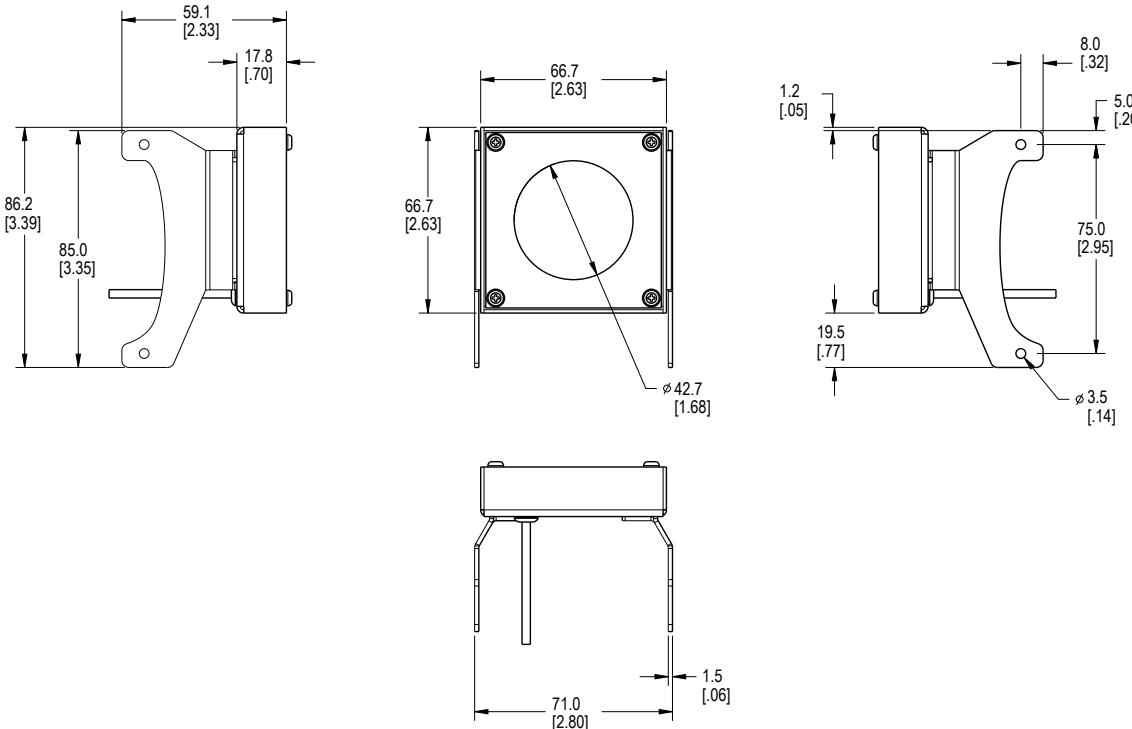
For additional product support, go to [www.bannerengineering.com](http://www.bannerengineering.com).

Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	2.0	30	0.5

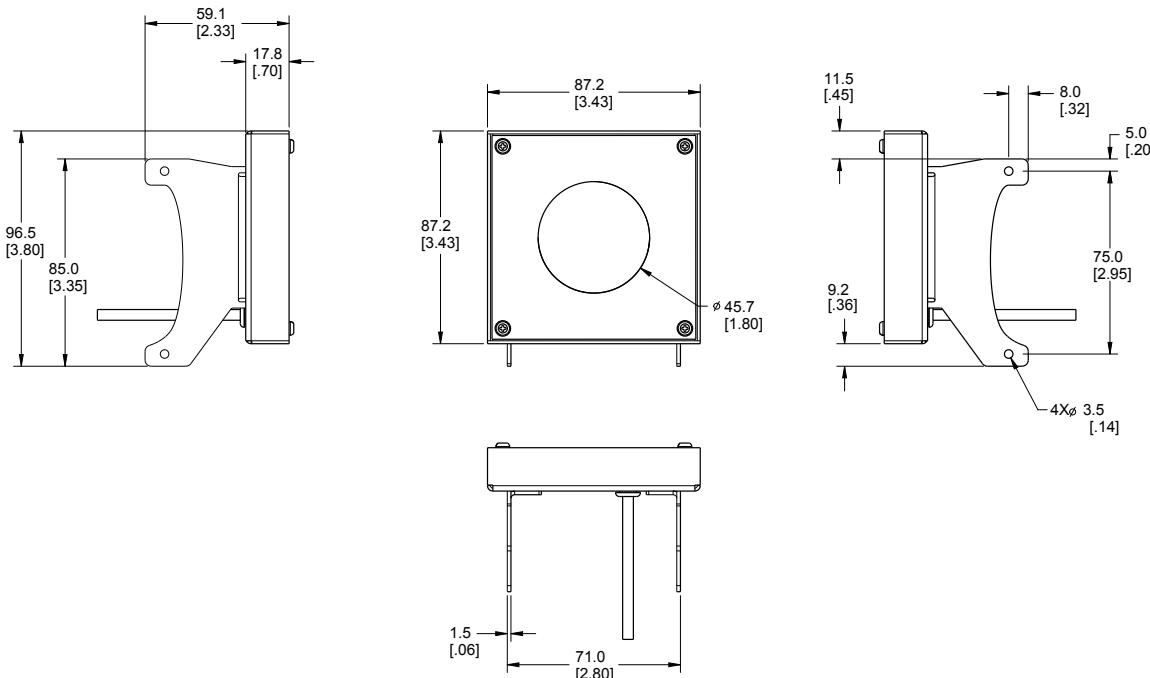
**Dimensions**

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.

62 x 62 mm Models



80 x 80 mm Models



## Clean the Light

Regularly remove dust, dirt, or fingerprints from the light source.

1. Blow off dust using anti-static compressed air.
2. If necessary, use a lens cloth and lens cleaner or window cleaner to wipe off remaining debris.

**IMPORTANT:** Do not use any other chemicals for cleaning the light source.

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For patent information, see [www.bannerengineering.com/patents](http://www.bannerengineering.com/patents).

## Mexican Importer

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