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LED..R..W Series Ring Lights

LED Ring Lights for use with PresencePLUS® Pro, Proll, and Mini Pro Sensors

Features



- Low-cost ring lights for PresencePLUS® Pro, Proll, and Mini Pro sensors. See Banner's Web site (www.bannerengineering.com/iknowlighting) for a complete lighting tutorial.
- Solid-state LED matrix; select continuous or strobed operation via sensor software.
- Direct connection to PresencePLUS Pro, Proll, Mini Pro, or to external power supply using 3 discrete wires
- Mounts directly to PresencePLUS Pro, Proll, Mini Pro sensors using included hardware

Models

| PresencePLUS Pro and Proll Sensor Models | | | | | |
|--|-------------|----------------------|--------------------------------|-----------------------|------------|
| Model* | | Color | Ambient Light Filter Kit | Polarizing Filter Kit | |
| 62 x 62 mm | 80 x 80 mm | | | 62 x 62 mm | 80 x 80 mm |
| LEDIR62X62W | LEDIR80X80W | Infrared, 940 nm | FLTI | — | — |
| LEDRR62X62W | LEDRR80X80W | Visible Red, 630 nm | FLTR (included with LEDR-RPFK) | LEDRRPFKS | LEDRRPFK |
| LEDWR62X62W | LEDWR80X80W | White, All Visible | FLTB or FLTG | | |
| LEDBR62X62W | LEDBR80X80W | Blue, 464 to 475 nm | FLTB | | |
| LEDGR62X62W | LEDGR80X80W | Green, 520 to 540 nm | FLTG | | |

*For 9 m (30') integral cable, add suffix "W/30" to the model number (e.g., LEDIR80X80W W/30).



| PresencePLUS Mini Pro Sensor Models | | | | |
|--|----------------------|--------------------------------------|------------------------------|-------------------|
| Models | Color | Ambient Light Filter Kit | Polarizing Filter Kit | |
| 62 x 62 mm | | | 62 x 62 mm | 80 x 80 mm |
| LEDIRM62X62W | Infrared, 940 nm | FLTI | — | — |
| LEDRRM62X62W | Visible Red, 630 nm | FLTR (included with LEDRRPFK) | LEDRRPFKS | LEDRRPFK |
| LEDWRM62X62W | White, All Visible | FLTB or FLTG | | |
| LEDBRM62X62W | Blue, 464 to 475 nm | FLTB | | |
| LEDGRM62X62W | Green, 520 to 540 nm | FLTG | | |

*For 9 m (30') integral cable, add suffix "**W/30**" to the model number (e.g., LEDIR80X80W W/30).

Specifications

| Feature | Description |
|-----------------------------------|--|
| Light Source | LED, see Models table above for wave lengths |
| Illumination | High-intensity ring light |
| Supply Voltage and Current | 62 x 62 Models: Infrared — 24V dc @ 100 mA max. 80 x 80 Models: 24V dc @ 250 mA max. All other colors — 24V dc @ 130 mA max. |
| Connections | PVC-jacketed 3-conductor 2 m (6.5') or 9 m (30') attached cable |
| Construction | Low-carbon steel with black zinc plating, acrylic window |
| Useful Life | 10,000 hours (LED ON time). When operated within specifications, output will decrease 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 | Temperature: 0° to +50° C (+32° to 122° F) Relative humidity: 90% at 50° C (non-condensing) max. |
| Cleaning Instructions | Regularly remove any 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. Do not use any other chemicals for cleaning. |


Wiring Table

| Light Wire | PresencePLUS Pro Controller Terminal Block | External Power Supply (Strobed) | External Power Supply (Continuous) |
|--------------|--|---------------------------------|------------------------------------|
| Brown | Pin 1 (+V*) | +V | +V |
| Blue | Pin 2 (-V*) | -V | -V |
| White | Pin 4 (strobe) | +5V dc to +24V dc OFF | -V |
| | | -V ON | |

* +V = 24V dc \pm 10%; -V = dc common

Installing the Ring Light

The ring light bracket attaches to the top of the *PresencePLUS* Pro, ProII or Mini Pro lens block, using the hardware kit provided.

 **Note:** Before installing this light it is recommended that an ambient light filter be installed behind the lens. The filter improves image quality by reducing unwanted ambient light.

Sensing Shiny Surfaces

To eliminate direct reflections without using polarizing filters, angle the sensor approximately 15° (or more) from perpendicular to a shiny surface.

Polarizing Kit

If it is necessary to mount the camera at a 90° angle to a shiny surface, the polarizing filter kit provides filters for both the LED ring light and sensor to reduce the negative effects of strong, direct light reflections. The red filter kit (FLTR) is included with the polarizing kit. When light colors other than red are used, discard the red filter in the polarizing kit and use the proper filter (see Models tables). The polarizing filters reduce the amount of light returned to the sensor.



Warranty: Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture found to be defective at the time it is returned to the factory during the warranty period. This warranty does not cover damage or liability for the improper application of Banner products. This warranty is in lieu of any other warranty either expressed or implied.