LED..R..W Series Ring Lights

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

Features

- Low-cost ring lights for *Presence*PLUS® Pro, ProII, 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 *Presence*PLUS Pro, ProII, Mini Pro, or to external power supply using 3 discrete wires
- Mounts directly to *Presence*PLUS Pro, ProII, Mini Pro sensors using included hardware

Models

***Presence*PLUS Pro and ProII 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).

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*Presence*PLUS 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.

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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 ± 10%; -V = dc common

Installing the Ring Light

The ring light bracket attaches to the top of the *Presence*PLUS 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.

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