

		62 x 62 & 80 x 80 mm LED Ring Lights	70 mm High-Intensity LED Ring Lights	62 x 62 & 80 x 80 mm LED Area Lights	70 mm High-Intensity LED Area Lights	70 x 70 & 85 x 220 mm LED Backlights			
Page		386	386	388	388	390			
Color (wavelength)	Red	630 nm	625 nm	62 x 62 mm: 630 nm 80 x 80 mm: 660 nm	625 nm	660 nm			
	White	5500 K	5500 K	5500 K	5500 K	—			
	Blue	464 - 475 nm	470 nm	62 x 62 mm: 464-475 nm 80 x 80 mm: 470 nm	470 nm	—			
	Green	520 - 540 nm	530 nm	62 x 62 mm: 520-540 nm 80 x 80 mm: 525 nm	530 nm	—			
	Infrared	940 nm	850 nm	62 x 62 mm: 940 nm 80 x 80 mm: 850 nm	850 nm	940 nm			
Supply Voltage & Current		Operating Voltage	24V dc ± 10%	24V dc ± 10%	24V dc ± 10%	24V dc ± 10%			
		Strobe Voltage	5V dc ± 10% @ 10 mA (Active Low)	5 - 24V dc (Active High or Low)	5V dc ± 10% @ 10 mA (Active Low)	5 - 24V dc (Active High or Low)	5V dc ± 10% @ 10 mA (Active Low)		
		Current draw at Full Intensity	62 x 62 mm: @ 100 mA max 80 x 80 mm: @ 180 mA max	350 mA max	62 x 62 mm: @ 150 mA max 80 x 80 mm: @ 250 mA max	350 mA max	70 x 70 mm: @ 250 mA max 85 x 220 mm: @ 500 mA max		
All others	62 x 62 mm: @ 130 mA max 80 x 80 mm: @ 250 mA max	62 x 62 mm: @ 200 mA max 80 x 80 mm: @ 250 mA max							
Construction		Housing	Steel with black zinc plating	Black anodized aluminum	Steel with black zinc plating	Black Anodized Aluminum Nickel-plated aluminum or 316 Stainless Steel	Steel with black zinc plating		
		Window	Clear Acrylic	Clear Diffused Acrylic	Clear Acrylic	Clear Diffused Acrylic	Clear Acrylic, Clear Glass or Clear Diffused Acrylic	White Acrylic	
		Rating	IP20; NEMA 1	IP50; NEMA 2	IP40; NEMA 1	IP50; NEMA 2	IP68; NEMA 4X	IP40; NEMA 1	
Connection		Model number suffix	M*	0.3 m 3-pin pigtail Pico QD	0.3 m 3-pin pigtail Pico QD	2 m 3-pin pigtail Pico QD	2 m 3-pin pigtail Pico QD	—	2 m 3-pin pigtail Pico QD
			W or Q†	2 m or 9 m 3-conductor attached cable with flying leads	5-pin 0.15 m pigtail Euro QD	2 m or 9 m 3-conductor attached cable with flying leads	0.15 m 5-pin pigtail Euro QD	5-pin Integral Euro QD	2 m or 9 m 3-conductor attached cable with flying leads
Useful Life (LED ON time) Hours (Strobing will increase life)		20,000	50,000	20,000	50,000	20,000			
Operating Temperature		0° to +50° C	0° to +50° C	0° to +50° C	0° to +50° C	0° to +50° C			
Effective Range (at Full Intensity)	Minimum (Clear)	—	—	—	10"	—			
	Maximum (Clear)	—	—	—	10'	—			
	Minimum (Clear Diffuse)	3"	6"	3"	5"	—			
	Maximum (Clear Diffuse)	62 mm: 12" 80 mm: 20"	4'	62 mm: 12" 80 mm: 20"	4'	—			

* Suffix M, W or Q added to model number denotes connection type.

** Clear window model light patterns are slightly more intense and smaller than diffuse models.

† IP68-rated models are only available in lengths of 290 and 580 mm.

75x150, 150x150, 225x150 & 300x150 mm LED Backlights	290, 435, 580, 870 & 1160 mm LED Linear Array Lights†	50 & 100 mm LED On-Axis Lights	150 mm LED Low-Angle Ring Lights	LED Spot Lights	High-Frequency Fluorescent Tubular Lights
390	391	392	392	393	394
633 nm	620-630 nm	630 nm	640 nm	627 nm	—
6500 K	5000-8300 K	5500 K	—	5500 K	4100 K
469 nm	465-485 nm	470 nm	—	470 nm	—
525 nm	520-530 nm	530 nm	—	530 nm	—
850 nm	850 nm	880 nm	880 nm	—	—
24V dc ± 10%	IP50: 24V dc ± 10% IP68: 24V dc ± 10%	24V dc ± 10%	24V dc ± 10%	10-30V dc	24V dc, 110V ac, 220V ac or 120/277V ac
5 - 24V dc (Active High or Low)	5 - 24V dc (Active High or Low)	5V dc ± 10% @ 10 mA (Active Low)	5V dc ± 10% @ 10 mA (Active Low)	5V dc ± 10% @ 10 mA (Low)	—
75 x 150 mm: @ 550 mA 150 x 150 mm: @ 1.1 A 225 x 150 mm: @ 1.65 A 300 x 150 mm: @ 2.2 A	290 mm: @ 1 A max 580 mm: @ 2 A max 870 mm: @ 3 A max 1160 mm: @ 4 A max	500 mA max.	350 mA max 500 mA max	10-30V dc @ 360 mA max	120V ac @ 0.15-0.26 A or 277V ac @ 0.07-0.11 A (Depending on bulb size/wattage)
Valox Plastic	Black Anodized Aluminum Nickel-plated aluminum or 316 Stainless Steel	Black anodized aluminum	Black anodized aluminum	Black anodized aluminum	Acrylic
White Acrylic	Clear Acrylic, Clear Glass or Clear Diffused Acrylic	Optical Glass with anti-reflective coating	—	Glass Lens	Clear Acrylic Tube
IP67, NEMA 6	IP50; NEMA 2 IP68; NEMA 4X	IP40; NEMA 1	IP0; NEMA 0	IP68; NEMA 4X	IP68; NEMA 4X
—	—	0.6 m 3-pin pigtail Pico QD	2 m 3-pin pigtail Pico QD	2 m 3-pin pigtail Pico QD	—
5-pin integral Euro QD	5-pin Integral Euro QD	—	2 m or 9 m 3-conductor attached cable with flying leads	2 m or 9 m 3-conductor attached cable with flying leads	2.5 m attached cable (unterminated or wall plug)
Green, White, Blue: 90,000 Red, Infrared: 100,000	50,000	20,000	20,000	50,000	—
0° to +50° C	0° to +50° C	0° to +50° C	0° to +50° C	0° to +50° C	-18 ° to +40 ° C
—	20" **	—	—	—	—
—	20" **	—	—	—	—
—	10" **	—	—	0"	—
—	7" **	—	—	18"	—

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- PresensePLUS
- LENSES**
- LIGHTING**
- Ring Lights
- Area Lights
- Backlights
- Linear Array Lights
- On-Axis Lights
- Low-Angle Lights
- Spot Lights
- Highly Diffused Lights
- Tubular Fluorescent Lights
- Structured Lights

Ring Lights

A ring light provides direct illumination over a small area. With the lens axis through the center opening of the ring light assembly, the ring light illuminates the area in front of the camera.

- Connects directly to PresencePLUS vision sensors or an external power supply
- Brightly illuminates small objects
- Mounts directly to the camera
- Includes models to withstand challenging industrial washdown environments (IP68 rated)



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LED Ring Lights (IP20), 24V dc

Connection	Pro Models [†]		Pro Mini Camera [†]	P4 Models [†]	
	80 x 80 mm	62 x 62 mm	62 x 62 mm	80 x 80 mm	62 x 62 mm
	2 m			0.3 m Threaded 3-pin Pico Pigtail QD*	
Red	LEDRR80X80W	LEDRR62X62W	LEDRRM62X62W	LEDRR80X80M	LEDRR62X62M
White	LEDWR80X80W	LEDWR62X62W	LEDWRM62X62W	LEDWR80X80M	LEDWR62X62M
Blue	LEDBR80X80W	LEDBR62X62W	LEDBRM62X62W	LEDBR80X80M	LEDBR62X62M
Green	LEDGR80X80W	LEDGR62X62W	LEDGRM62X62W	LEDGR80X80M	LEDGR62X62M
Infrared	LEDIR80X80W	LEDIR62X62W	LEDIRM62X62W	LEDIR80X80M	LEDIR62X62M



Connection options:

For 9 m cable, add suffix **W/30** to the 2 m model number (example, LEDRR80X80W W/30).
* Splitter cordsets available for powering two lights (see page 395).

[†] For replacement windows and diffusers (see page 396).



High-Intensity LED Ring Light (IP50) Model Key, 24V dc

Light	Color	Type of Light	Size	Housing Construction	Window	Relative Intensity	Intensity Adjustment	Connector Type
LED	R	R	70	X	D	4	X	M
		R = Ring Light	70 mm	X = Not sealed	D = Diffused clear plastic		X = Fixed P = Potentiometer	Q = 0.15 m 5-pin Euro Pigtail QD [†] M = 0.3 m 3-pin Pico Pigtail QD [*]
	B = Blue G = Green I = Infrared R = Red W = White							


* Pico QD model required for P4 sensors.
Pico QD models include a built-in mounting bracket for use with P4 sensors.
[†] Models require a mating cordset (see page 395).
Optional bracket SMBPPRH1 required for use with Pro cameras page 395).
Optional bracket SMBMPRH1 required for use with Pro Mini cameras (see page 395).



Sealed Pro LED Ring Lights (IP68), 24V dc



Color	Housing	Connection	90 mm Diameter Models [†]	
			Glass Window	Plastic Window
Red	Nickel-plated Aluminum	3-pin Pico QD	LEDRR90S-G	LEDRR90S-P
	Stainless Steel		LEDRR90SS-G	LEDRR90SS-P
White	Nickel-plated Aluminum		LEDWR90S-G	LEDWR90S-P
	Stainless Steel		LEDWR90SS-G	LEDWR90SS-P
Blue	Nickel-plated Aluminum		LEDBR90S-G	LEDBR90S-P
	Stainless Steel		LEDBR90SS-G	LEDBR90SS-P
Green	Nickel-plated Aluminum		LEDGR90S-G	LEDGR90S-P
	Stainless Steel		LEDGR90SS-G	LEDGR90SS-P
Infrared	Nickel-plated Aluminum		LEDIR90S-G	LEDIR90S-P
	Stainless Steel		LEDIR90SS-G	LEDIR90SS-P

 **Connection options:** Models requires a mating cordset (see page 395).

[†] Windows are factory replaceable, contact factory at 1-888-373-6767.

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Tubular
Fluorescent Lights
Structured Lights

Specialty Ring Lights

Size	Description	Models
100 mm dia.	110V ac Fluorescent	HFFW5100
	220V ac Fluorescent	HFFW5100A220
	110V ac UV Fluorescent (Blacklight Blue)	HFFBB



RFLBB UV fluorescent ring lamp replacement bulb, RFLW5100 fluorescent ring lamp replacement bulb.
NOTE: Specialty lights are not stocked and are non-returnable.