

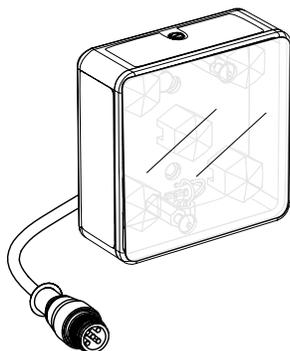
LED..A70XD5-..High-Intensity Area Light



Datasheet

For use with Banner Vision Systems

To view or download the latest technical information about this product, including specifications, dimensions, accessories, and wiring, see www.bannerengineering.com.



- Compact area light for Banner Vision Systems
- Five extremely bright LEDs for illumination of targets from 0.15 meters to beyond 2 meters
- Continuous or strobed operation
- Fixed or adjustable intensity, depending on model
- Maintenance-free, rugged construction
- Optically isolated strobe signal



Important: Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los LED..A70XD5-..High-Intensity Area Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

Models

| Model | | LED Color | Cable |
|-------------------|----------------------|-------------------------|---|
| Fixed Intensity | Adjustable Intensity | | |
| LEDRA70XD5-XQ | LEDRA70XD5-PQ | Red, 620 nm to 630 nm | 150 mm (6 in) pigtail with threaded 5-pin Euro-style connector Requires Euro-style mating cordset |
| LEDWA70XD5-XQ | LEDWA70XD5-PQ | White, 5000 K to 8300 K | |
| LEDBA70XD5-XQ | LEDBA70XD5-PQ | Blue, 465 nm to 485 nm | |
| LEDGA70XD5-XQ | LEDGA70XD5-PQ | Green, 520 nm to 535 nm | |
| LEDIA70XD5-XQ | LEDIA70XD5-PQ | Infrared, 850 nm | |
| LEDUV395A70XD5-XQ | LEDUV395A70XD5-PQ | UV, 395 nm | |
| LEDRA70XD5-XM | LEDRA70XD5-PM | Red, 620 nm to 630 nm | 2 m (6.5 ft) pigtail with threaded 3-pin Pico-style connector Connects directly to the P4 or VE sensor |
| LEDWA70XD5-XM | LEDWA70XD5-PM | White, 5000 K to 8300 K | |
| LEDBA70XD5-XM | LEDBA70XD5-PM | Blue, 465 nm to 485 nm | |
| LEDGA70XD5-XM | LEDGA70XD5-PM | Green, 520 nm to 535 nm | |
| LEDIA70XD5-XM | LEDIA70XD5-PM | Infrared, 850 nm | |
| LEDUV395A70XD5-XM | LEDUV395A70XD5-PM | UV, 395 nm | |

The following caution applies to UV 395 nm models:



CAUTION:

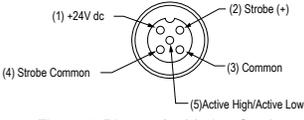
Risk Group 2: UV Emitted from this product.

Eye or skin irritation may result from exposure. Use appropriate shielding and eye protection. Risk Group 2 (RG 2) products generally do not pose a realistic optical hazard if aversion responses limit the exposure duration or where lengthy exposures are unrealistic.

- IEC 62471



Wiring

| Wire Purpose | Cable Wire Color ¹ | Continuous On Mode | Strobed Mode | PresencePlus Pro Controller Terminal Block |
|--|-------------------------------|--------------------|---|--|
| Power Wires | Brown (1) | +24 V dc | +24 V dc | Pin 01 ² |
| | Blue (3) | common | common | Pin 02 |
| Strobe Polarity Control | Gray (5) | open | Active Low: open Active High: connect to common (Blue wire) | Open — Active Low Pin 02 — Active High |
| Strobe Voltage Wires | White (2) | open | 0 V dc = ON (Active Low) +5 V dc to 24 V dc = OFF (Active Low) | Pin 04 |
| | Black (4) | open | 0 V dc = OFF (Active High) +5 V dc to 24 V dc = ON (Active High) | |
|  <p>Figure 1. Pinouts for Mating Cordsets</p> | | | | |

Light Intensity Adjustment

Adjust the light's intensity by turning the 270° Intensity potentiometer with a small flat-blade screwdriver. Apply power to the light and turn the potentiometer all the way clockwise for max. intensity. If the object to be sensed is too bright at max. intensity, turn the potentiometer down a little at a time, testing with the object, until the correct brightness is achieved.

Specifications

Supply Voltage and Current

Operating Voltage: 24 V DC $\pm 10\%$
Strobe Voltage: 5 V DC to 24 V DC at 15 mA maximum
Current Draw at Full Intensity: 500 mA max
 Built-in constant current regulator for LEDs
 Adjustable intensity control varies intensity for "P" models
 Use only with a suitable Class 2 power supply (UL) or SELV power supply (CE)
 See the electrical characteristics on the product label.

Light Source

Five high-intensity LEDs; see models table for wavelengths

Illumination

610 mm (24 in) diameter usable light pattern at 1 m (3.28 ft)

Strobe

Optically isolated

Connections

Integral 5-pin M12/Euro-style male quick disconnect, accessory cordset required

Light Characteristics

Values shown are typical at 25 °C.

| | Lumens | | | | mWatts | |
|---------|------------|-------|-----|------|--------|-------|
| | Cool White | Green | Red | Blue | IR | UV395 |
| LEDxA70 | 555 | 435 | 215 | 160 | 1130 | 610 |

Construction

Enclosure rating: IP50 (when mounted using the two ¼ - 20 holes in back)
Housing: aluminum, black anodized
Window: acrylic, clear with frosted diffusing surface on inside

Useful Life

When operated within specifications, output will decrease less than 30% after 50,000 hours for visible and IR Models; 20,000 hours for UV models

Operating Conditions

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

Certifications

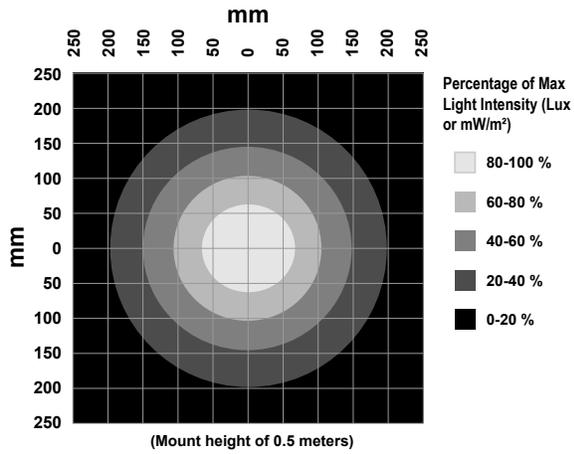


¹ For Banner-supplied wire.

² When connecting the light to a PresencePLUS Pro controller terminal block, the controller supply must be 24 V dc $\pm 10\%$.

Optical Data

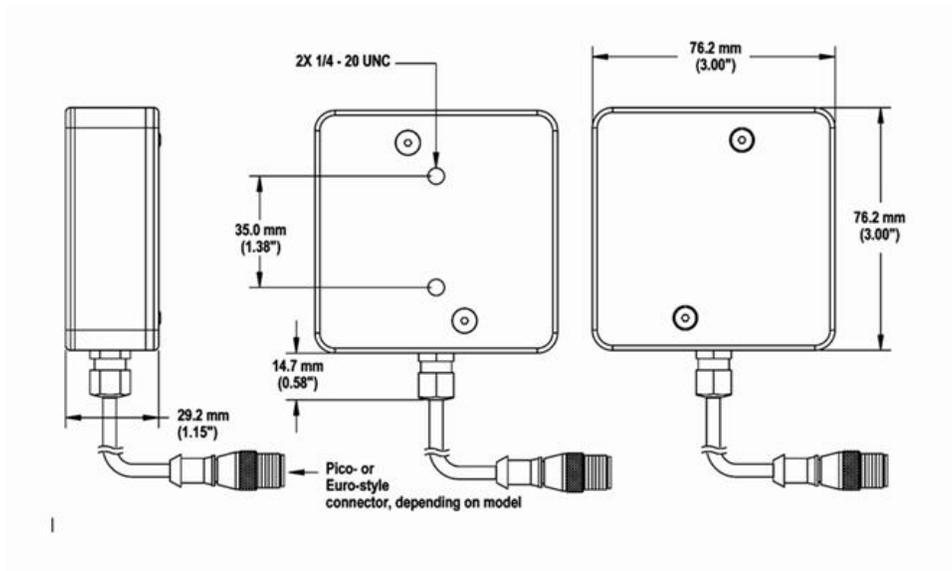
Area Light Diffuse Window
Isolux Pattern



Values shown are typical at 25 °C.

| Distance (m) | Max Center Beam Lux (lux) | | | | Max Center Beam Irradiance (mW/m ²) | | Beam Width (m) | |
|--------------|---------------------------|--------|-------|-------|---|--------|-------------------------|---------------------------|
| | Cool White | Green | Red | Blue | IR | UV395 | Vertical (Spread 29.1°) | Horizontal (Spread 30.7°) |
| 0.25 | 22,990 | 18,019 | 8,906 | 6,628 | 46,808 | 25,268 | 0.13 | 0.14 |
| 0.50 | 7,030 | 5,510 | 2,723 | 2,027 | 14,313 | 7,727 | 0.26 | 0.27 |
| 1.00 | 1,850 | 1,450 | 717 | 533 | 3,767 | 2,033 | 0.52 | 0.55 |

Dimensions



Front View

Back View

All measurements are listed in millimeters [inches], unless noted otherwise.

Accessories

Cordsets

| 5-Pin Threaded M12/Euro-Style Cordsets—Single Ended | | | | |
|---|----------------|----------|------------|-----------------|
| Model | Length | Style | Dimensions | Pinout (Female) |
| MQDC20-506 | 1.83 m (6 ft) | Straight | | |
| MQDC20-515 | 4.57 m (15 ft) | | | |
| MQDC20-530 | 9.14 m (30 ft) | | | |

Bracket

SMBAMS70A

- Zinc-plated cold rolled steel right-angle bracket
- Articulated slots for 90+ degrees rotation
- two 1/4-20 screws included



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For patent information, see www.bannerengineering.com/patents.

Mexican Importer

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