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# Blue Line ISM-BLA1-CC Color Camera Modules



- ▶ Color charge-coupled device (CCD) camera with 3 lx light sensitivity
- ▶ NTSC or PAL video format
- ▶ 330 lines of horizontal resolution
- ▶ The camera can be left on or controlled by the detector alarm
- ▶ Selectable (Form A or Form B) alarm relay outputs
- ▶ Includes video cable with BNC connector

The ISM-BLA1-CC color camera modules attach to the Blue Line detectors. These camera modules, available in either NTSC or PAL formats, are small, easy-to-mount, and attractive. Set the camera to run continuously, or to run for either 15 sec or 90 sec when activated by the detector alarm.

The ISM-BLA1-CC-N camera module provides an NTSC video signal of 512 (H) x 492 (V) pixels with electronic shutter speeds from 1/60 sec to 1/100000 sec.

The ISM-BLA1-CC-P camera module provides a PAL video signal of 512 (H) x 582 (V) effective pixels with electronic shutter speeds from 1/50 sec to 1/100000 sec.

## Certifications and Approvals

### ISM-BLA1-CC-N

Country	Certification/Listing Number
US	UL ANSR: Intrusion Detection Units (UL639)

### ISM-BLA1-CC-P




Country	Certification/Listing Number
Europe	CE Complies with EN50131-1 grade 2
Czech Republic	NBU

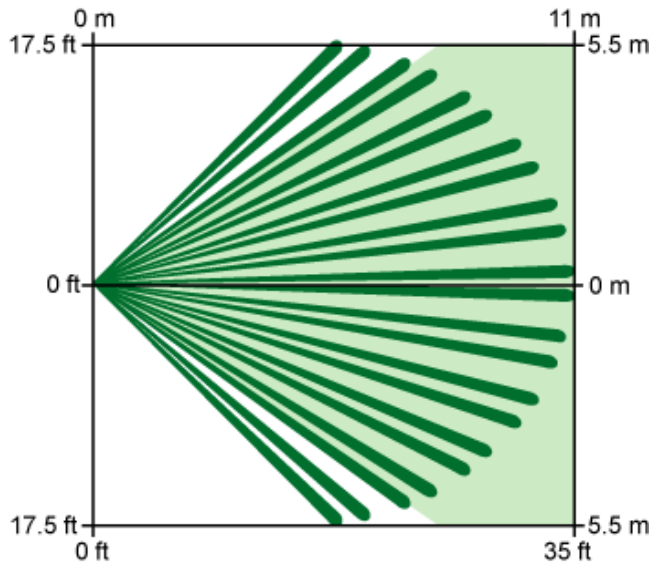
## Installation/Configuration Notes

### Camera Viewable Area

The camera's field of view is 66° horizontal and 53° vertical. The resulting viewable area depends on the installation height. An example for a 2.3 m (7.5 ft) installation height is shown below:

### Viewable Area Legend

-  PIR coverage pattern
-  Look-down zone
-  Camera's viewable area



Top View



Side View

**Note** The passive-infrared (PIR) coverage patterns and look-down zone depend on the specific detector used. Refer to the detector's datasheet.

**Note** A pair of masks are provided to reduce the detector's PIR coverage area since that area is larger than the camera's field of view.

### Power Considerations

#### Power Limits

Input power must be provided by an Approved Limited Power Source. All outputs must be connected to SELV (safety extra-low voltage) circuits only.

#### Standby Power

This detector has no internal standby battery. *For UL Listed product installations, 4 hr (20 mAh with camera off, 460 mAh with camera on) of standby power must be supplied by the control unit or by a UL Listed burglary power supply.*

#### Video Connection

A video cable with a BNC connector at one end is supplied. Connect this cable to up to 152 m (500 ft) of 75  $\Omega$  RG59/U or similar coaxial cable.

### Parts Included

Quant.	Component
1	Camera module
1	Mask
1	Hardware pack
1	Literature pack

## Technical Specifications

### Environmental Considerations

Complies with EN50131 Environmental Class II, Security Grade 2

Relative Humidity: 0 to 85%, non-condensing

Temperature (operating): -10°C to +49°C (+14°F to +120°F) *For UL Listed product installations, 0°C to +49°C (+32°F to +120°F)*

### Input

Alarm: 5 V normally from sensor digital alarm output, ground for 4 sec during alarm.

### Mechanical Properties

Color: White

Dimensions: 5.6 cm x 6.1 cm x 4.8 cm  
(2.2 in. x 2.4 in. x 1.9 in.)

Material: High-impact ABS plastic

Radio Frequency Interference (RFI) Immunity: No alarm or setup on critical frequencies in the range from 26 MHz to 2 GHz at field strengths less than 30V/m.

### Outputs

Relay Timer: Selectable latch time of 15 sec or 90 sec.

Timed Relay: Solid state, selectable supervised Form A normally-closed (NC) or unsupervised Form B normally-open (NO) contacts rated for 125 mA, 28 VDC, 3 W.

Tamper: Normally-closed (NC) contacts (with cover on) rated at 28 VDC, 125 mA maximum. Connect to detector tamper circuit.

### Power Requirements

Current (Alarm): 115 mA when camera is on

Current (Standby): 5 mA maximum at 12 VDC

Voltage (Operating): 12 VDC nominal

### Video

CCD: 8.5 mm (1/3-inch) color with an electronic shutter

Field of view: 66° horizontal, 53° vertical

Lens: 3.6 mm fixed focal length lens

Resolution (horizontal): 330 lines minimum at center of picture

Scanning System: 2:1 interlaced

Sensitivity: <3 lx

Signal: 75 Ω (NTSC or PAL)

Signal to Noise Ratio: 45 dB minimum

## Ordering Information

Blue Line ISM-BLA1-CC Color Camera Module (NTSC format) ISM-BLA1-CC-N

Blue Line ISM-BLA1-CC Color Camera Module (PAL format) ISM-BLA1-CC-P

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