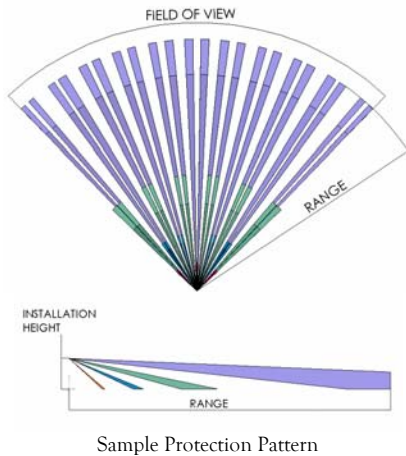


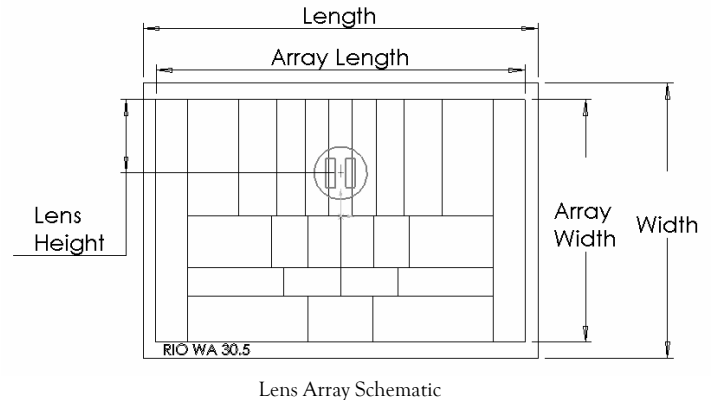
## Passive Infrared (PIR) Lens Arrays

### Uniform Sensitivity PIR Lens

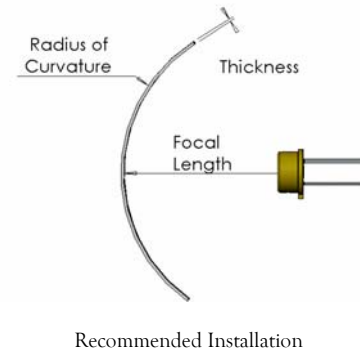
Our PIR lens arrays are Fresnel lens arrays designed for Passive Infrared sensor applications. Our optical surfaces are based upon Reflexite's proprietary lens design, which increases lens sensitivity for PIR sensor applications. These arrays can be used in applications involving security, lighting controls, and environmental controls. They are designed for uniform sensitivity, which means that each zone has approximately the same sensitivity as the others, and the total electronic gain of the sensor can be minimized. They feature a short focal length that makes them well suited for compact, low profile sensors.



Sample Protection Pattern



Lens Array Schematic



Recommended Installation

## Specifications

Product	Part Number	Focal Length	Radius of Curvature	Array Length	Array Width	Range	Field of View	Installation Height	
WA30.5	Wide Angle Array	IO8905	30.5 mm	30 - 60 mm	57 mm	37.6 mm	21 m	90°	2.4 - 3 m
DWA 30.5	Dense Pattern Array	IO8906	30.5 mm	30 - 60 mm	57 mm	37.6 mm	13 m	110°	2.1 - 3 m
EWA 30.5	Extra Wide Array	IO8907	30.5 mm	30 - 60 mm	57 mm	37.6 mm	18 m	130°	2.4 - 3 m
WA 23	Short Focal Length Array	IO8908	23 mm	23 - 45 mm	57 mm	37.6 mm	18 m	90°	2.4 - 3 m
WA 16.5	Short Focal Length Array	IO8904	16.5 mm	16 - 25 mm	41 mm	19.4 mm	15.2 m	120°	2.1 - 3 m
PI 30.5	Pet Immunity Array	IO8902	30.5 mm	30 - 60 mm	55 mm	35 mm	12.2 m	90°	2.1 - 2.4 m
WA 30.5-110	Wide Angle Array	IO8916	30.5 mm	30 - 60 mm	56 mm	40 mm	23 m	110°	2.4 - 3 m

Material: HDPE - Natural, 0.6 mm thick

Specification sheets for each product are available by request or  
 Visit our web site: [www.instrumentation-optics.com](http://www.instrumentation-optics.com)

In addition, all PIR arrays are:

- Optimized for dual element pyroelectric devices
- White light immunity to reduce false triggers
- UV resistant for outdoor applications
- Designed for uniform sensitivity to reduce electronic gain