

HB-208 HDIR™**

SUREN

Hi-Bay PIR Occupancy Sensor



Designed for Hi-Bay Application

Hi-Bay Detection

- ❑ **8-Element Pyroelectric IR Detector**
- ❑ **High-efficiency Spherical Lens**
 - Maximum optical signal strength
 - Attractive appearance
- ❑ **152-field-of-view** Lens/Detector System
 - Staggered layout for best detection
 - Alternating polarity for strong signals
- ❑ **Stable and Reliable Sensor Electronics**
 - 100% surface-mount components
 - No aluminum electrolytic capacitors

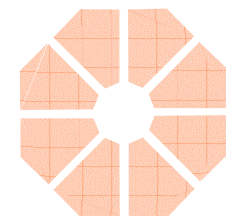
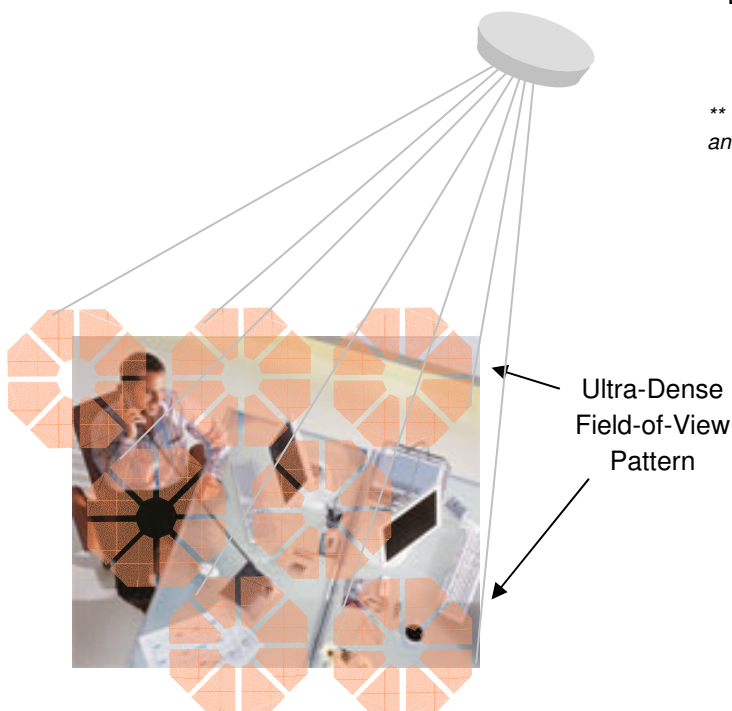
Lighting/comfort control

- ❑ Warehouse
- ❑ Carpark
- ❑ Commercial Building

False Detection Immunity

- ❑ **Air-Draft Protected Opto-electronics**
 - Sealed optics around detector
 - Detector-lead cover
- ❑ **Two-Stage White Light Protection**
 - Clear bug guard – less light concentration
 - Large white-light filter on detector window

*** U.S Pat. 7,579,595; continuation-in-part and additional patents pending worldwide.*

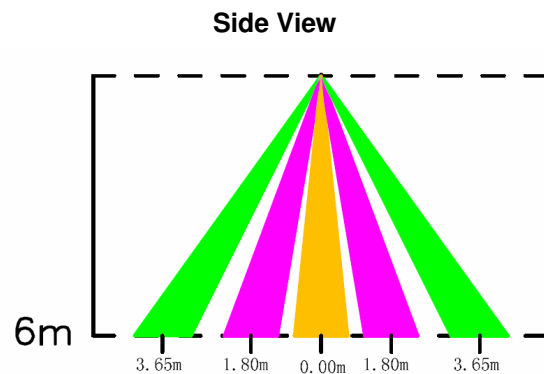
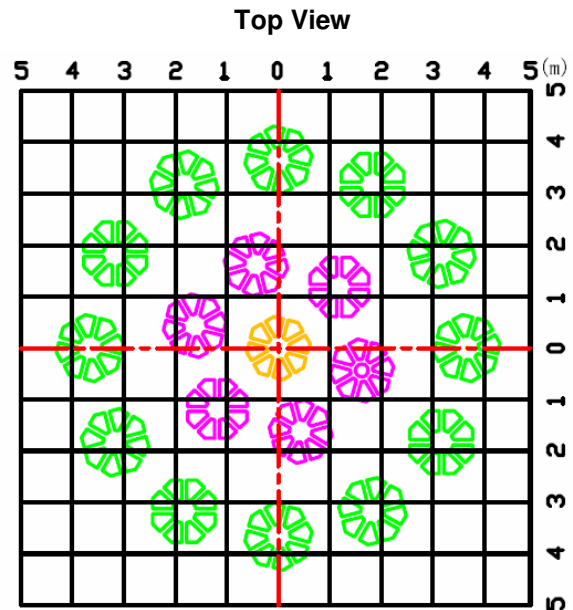


8-Element Detector
for High Definition

Product Features

- ❑ **HDIR™** 8-Element IR Detector** and patent-pending DSP detection work together for motion detection within a 8-meter circle at 6m height.
- ❑ Small-signal relay output to control external contactors
- ❑ Adjustable 5s-30m setting for relay "ON" time
- ❑ Sunset sensor to enable lighting only when ambient light is low
- ❑ Wide operating temperature range (-40°C to + 55°C)
- ❑ Microcontroller temperature analysis for best summertime detection
- ❑ Tightly-mated bug guard to protect the sensor optics from insects, spiders and dust
- ❑ Selectable detection sensitivity (standard/verified) for different environmental requirements
- ❑ Spring clips for mounting in drop ceiling
- ❑ Trim ring for mounting on solid ceiling

Optical View Pattern



Specifications

Relay:	Solid-state, 30V, 50mA		
Detection Range:	8m circle with sensor mounted at 12m height.		
Power Supply:	8-16 Vdc / 20 mA		
RF Immunity:	20 V/m 10 – 1000 MHz; 10 V/m 1000-2000 MHz		
Sensitivity:	1-event or 2-event		
Temperature Range:	-40°C to +55°C		
Height range:	4 - 6.0 m		
Housing:	High-impact ABS		
Dimensions:	38mm overall height; 93mm diameter; 25mm below drop ceiling		
Optical fields-of-view	Mid Range	Short Range	Look-down
	96	40	8

All specifications are subject to change without notice.