

M-TEC™ Occupancy Sensor Patented **HDIR™** + Ultrasonic



*The Key to Lighting
Comfort and Energy Savings*

Controls

- Delayed-Off timer (30 sec – 30 min)
- Ambient light threshold (20 – 320 Lux)
- Infra red and ultrasonic range
- Single/dual-technology (PIR/ultrasonic/both)
- Sunset sensor override
- Normal occupancy / walk-thru mode
- Test mode. Automatic reset to normal operation after 15 minutes
- LED indicators

Accessories

- Brackets, screws and wall plugs for surface mount in solid ceiling
- Spring clips for flush mount in drop ceiling
- Infra red zone mask

CDP-1808 embodies the technology of SUREN's proprietary 8-element pyros and ultrasonic motion detection into one easy-to-install occupancy sensor.

Mounted at a height of 2.4m, this sensor provides full circular 8m diameter detection for minor motion, e.g. hand movement of people in that area.


CDL-1808 can be surface mounted or flush mounted for an attractive, un-obstructive appearance.

The sensor is fitted with a high-capacity relay that is capable of driving a wide range of load types, including lighting or HVAC devices.

Infra Red Motion Detection

- 360 degree coverage
- Detection range 8m diameter

HDIR™ – High Definition IR

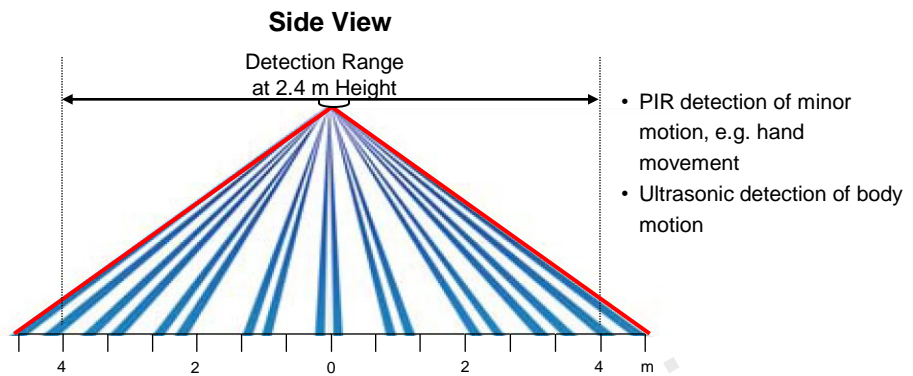
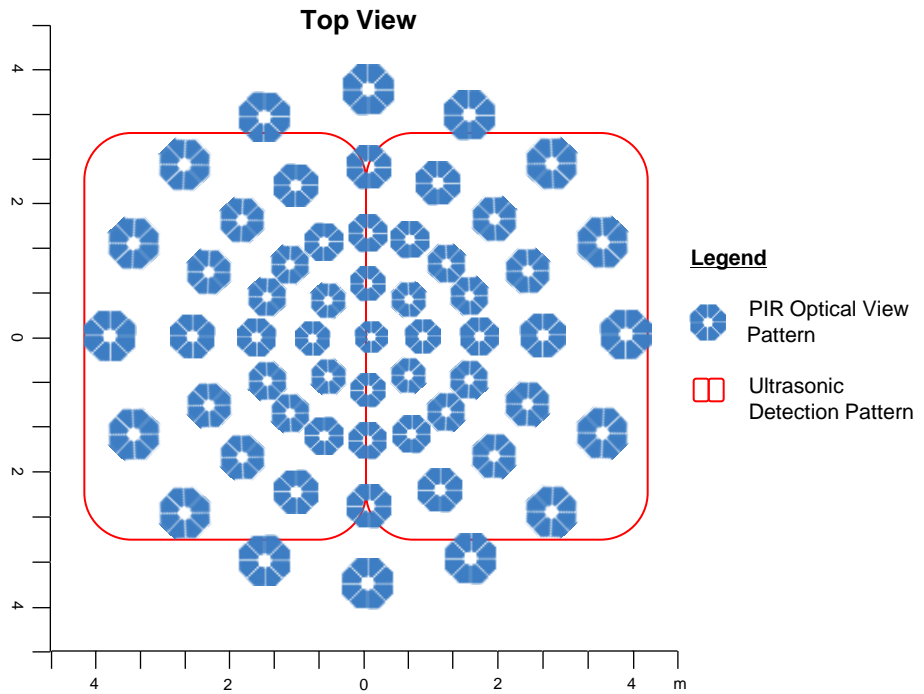
- Proprietary 8-element pyros
- 864 optical view patterns
- Each cluster of 8-segment pattern captures very fine body movement 
- Patented technology
- Alternating polarity for stronger signals
- Multi-level segmented lens for better detection

Ultrasonic Motion Detection

- Dual transceivers
- Detection area 45m²
- Does not require line of sight
- Sensitive to air-flow around ventilation outlet and inanimate moving object

Smart Features

- **Sunset sensor** (photocell) that enables lighting only when ambient light is low
- **Detection Sequence Logic (DSL)** that uses intelligent processing to turn light on when major motion is detected and to keep the light on with only minor motion
- Automatically adapts to different occupancy patterns including normal occupancy and walk-thru modes
- In normal occupancy mode, light is turned off after some delay after the last person leaves the area
- In walk-thru mode, light is turned off shortly after person leaves the area



Specifications

Supply Voltage	85 – 277 V AC	Power Consumption	3.08 W	
Output Voltage	85 – 277 V AC	Output Current	5 A	
PIR Detection Range	8 m diameter mounted at 2.4 m height			
Ultrasonic Detection Range	45 m ²			
Operating Temperature Range	-40° C to 55° C			
Recommended Mounting Height	2.3 m to 4 m			
Housing	CE	High Impact ABS		
Dimension	Overall Height	56 mm	Diameter	110 mm
Approvals				
Patents	US Patent 7,579,595 (Additional patents pending worldwide)			
Optical View Pattern	Long Range	Mid Range	Short Range	Look Down
	192	384	256	32

All specifications are subject to change without notice.