

Dual-Tech Detector



UT-964i - PIR+ Ultrasonic sensing technology

➤ **Feature:**

1. Both PIR & Ultrasonic technology in the detector to minimize the risk of false triggering.
2. High performance relay is built in for controlling all kinds of lamps.
3. Versatile triggering methods, either only one technology (PIR & US) or both technologies (PIR and US) can be chosen for users flexible utilization.
4. Considerate air current compensation function is provided to reduce the false triggering due to interruption of air flow.
5. Versatile mounting methods of ceiling surface mount, ceiling flush mount with spring clamp as well as ceiling flush mount with Europe junction box are feasible.
6. Can be connected with slave detector to enlarge the detection coverage for wide space application.
7. The IR remote control is available for quick and convenient setting (Note: IR remote control is for optional purchase)
8. Applications: Partitioned open plan office, classroom, large conference room, multi-stall restroom.

➤ **Specification**

1. Rated Voltage :- 220-240v, 50/60 Hz
2. Load -
For lighting (with jumper wire)
 - Incandescent lamp : Max 2000w
 - Ac Halogen lamp : Max 1000w
 - LV Halogen lamp : Max 1000 VA / 600w (traditional)
Max 1000 VA / 900w (Electronics)
 - Fluorescent lamp : Max 900 VA / 100w
Max 1000 VA / 600w (Uncompensated)
 - LED lamp : Max 400w

- Energy saving lamp : Max 600 VA / 400w (include CFL and PL lamp)

For HVAC (remote Jumper wire):

- Max 10A for 250 VAC
 - Max 5A for 30 VDC
 - Max 3A for 250 VAC
3. Detection Angle : 360°
 4. Detection range (H=2.5m):
 - PIR 360°, Circular adjustable up to 8m.
 - US 360°
 5. Auto off time adjustment : Adjustable from approx. 5 sec to 30 min. Test of 1 sec.
 6. Lux adjustment ; Adjustable from approx. 10 lux to 1000 lux.
 7. Acc ON/OFF “ Select ON for activating or select OFF for deactivating air current compensation.
 8. Triggering methods : PIR + US, PIR only, US only, PIR or US
 9. Ultrasonic sensor frequency : 32 KHz
 10. Operating temperature : 0°C to 45°C
 11. Environmental protection : Class II, IP20.

➤ **Function of PIR + US :**

- If precise detection is needed choose triggering method which can reduce the false triggering problem. For example, in a classroom, an open-plan office, etc.

➤ **Function of PIR / US :**

- When there is high level of minor motion or obstacle (Furniture or partitions) existing in the monitored space or it is a multi-stall space. For example- multi-stall public restroom, an office with partitions.

➤ **NOTE :**

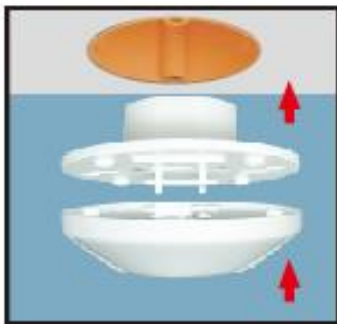
1. Ultrasonic sensor can't detect Sound.

2. If the room isn't blocked completely (like a wall seal from floor to ceiling), Ultrasonic sensor can detect a moving object.

For example 1 : A screen can't obstruct Ultrasonic detection function.

For example 2 : If the door of the room is open, the ultrasonics sensor can detect a moving object outside of the room.

Highlight:



Ceiling flush mount with European junction box



Ceiling flush mount with SP-96 power box cap



Ceiling surface mount with JB-46 junction box



User-friendly and adjustable
Lux, Meter, triggering method & ACC knobs for use's flexible and easy adjustment



IR remote control for easy and convenient setting on detector (optional purchase)



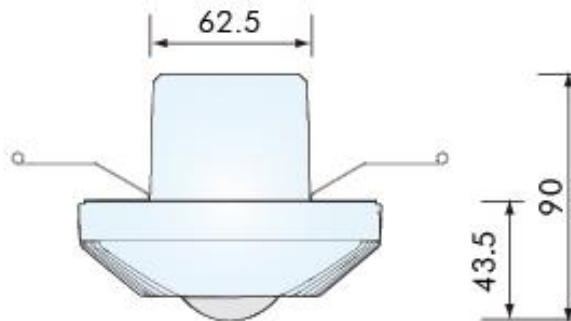
Ultrasonic sensor is able to detect small movement and is more sensitive for the movement towards to it

Dimension:

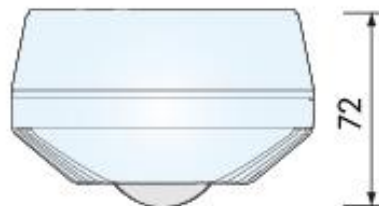
UT964i: 111.5 x 67mm



Detector with SP-96 power box cap (for optional purchase)



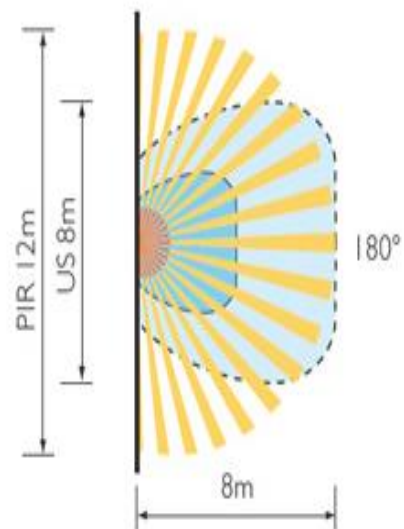
Detector with JB-46 junction box (for optional purchase)



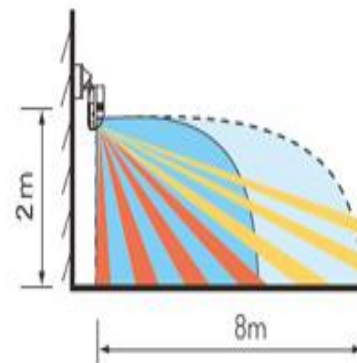
Detection:

Sensor: PIR x 1 + US x 2

Top view

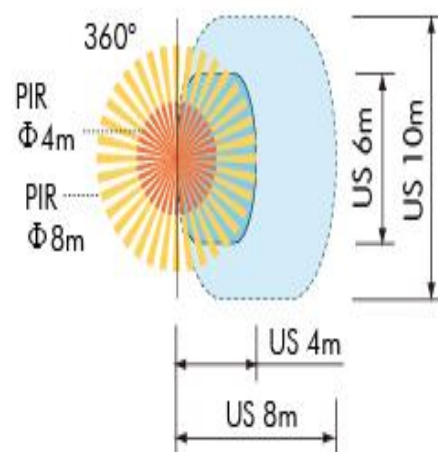


Side view

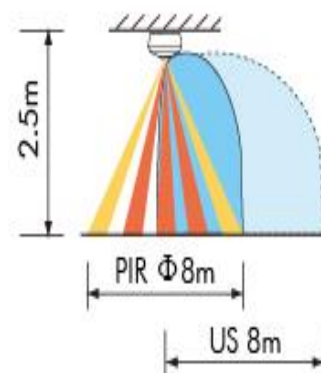


Sensor: PIR x 1 + US x 1

Top view

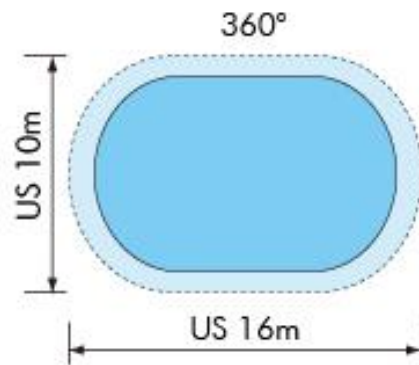


Side view

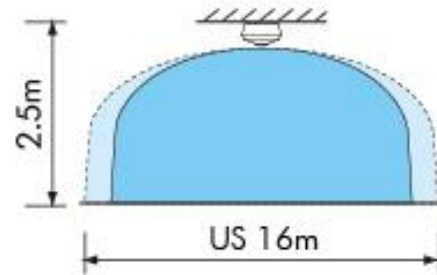


Sensor: US x 2

Top view

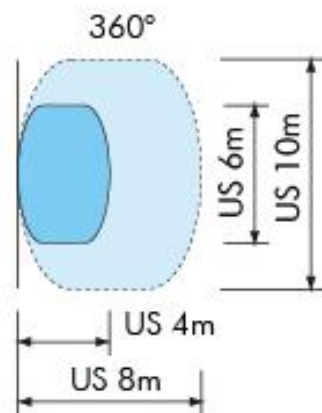


Side view

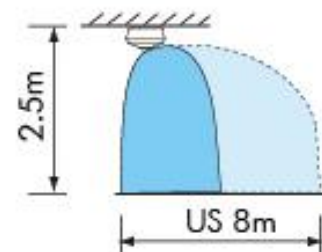


Sensor: US x 1

Top view



Side view



- | | |
|---|--|
|  Ultrasonic major motion |  PIR major motion |
|  Ultrasonic minor motion |  PIR minor motion |