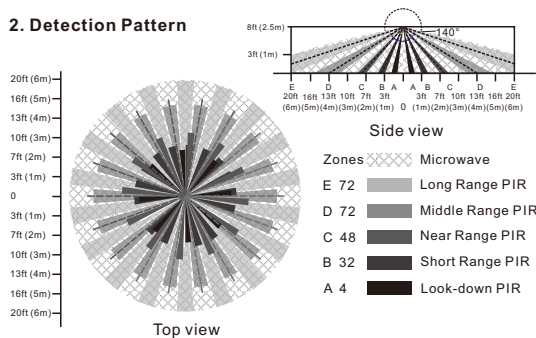


User Manual for Ceiling Mounted PIR/Microwave Dual-tech Motion Detector MIR1000

1. Product Overview

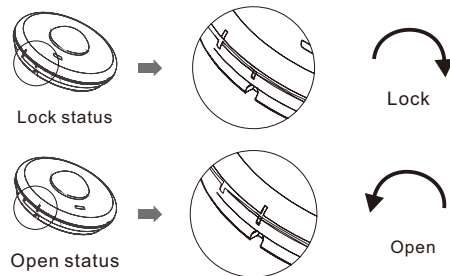
MIR1000 is a smart ceiling mounted PIR/Microwave dual-tech detector which may be the smallest dual-tech on the market. Built-in professional designed PCBA antenna and with environment self-adaptive technologies, MIR1000 can response quickly to motion target and synchronously be adapted to environment noise, to avoid false alarms. MIR1000 is built in high precise Fresnel lens professional for ceiling mounting. The Fresnel lens is with up to 57 divisional zones and features side-view angle of 140 degrees, which is more efficient and reliable than normal Fresnel lens. Built in such a Fresnel lens, even though the detector is mounted on ceiling with the height of 2.3 to 2.9 meter, its diameter of cover area can also reach more than 10 meter. With humanized design product structure, MIR1000 detector can be mounted directly into 86 base box. What is more, the professional microwave antenna design makes the microwave cover area overlap perfectly with that of PIR, to avoid the egg-shaped microwave cover area of most normal ceiling detectors, thus to eliminate false alarms and features pet immunity of 20 pounds.

2. Detection Pattern



3. How to mount

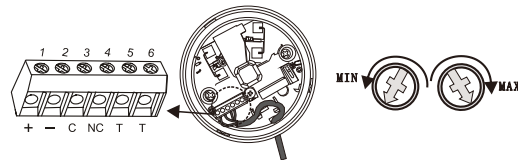
1. Clockwise rotate the front cover until the gap symbols overlap, take off the front cover and open.



2. Install the base directly into 86 box built-in wall or directly screw onto ceiling. Get the wiring cable into detector from side or bottom of base, and keep a length of 10cm, then cut off redundant cable.



3. Connect the cables to corresponding wiring terminals according to wiring diagram, and reel redundant cable into reeling poles to avoid cable loosing, as shown in Picture 1.



Picture 1

Picture 2

4. Adjust microwave sensitivity you need, as shown in Picture 2 above.

5. Function setup: Set PET Immunity function and LED ON/OFF, as shown in following pictures.



6. Make sure gap symbols of front cover and base overlap, and press the front cover to base, then contrarotate the front cover until it is locked.

Notice:

1. While installing, prevent your hand contacting PIR component or surface of Fresnel lens, and prevent dust falling onto inner or outer surface of Fresnel lens.
2. If the detector is installed on ceiling board, please ensure the ceiling board solid enough, to perform its perfect detection.

4. Specifications

- Detection unit: X-Band microwave and quad-PIR sensor, built-in AI Micro MCU
- Temperature compensation: Thermistance
- Working voltage: 9-15VDC at 10mA
- Alarm output: NC (Normal Close) alarm output, excitation reed relay, maximum load 30VDC/150mA
- Central microwave frequency: 10.525G or 10.535G
- High efficiency Fresnel lens zones: 18+18+12+8+1=57
- Pet immunity: 10KG
- Anti-white light interference: >8500Lux
- Anti-RF interference: >28V/M
- Application environment: -25°C to +52°C indoor
- Effective detection range: more than diameter of 10m (at 2.3m-2.9m height)
- Detector main body: Diameter of 89mm, thickness of 20mm