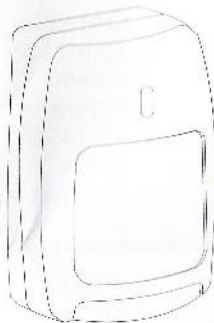


## Brief Introduction

I2-7103C is a passive infrared motion detector that can be used in common house and public business places. It is used to detect accidental or vicious intrusion and can satisfy ecumenical protection requirement. It is designed with mini size white pliable streamline; it is suitable for most indoor decoration and can be installed to the surface or corner with an installation height of 2.3 meters (7'6"). Its down-view protection area can avoid dead corner and optional flexibility setting can accommodate the environment. Its carbon black anti-worm cover can reduce interference of strong white light and avoid wrong alarm caused by small worms or loss of alarm. Its built-in tamper switch can avoid non-authorized take down.



Detection range:  
12mX12m(40' X40')

## Installation Height

I2-7103C is designed for indoor usage, installation position please refer to below installation guide:

- The main body of detector shall be straight after installation, leaning is not permitted.
- Option of installation shall make the intrusion path crossing the detection area, not facing or leaving the detector (Please refer to the protection area illustration 5 in the 2<sup>nd</sup> page)
- Protected area shall be seen during installation, no objects (including glass, plastic etc transparency) block between the detector and protection area
- Avoid direct or reflection sunlight. Keep away from heat source, windows and make it facing indoor.
- Don't install the detector near the place with sudden temperature change like heater, radiator, pipelines, air conditioner, burning fire etc.
- Connection cable shall not be lied together or near with other cables with strong interference

## Installation Way:

Can be installed on the wall or at the corner with its central height 2.3m (7'6"). Its fixed installation way is direct wall mounting or bracket supporting.

- Wall mounting  
Pre-set holes are for direct wall surface or corner mounting.
- Bracket installation  
Two optional brackets are available for installation. (Need additional purchase)

1. versatile bracket, white, universal

2. Ceiling mounting bracket, white, universal

## Installation Method

Open the outside cover by plane screwdriver; its size shall be suitable to the square hole in diagram 1

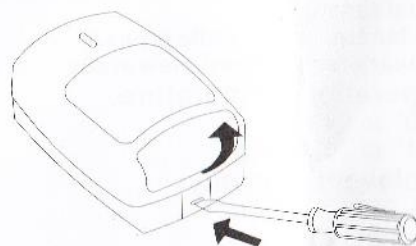


Diagram 1 Take down the cover

Perforation option for bottom cover

- A. Pre-set hole for wall surface mounting
- B. Pre-set hole for wall corner mounting
- C. Pre-set hole for wiring

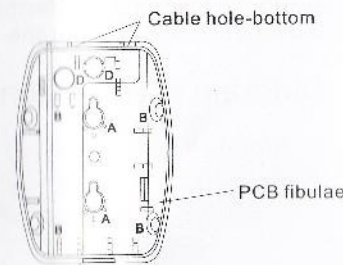


Diagram 2 Illustration of bottom cover and pre-set hole

Please operate in accordance with below steps:

- Open the cover: Separate the top and bottom cover by inserting a screwdriver into the bottom square hole. And then remove the top cover refer to diagram 1.
- Press the fibulae on the circuit verge to right outside and take out the circuit lightly. (Refer to diagram 2)
- Choose holes for wire crossing, wiring and installations on the bottom cover of detector and then strike off the plastic slice one the hole. (Refer to diagram 2)
- Pull out the cable from the wall and pear off the skin 8cm (3-1/4'), thrill into the cable hole on the bottom cover and then fasten it with a belt, cut off the less belt.
- Install the bottom cover onto a setting position. Leveling the PCB to installation position and press it into bottom cover. Connect the wire.

## Wiring Extremities

Connect the wiring extremities with 18-22 AWG (0.3-1.0 mm<sup>2</sup>). Pay attention to its polarity.

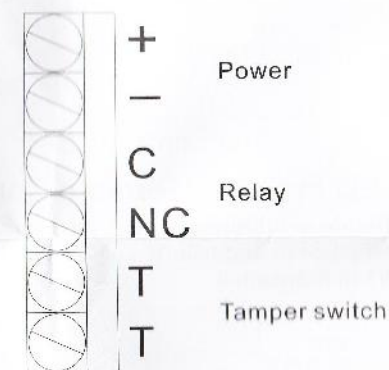


Diagram 3 Wiring extremities



## Setting Springing Pulse Option (flexibility setting)

Please refer to diagram 4 PCB sketch map.  
W2 setting flexibility

W2	Flexibility	Usage environment
HIGH 2.3Short	High flexibility	Better stable environment, little interference, narrow defending area. Common environment is compatible. It is recommended to be used when intrusion path crossing a small part of protection area.
NORMAL 1.2 short	Standard flexibility	Great environmental change, more interference, wide detection area. Used in common environment, can be compatible to seriously severe environment.

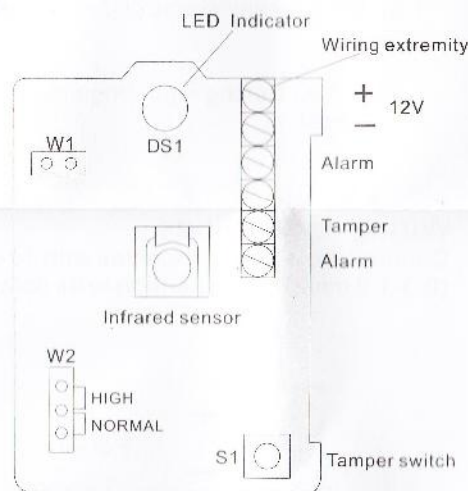


Diagram 4 PCB

## LED Indicator Remote Control Setting

Please set the remote control situation of LED indicator in accordance with PCB illustration, W1 in diagram 4

LED remote control	LED situation	
	Power connected	Alarm
Forbidden W1 open	LED off	LED off
Usable W1 short connected	LED indicator flashes once and turns off 2-3 minutes later	Light for 2-3 seconds

## Motion Test:

Mention: wait for 3 minutes to keep the detector function well after power connected.

1. Open the top cover, place W2 short connector to its needed position and set the flexibility. LED be set as usable (W1 short connected)
2. Close the cover, motion test shall be preformed only after LED indicator (DS1) turns off. Walking in the protection area, normal 2 to 4 steps can cause the LED indicator lighting. When LED Indicator turns on, alarm is touched off and the passed area is effective protection area. Motion test can be continued 15 seconds after LED turns off. LED doesn't light when there is no motion.

The effective protection range of the infrared detector will change in accordance with man wearing, backgrounds (floor, wall and any other objects in the effective area) and temperatures, so the possible intrusion path in the detective area must be tested for right usage.

## Test On Tamper Switch

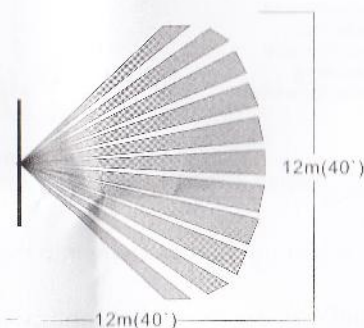
Tamper switch output shall be open when the covers don't close and it is short connected while the covers are closed.

## Important mention:

Motion test shall be performed at least once each year for the normal operation

## Diagram of Detection Space

Top view



Side view

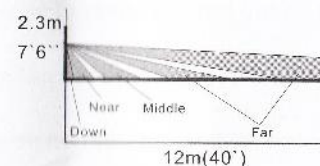


Diagram 5: Detection space illustration.

## Function indexes:

### Detection range:

12m x 12m  
40' x 40'

### Power supply:

10-14VDC  
20mA

### Alarm relay:

A model (N.C.)  
100mA, 24VDC

### Tamper switch:

Close when covers installed.  
25mA, 24VDC

### Anti RFI/EMI interference:

20V/m  
10MHz-1000MHz

### White light immunity:

6,500Lux

### Optional accessories:

versatile bracket,  
white, universal

Ceiling mounting  
bracket, white, universal

### Flexibility:

Optional setting  
(standard & high flexibility)

### Infrared detection viewing area quantity:

Dual sensor  
44 far areas, 14 middle areas,  
8 near areas, 4 down-view areas

### Operation temperature:

-10° to 49° C  
(14° to 120° F)

### Relevant humidity:

5%-95%, non-frost

### Dimensions:

87mm x 62mm x 40mm

### Weight:

65.5g

### Certifications:

CCC