Wirefree PIR Motion Detector

E-990

IQ-group

V2.0 - 02/05

IQ-SA-180-DC-TX-T

IQ Europe Limited
Sandbeck Lane, Wetherby LS22 7TW.
Visit us at www.iq-europe.co.uk
Installation helpline 0871 717 1100

INSTALLER GUIDE

MANUFACTURER'S EXTENDED WARRANTY

In addition to your statutory rights relating to this product it is also guaranteed by IQ (Europe) Limited ("IQ") for 12 months from the date of purchase against faulty materials or workmanship which affect its designed ability to detect or switch. During this period if the product has a defect of this nature it will be repaired or replaced free of charge by IQ with the same item, or a similar one of higher specification, ON CONDITION THAT:-

The buyer takes advantage of any 'return to store' scheme operated by the seller from whom it is bought.

If the product has a defect outside the period of any seller's 'return to store' scheme it should be returned to IQ (Europe) Limited at Sandbeck Lane, Wetherby, W. Yorks LS22 7TW, England at the expense of the buyer together with evidence of the date of purchase (it is the responsibility of the buyer to prove delivery to IQ).

The product has been bought by the user.

The product has not been misused or handled carelessly, installed incorrectly, or used on a voltage supply other than that shown on it.

Repairs have not been attempted by anyone other than IQ's staff.

The product has been used for domestic purposes only.

The product has not been installed in any unusually exposed or harsh environmental conditions.

If the buyer is resident in the EU the product or its replacement will be returned to the buyer at the expense of IQ.

This guarantee excludes liability for discolouration of paint or plastic, or any user replaceable parts and in particular lamps, glass panels, or globes/lanterns. It does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage.
This guarantee is offered as an additional benefit and does not affect your statutory rights as a consumer.

This contract is subject to the laws of England and Wales.

***** IMPORTANT *****

As of 1 January 2005, changes to the Building Regulations affect domestic electrical installations in England and Wales. You don't need to be a qualified electrician to make changes to your home's electrical system, but the work must be done in accordance with the Regulations.

Where you employ an electrician who is a member of a competent person self-certification scheme, they will be able to certify the work complies with the Regulations.
If you decide to carry out the work yourself we recommend that you make yourself aware of the Regulations before you begin and if you require any clarification you should contact your Local Authority Building Control Department.

Details of the Building Regulations can be obtained on the internet via the government website www.odpm.gov.uk/explanatory-booklet

SECTION ONE
GENERAL INFORMATION

The unit utilises passive infrared technology to detect heat radiation of moving human bodies. This transmitter must be used in conjunction with suitable receivers in the IQ Wirefree range. Upon detection, the transmitter will send a signal to its intended receiver (bought separately) and the receiver will react as programmed. An integral daylight sensor ensures night-only operation of the floodlight.

PLEASE NOTE:- PLEASE SEE THE SEPERATE INSTRUCTION MANUALS FOR THE RECEIVER PRODUCTS TO UNDERSTAND HOW TO PROGRAM AND ADJUST THAT SPECIFIC RECEIVER.
THIS MANUAL COVERS THE INSTALLATION OF THIS SPECIFIC PIR TRANSMITTER ONLY

PARTS INCLUDED
- PIR Sensor unit.
- Instruction manual. Please keep safe for future reference.
- Accessory Pack.

TOOLS & PARTS NEEDED
- Electric/hand-held drill & bits.
- Terminal or Electricians screwdriver
- 3 x AA (LR6) 1.5V Batteries

Unit can be used indoors or outdoors.

SECTION TWO
SELECTING THE LOCATION

For optimum performance, mount at 2.5m high.
The sensor can be pointed in any direction as long as it is within 100m of the receivers it is to be used with.

The sensor can detect motion up to 12m within a 180 degree radius.

The sensor moves up or down, left or right to change the coverage area.
Keep in mind the sensor is most sensitive to movement across its field of vision.
The motion detector has a number of detection zones, at various vertical and horizontal angles as shown (see diagram A). A moving human body needs to cross/enter one of these zones to activate the sensor.
Careful positioning of the sensor will be required to ensure optimum performance. See diagram A

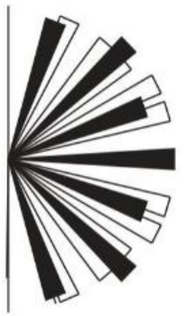
The sensor is more sensitive to movement ACROSS its field of vision than to movement directly TOWARDS (see diagram B). Therefore position the unit so that the sensor looks ACROSS the likely approach path.

Avoid positioning the sensor where there are any sources of heat in the detection area (extractor fans, tumble dryer exhausts etc.).
Reflective surfaces (ie pools of water or white-painted walls) and overhanging branches may cause false activation under extreme conditions.

During extreme weather conditions the motion sensor may exhibit unusual behaviour. This does not indicate a fault with the sensor. Once normal weather conditions return, the sensor will resume normal operation.

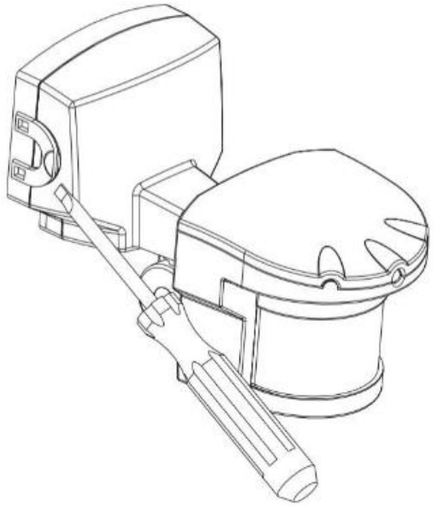
A

TOP VIEW

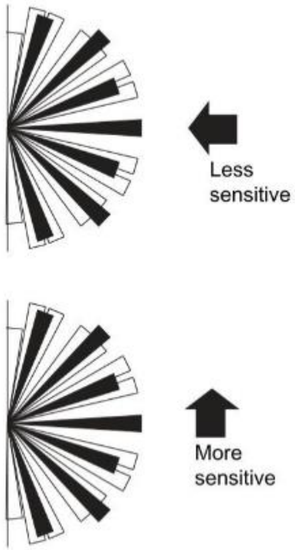


SIDE VIEW

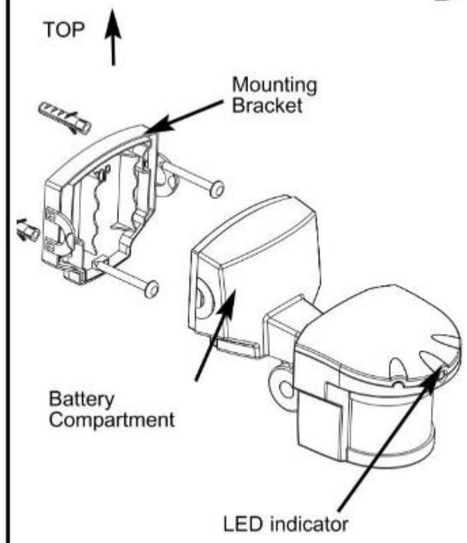
C



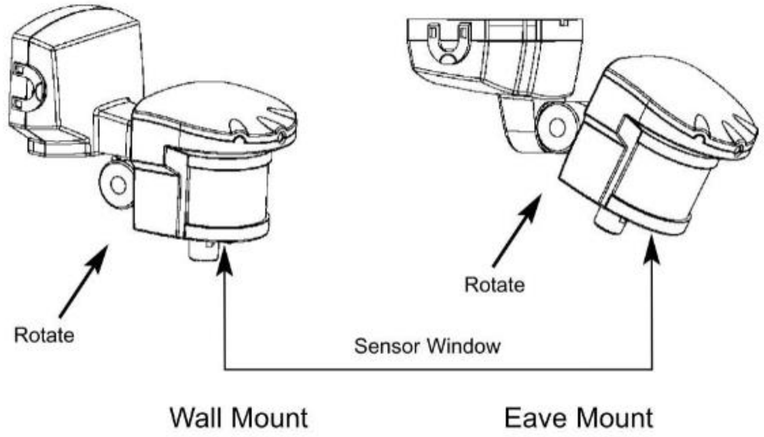
B



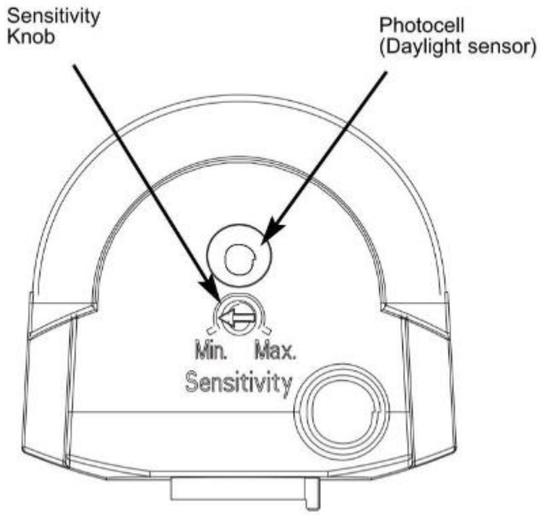
D



E



F



View of bottom of sensor

SECTION THREE
INSTALLATION

The unit can be mounted on walls or under eaves. See Diagram E. Simply rotate the sensor head to the desired position. Always ensure that the sensor window is in the position shown with the adjustment knob on underside.

Carefully insert your terminal screwdriver into the the clips on either side of the unit. The clips will detach from either side of the wall plate. See diagram C.

Using the wall plate as a template, mark the position of the fixing holes. If wall mounting, ensure that the "TOP" engraving inside the wall plate is facing upwards. See diagram D.

Drill holes and fit wall plugs into holes.

Fix the mounting plate to the wall. Take care not to overtighten the screws to prevent damage to the mounting plate. If using a power screwdriver, use the lowest torque setting.

Fit 3 x AA (LR6) 1.5V batteries into the battery compartment. Ensure polarity is correct. Use the engraving inside the battery compartment as a guide to ensure that they are fitted correctly.

Refit the the sensor to the wall plate and ensure the clips are located. The clips will "click" into place to ensure a watertight seal.

SECTION FOUR
OPERATION AND TESTING

WALK TEST PROCEDURE

The sensor will rotate from left to right, and tilt forward or backward. Adjust the sensor to point in the required direction. (note diagram B)

The unit can be set up in daylight or at night. For daylight set up, do not remove the sticker covering the photocell (daylight) sensor.

Walk in front of the Sensor, keeping an eye on Sensor's LED (diagram D). It will flash red when sensing an object and transmitting a signal. (The Sensor will continue to sense motion if present, but will only transmit a signal and light the LED every 5 seconds.)

Check to make sure the Sensor covers the desired area and adjust to suit your installation.

For night only operation, remove and discard the sticker covering the photocell. The sensor will now trigger its intended receiver during darkness.

The SENSITIVITY can now be adjusted to increase or reduce the detection range.

AUTO PROGRAMMING

To be operated by the Wireless Remote Sensor, the IQ Receivers must learn the Sensor's unique code. IQ makes this easy with its Auto Programming function.

1. Press the Receiver's PROGRAM button for 1 second while Receiver is powered. Be careful not to hold any longer than 1 or 2 seconds or you may erase all existing codes. The light will go ON, indicating it is in PROGRAM MODE and will remain ON up to 5 minutes. (If programming a Plug-In Alarm/Lamp Receiver, it will make a "chirp" sound and the LED will flash indicating it is in PROGRAM MODE).
2. Activate the Sensor to send its coded signal to the Receiver and the light will go OFF. (If using Plug-In Alarm/Lamp, a "chirp" will sound indicating it has been coded with the Sensor's signal.)
3. This code will be stored in the Receiver along with existing codes and the Receiver will now respond to the Sensor.

Note: To prevent inadvertent programming by other IQ Transmitters, remove the batteries from all Transmitters. Gradually add batteries to the Transmitters you want coded to the Receiver during the Auto Programming Mode. Wait at least 30 minutes after completing the Auto Programming before you replace the batteries in Transmitters that you don't want to be programmed to operate the Receiver.

LOW BATTERY INDICATION

The LED will flash on and off twice, after every detection if the battery power is at a low level.

Replace the batteries as soon as possible.

SECTION FIVE
TECHNICAL SPECIFICATIONS

Detection Range	**Up to 12 metres**
Detection Angle	**180º**
Power Supply	**3 x AA (LR6) 1.5V batteries**
Environmental Protection	**IP44 (suitable for outdoor use)**
Transmission Range	**Up to 100m (varies with surrounding structures)**

If you experience problems refer to Troubleshooting Guide.
If problems still exist, do not immediately return the unit to store.

Telephone the IQ Customer Helpline

0871 717 1100 Weekdays 9.00am - 5.00pm

support@iq-group.com www.iq-europe.co.uk

Qualified Customer Support Co-ordinators will be on-line to assist in resolving your query.

SECTION SIX

TROUBLESHOOTING GUIDE

Problem	Possible cause/solution
○ Tone/Light will not activate when motion is sensed.	1. Light switch is turned off. 2. Re-aim sensor to cover desired area. 3. Turn Sensitivity Knob to maximum 4. Check Light bulb, it may be loose or burned out. 5. Photocell determines it is daylight. Move away from light source. 6. Sensor is too far from Receiver. Move closer. 7. Metal on building, chain link fence, etc. blocking path of Sensor's signal transmission. To check signal path, set Receiver's On Time dial to Test (if it has this function). Remove Sensor from bracket (recover photocell if daylight). As you walk the Sensor around the Receiver, wave your hand in front of Sensor. Note when it turns the Receiver ON. Remount Sensor in that area.
○ Tone/Light comes on in daylight	1. Sticker not removed from sensors photocell. Remove label 2. Sensor installed in dark location. Reposition Sensor
○ Light flashes on and off twice when activated.	This is the low battery signal. Replace transmitter batteries.
○ Tone/Light activates for no apparent reason	Check area for false activation from heat or reflective source. Re-aim sensor
○ Light Stays on at night	1. Check area for false activation from heat or reflective source. Re-aim sensor 2. Receiver is in Manual Override mode. Flip wall switch off then on again within 1 second to place back in Auto Mode

Problem	Possible cause/solution
○ Tone/light activates irregularly when motion is sensed	1. Sensor is too far from Receiver. move closer 2. Metal on building, chain link fence, etc. blocking path of Sensor's signal transmission. To check signal path, set Receiver's On Time dial to Test (if it has this function). Remove Sensor from bracket (recover photocell if daylight). As you walk the Sensor around the Receiver, wave your hand in front of Sensor. Note when it turns the Receiver ON. Remount Sensor in that area. 3. Re-aim Sensor for optimum motion sensitivity.See diagram B.