Motion Monitor™
Motion Sensor with
Dual Floodlights
Model PR511

Owner’s Manual
INTRODUCTION

Your Motion Monitor consists of a main sensor head, dual floodlight lamp holders (bulbs not included) and a mounting plate. It is designed to be installed indoors or outdoors and should be mounted on a standard round electrical wall box. When someone approaches your home, the connected floodlights turn on, and turn off after the delay you set. The unit can also be set to turn on lights inside your home. You connect these lights to X10 modules (sold separately). You can set these lights to turn on when motion is detected and/or when it gets dark.

Locating the Motion Monitor

Consider the following points when choosing a location to install the Motion Monitor:

- The Motion Monitor must be at least 6-8 ft. above the ground and be parallel to the ground. At a 6 ft. height it will have a detection range of approximately 30 ft.
- The floodlights should be aimed away from the Sensor.
- Direct sunlight should not fall on the Motion Monitor lens.
- The Motion Monitor should not face reflective surfaces such as a swimming pool or large windows.
- Do not mount the Motion Monitor over heat producing vents or air conditioning units.
- The Motion Monitor cannot “see” through glass.

Note: The sensor “sees” a moving object by detecting a change in temperature. If you install and set up the Motion Monitor on a very hot day, it will be difficult for the sensor to detect the difference between the heat from your body and the background temperature. (At a background temperature of 98.6° F you are invisible to the sensor). In very hot weather it is recommended that you make test adjustments in the evening when it is cooler.

ASSEMBLING THE PARTS

The Motion Monitor mounting plate is designed to fit a standard round outdoor electrical junction box (not included).

Referring to the diagram below:

1. Screw the base of each lamp holder into the outer holes on the mounting plate.
2. Rotate the locking ring on each lamp holder towards the plate until the lamp holder is secure against the plate.
3. Screw the threaded end of the Motion Monitor into the center hole on the mounting plate.
4. Lock the Motion Monitor into place using the locking ring.
5. Locate each lamp holder’s WHITE wire and one of the WHITE wires from the Motion Monitor and twist all three wires together using a wire nut (supplied).
6. Locate each BLACK wire from the lamp holders and connect them both to the BLUE wire from the Motion Monitor, again using a wire nut.
7. Make sure no bare whiskers of wire stick out from the wire nuts (cover with electrical tape if necessary).
**INSTALLATION**

You can install the Motion Monitor assembly in a wall box that is powered at all times or in a wall box that is controlled by a wall switch, but if it is controlled by a wall switch, make sure you leave the switch on at all times. Turning the switch off will completely disable the Motion Monitor.

**CAUTION:** To prevent severe damage to the unit, do not connect it to a wall box that is controlled by any kind of dimmer or remote controlled switch.

**WARNING:** Before making the following connections, be sure to turn off the power to the junction box that you are installing the Motion Monitor Assembly into. If you don’t, a serious shock hazard will exist!

1. Install the gasket (supplied) onto the junction box, and route the house wiring through the gasket.
2. Connect the GREEN wire from the mounting plate to the bare ground wire in the junction box, or ground screw if there is one.
3. Connect the WHITE (Neutral) wire from the Motion Monitor assembly to the house wiring’s WHITE (Neutral) wire, using a wire nut.
4. Connect the BLACK (Live) wire from the Motion Monitor assembly to the house wiring’s BLACK (Live) wire, using a wire nut.
5. Make sure no bare whiskers of wire stick out from the wire nuts (cover with electrical tape if necessary).
6. Secure the mounting plate to the junction box using the screws provided.
7. Secure the insulating ring in each lamp holder and screw a bulb (max. 150W, not supplied) into each lamp holder.

**Note:** The Motion Monitor has a special lens that “looks” downwards. It must therefore be mounted to face outwards horizontally, i.e. do not “aim” the sensor downwards.

---

**CONTROLS AND SETTINGS**

**Adjusting the Motion Monitor Coverage**

- Set the DUSK control fully clockwise to LIGHT.
- Set the RANGE control fully clockwise to MAX.
- Set the TIME DELAY to 0.1 minutes (approx. 6 seconds) using a flathead screwdriver.
- Swivel the sensor head toward the area you want to cover. Be sure the sensor head remains level from side-to-side and level with the ground.
- Aim the floodlights at the area you want to light.
- Turn on the power and wait for one minute.
- Walk around the covered area. Whenever the sensor “sees” you the floodlights turn on and remain on for six seconds after you stop moving. If necessary, reorient the sensor head so normal road traffic does not activate the Motion Monitor.

**Dusk control**

After checking that the unit works during the day with the Dusk setting turned fully clockwise, you might want to set the unit to only operate at night. The best setting for the dusk control is indicated by the index mark. This setting should be tried before making any further adjustments. The setting of the dusk control is quite sensitive, so only make small adjustments each time.

- Turn the control toward DARK if the Motion Monitor operates too early in the day.
- Turn the control toward LIGHT if the Motion Monitor operates too late in the day.
- Turn the control all the way to LIGHT for the Motion Monitor to work all the time.

**Range control**

- Turn towards MAX to increase range.
- Turn towards MIN to avoid traffic, pets or small animals triggering the Motion Monitor.

**Time Delay switch**

- Set to desired time for lights to stay on after no further motion has been detected.
Problem: Sometimes the Motion Monitor seems less sensitive than other times.
Solution: Observe the notes and diagrams on page 2, and note that the Motion Monitor is most sensitive when you walk “across” its path. It is also less sensitive in very hot conditions, i.e., in the summer. (The normal operating temperature range is -4 deg. F. to +122 deg. F).

Problem: I want to have the lights on for a couple hours for a Barbecue, what do I do?
Solution: Using an X10 Controller, you can send an ON command corresponding to the Motion Monitor’s Start Code, and it will stay on until an OFF command is sent.

Problem: The floodlights are on constantly and will not turn off.
Solution: If turned on by a command from an X10 Controller, the Motion Monitor stays on until turned off from and X10 Controller, if necessary send an Off command to the Motion Monitor from an X10 controller, returning the Motion Monitor to normal cycling mode.

Also, if the Motion Monitor is accidentally powered off (from a wall switch that controls the power to it) while the floodlights are on, it will stay on when the power is reapplied. After dark, (depending on the position of the dusk setting) trigger the Motion Monitor by walking in front of it, then after the delay time you’ve set the floodlights will turn off and return to normal operation.

Problem: The Motion Monitor sometimes doesn’t control my X10 Module.
Solution: Check that the Module you’re having trouble controlling is set to match the appropriate Sensor or Dusk switch on the Motion Monitor, and that the appropriate Sensor or Dusk switch is set to IN.

Try the Module in different outlets. If that doesn’t help, please visit: http://www.x10.com/support for more help.
X10 Wireless Technology, Inc. Limited One Year Warranty

X10.com, a division of X10 Wireless Technology, Inc. (X10) warrants X10 products to be free from defective material and workmanship for a period of one (1) year from the original date of purchase at retail. X10 agrees to repair or replace, at its sole discretion, a defective X10 product if returned to X10 within the warranty period and with proof of purchase. If service is required under this warranty:

Call 1-800-442-5065, visit www.x10.com, or e-mail support@x10.com.

For help or more information on setup, please visit: http://www.x10.com/support

---

X10.com, a Division of
X10 Wireless Technology, Inc.
3824 North 5th St.,
Suite C, North Las Vegas, NV 89032

http://www.x10.com

PRS11-11/02