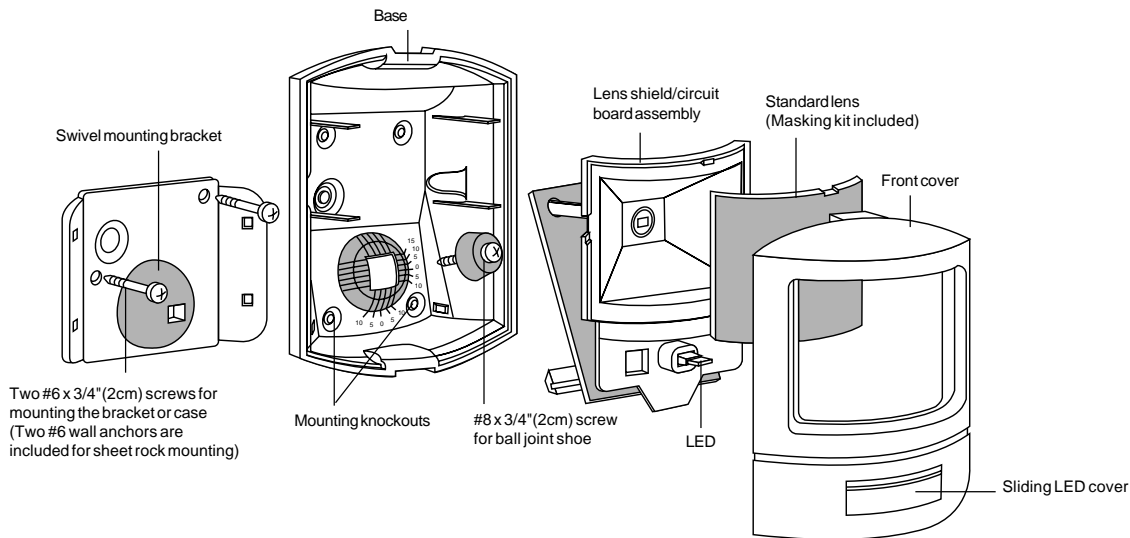




# 6150-ID SHARPSHOOTER™ PIR installation instructions

Figure 1. Exploded view



## Description

The 6150-ID (Figure 1) is an addressable PIR device that interfaces with the PinPoint system. This system provides flexible and reliable two-way communication between the device and the controller.

## Mounting location

### Avoid false alarm sources (Figure 2)

The unit should not “see” sources of heat or cold. For false alarm free operation, no part of an unwanted hot spot should enter any part of a zone.

### Locate for cross traffic (Figure 3)

Place the unit where intruders move **across** the beams, not toward the unit. For best detection, an intruder should cross the entire zone.

### Do not block the coverage pattern (Figure 4)

The unit requires a clear line of sight. Inform end-users not to block the coverage pattern with inventory or furniture.

Figure 2. False alarm sources

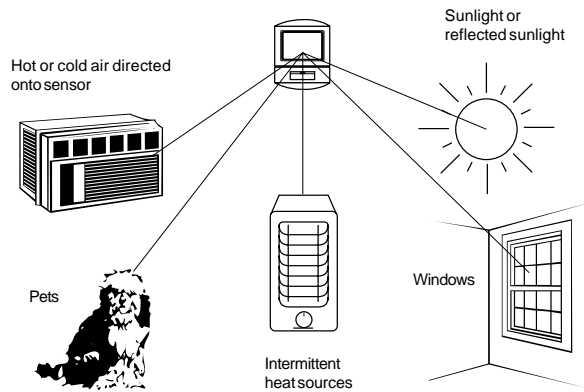


Figure 3. Cross traffic

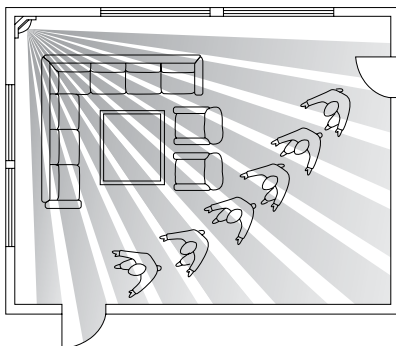
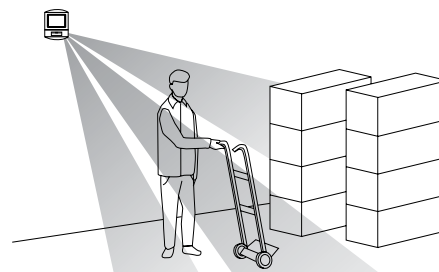


Figure 4. Blocking coverage pattern



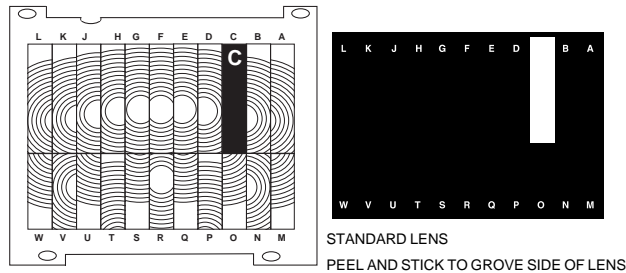
## Installation

1. Run the PinPoint system wiring to the unit location.
2. Open the unit by snapping the front cover down and off the base (*Figure 1*).

**CAUTION** You must be free of all static electricity before handling sensor circuit boards. Touch a grounded, bare metal surface before touching circuit boards or wear a grounding strap.

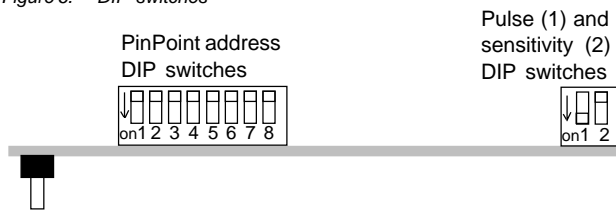
3. Use the masking kit (*Figure 5*) if you need to adjust zone coverage for your application. See *Masking*.

Figure 5. Masking



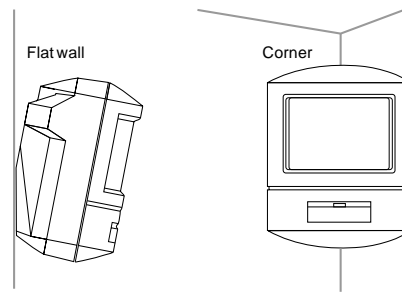
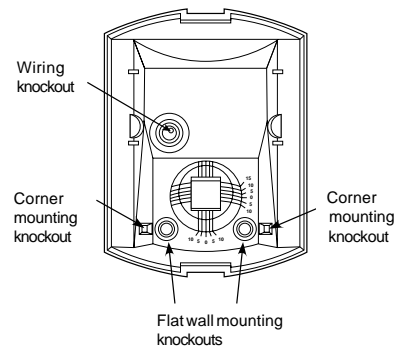
4. Set the pulse and sensitivity DIP switches (*Figure 6*). See *DIP switches*.

Figure 6. DIP switches



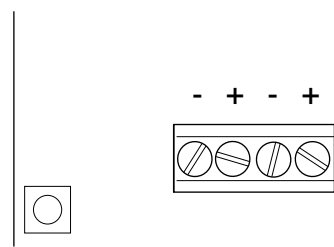
5. Set the PinPoint address DIP switches (*Figure 6*).  
Devices are shipped with DIP switches set to 255. This is an invalid address. **The device will not communicate with the controller and the walk test LED will not light until a valid address has been set.** Refer to the controller's manual to determine the correct address setting for each unit.
6. Pull the PinPoint wiring through the base and attach the base to the wall using the corner or flat wall knockouts (*Figure 7*). For optimal coverage using the standard lens, mount 6 feet 10 inches (2.1 m) above the floor.  
See *Swivel bracket mounting* for instructions on mounting with the swivel bracket (*Figures 9 and 10*).

Figure 7. Mounting without the swivel bracket



7. Strip 1/4 inch (6.4 mm) of insulation from each PinPoint wire. Connect the wiring to the appropriate screw terminals (*Figure 8*) and tighten the screws. Make sure the cable is slack in the wall to avoid stressing the wires at their connections.

Figure 8. PinPoint wiring



8. Snap the cover back on the base and seal all openings.
9. Walk test the unit to confirm correct operation (see *Walk test*).
10. Slide the LED cover up to hide the LED (*Figure 1*), if desired.

## Masking

To avoid smudging the masking strips, make sure your hands are clean before using the masking kit.

1. To unsnap the shield from the front cover, grasp the edge of the circuit board and gently rotate the lens shield/circuit board assembly up from the bottom (see figure 1). Remove the lens from the shield.
2. Locate the lettered masking strip on the masking kit, peel off the masking strip, and press onto the corresponding grooved segment on the lens. The notch of the lens must be up.
3. Reinstall the lens in the shield. The notch on the lens should match the notch on the shield.
4. Snap the shield/circuit board assembly into the front cover.

## DIP switches

DIP switches on the back of the circuit board (*Figure 6*) set pulse, sensitivity, and PinPoint address.

### Pulse (DIP switch 1)

**ON** Bi-curtain mode (3 pulse), the **factory default**, increases false alarm immunity in smaller areas and requires the intruder to pass through two curtains to trigger an alarm. Do not use for single curtain applications or ranges under 5 feet (1.5 m).

**OFF** Standard curtain mode (2 pulse) is used for wide-angle or single-curtain applications. It requires the intruder to only pass through one curtain to trigger an alarm.

**Notes** Operation in the standard curtain mode is for the specified ranges of 33 feet (10.1m) and 45 feet (13.7 m).

For operation in bi-curtain mode, the unit has 30 feet (9.1m) of range only.

For ranges from 30 to 45 feet (9.1 to 13.7 m), the unit will provide detection within 6 steps or 14 feet (4.3 m) across the plane of coverage.

### Sensitivity (DIP switch 2)

**ON** High sensitivity range up to 45 feet (13.7 m)

**OFF** Low sensitivity range under 33 feet (10.1 m)  
**(factory default)**

It's important to program the unit correctly for optimum sensitivity and walk test the unit regularly (see *Walk test*).

## Swivel bracket mounting

The swivel bracket allows aiming and adjusting the unit for maximum detection and avoidance of false alarms (*Figure 9*).

The swivel bracket's snap-off tabs allow angle mounting, for applications such as hallway protection. Break the tabs off by bending them back and forth.

Use these screws for mounting:

- Two #6 x 3/4" (19 mm) screws for mounting the bracket or the base to the wall
- One #8 x 3/4" (19 mm) screw for mounting the base onto the bracket (insert into ball joint shoe)

Align the arrows on the ball joint shoe with the zeroes on the base for 6 foot 10 inch (2.1 m) mounting for typical coverage. This is the 0 degree setting. For every 1 foot (0.3 m) above the typical mounting height, tilt the shoe down 1 degree. For example, for 7 feet 10 inches (2.4 m), tilt the shoe down 1 degree, or for 8 feet 10 inches (2.7 m), tilt the shoe down 2 degrees.

Turn the swivel bracket screw (*Figure 10*) until snug.

Figure 9. Swivel bracket mounting

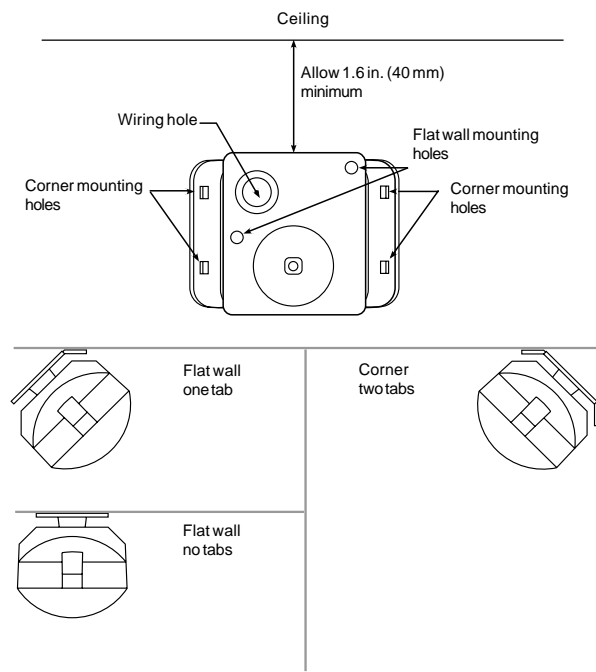
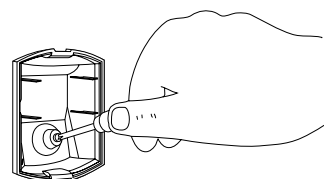


Figure 10. Swivel bracket screw



## Walk test

A walk test mode for testing the unit operation and coverage pattern is provided. Do the following to walk test the unit:

1. Ensure the unit is enrolled in the PinPoint system. The walk test LED will not light unless the unit is enrolled.
2. Pull the front cover away from the base until the tamper switch opens to enable the walk test mode.
3. When the unit is remounted on the base, the unit remains in the walk test mode for 3 to 4 minutes. If additional time is required, releasing and depressing the tamper switch will reset the walk test timer. Depending on pulse and sensitivity DIP switch settings, the walk test mode allows the unit to alarm whenever one or two curtain areas are entered. The LED visible on the front cover lights to indicate an alarm.
4. Walk test the detection pattern and make any necessary adjustments.
5. Replace and walk test the unit to verify the unit is communicating with the controller.

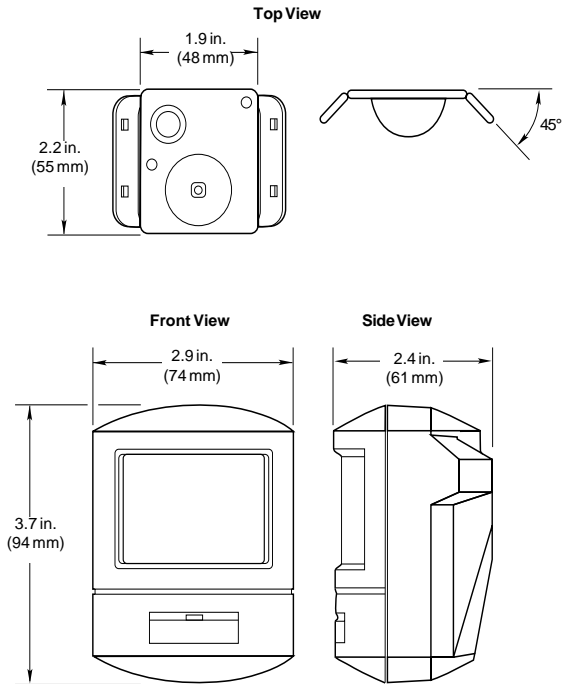
**Note** After the walk test mode times out in 3 to 4 minutes, the unit returns to normal operating mode. In normal operating mode, the unit LED is disabled to reduce voltage loss on the PinPoint bus.

## Maintenance

When installed and used properly, the unit provides years of service with minimal maintenance. To ensure proper operation, you should walk test the unit annually (see *Walk test*).

Clean the inside of the unit with a soft bristled brush or compressed air. Clean the cover with a damp (water) cloth as needed to keep it free of dust and dirt. **Always test the unit after cleaning.**

Figure 11. Dimensions



# Zone patterns

Figure 12. Standard

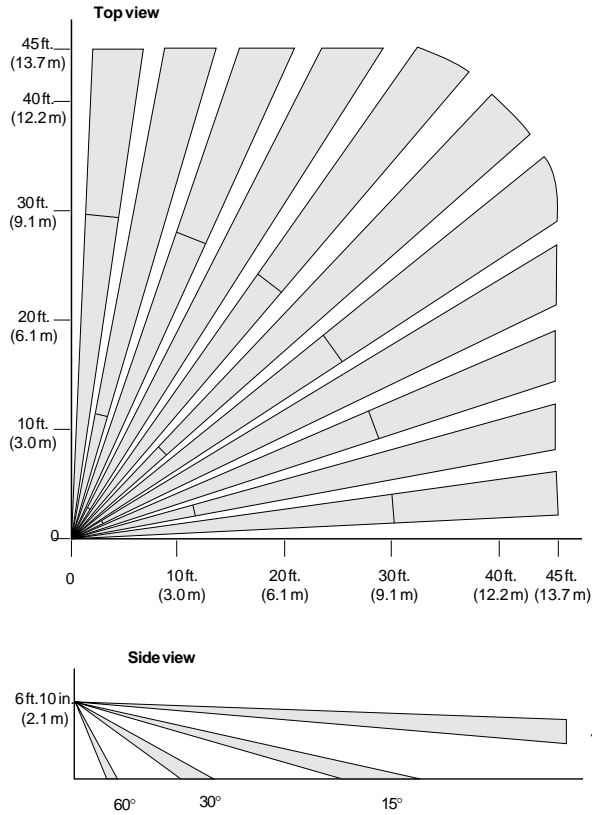


Figure 13. Longrange

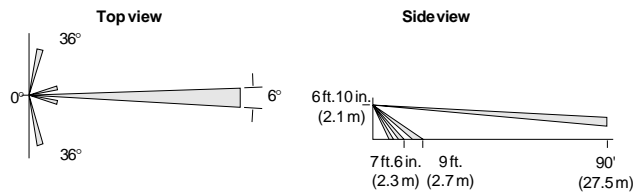


Figure 14. Curtain

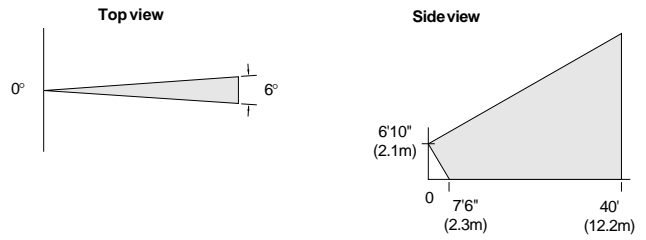


Figure 15. Pet alley

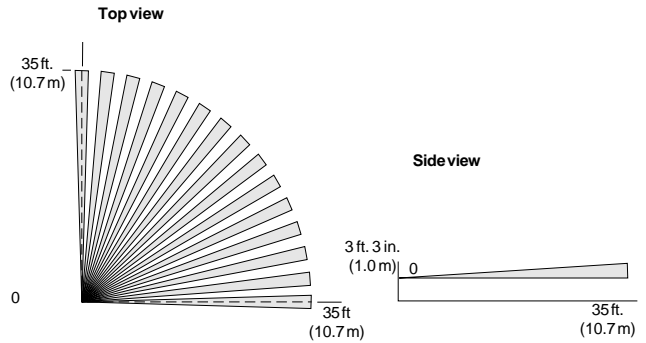
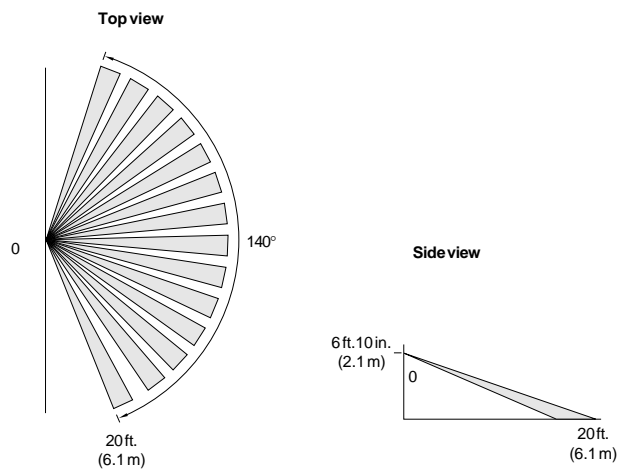


Figure 16. Extra wide angle



## Specifications

Housing material	Flame retardant ABS
Operating voltage	8 to 27V (as supplied by the PinPoint bus)
Current draw	250µA typical average 3 mA with LED momentarily on
Transmit condition	Alarm, tamper
Detection range	45 ft. (13.7 m)
Operating temperature	32 to 131°F (0 to 55°C)
Relative humidity	10 to 90% non-condensing
Maximum line length	10,000 ft. (3 km)
Standard swivel bracket	± 10° left/right, 10° up, 15° down
LED indicator	Walk test
Dimensions:	
Width	2.9 in. (74 mm)
Depth	2.4 in. (61 mm)
Height	3.7 in. (94 mm)
Color	Off-white
Coverage Patterns	Standard (installed) 45 ft. x 90° Long Range (optional) 90 ft. x 6° Curtain (optional) 40 ft. x 6° Pet Alley (optional) 35 ft. x 90° Extra Wide Angle (optional) 20 ft. x 140°
Listings	FCC, CE

## FCC compliance

This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

## Product ordering

Product	Description
6150-ID	Addressable, passive infrared motion sensor for use with the PinPoint bus with swivel bracket and standard lens
Lenses	
6070	Standard lens, 45 ft. (13.7 m) x 90°
6071	Long range lens, 90 ft. (27.4 m) x 6°
6072	Extra wide angle lens, 20 ft. (6.1 m) x 140°
6073	Curtain lens, 40 ft. (12.2 m) x 6°
6074	Pet alley lens (12° tilt), 35 ft. (10.7 m) x 90°
6077	Pet alley lens (non-tilt), 35 ft. (10.7 m) x 90°
6076	Single beam pet alley, 50 ft. (15.2 m) x 6°