

WARRANTY

1. Manufacturer warrants to the original purchaser that the SafePresence Motion Detector will be free from defects in materials and workmanship for a period of one (1) year from the date of purchase.
2. During this period, the manufacturer will perform repairs or effect replacement at manufacturer's option at no charge.
3. Manufacturer's limited warranty covers only those defects that arise as a result of normal use of the hardware and does not apply because of:

■ Damage or faults caused by use contrary to instructions, warnings or cautions.

■ The serial number has been altered, defaced or removed.

■ Defects or damage caused by or resulting from unauthorized service or parts.

■ Damage caused by misuse, abuse, accident, neglect or mishandling.

■ Defects or damage that occurs due to fire, earthquake, flood or other water immersion, faulty or leaking batteries, batteries not required by SafePresence, lightning, other natural disasters, environmental pollution and irregular voltage sources.

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Instruction Manual  
SafePresence® Motion Detector  
Model SP230

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## INTRODUCTION

Thank you for purchasing the SafePresence Motion Detector. The SafePresence Motion Detector operates at 433 Mhz. It sounds a local alarm on the sensor or transmits an alert to a pager carried by caregivers. The unit is often installed to monitor a bed or doorway. Caregivers choose the placement and application that is best for the person in their care.

Screws (included) or Velcro® (sold separately) can be used to mount the monitor which is powered by a 9 Volt battery. The receiver is also battery powered and has LOW or HIGH volume settings.

The SafePresence Motion Detector is only an aid for caregivers and is not designed to replace proper nursing care including, but not limited to 1) visual monitoring 2) direct patient supervision 3) proper training for all caregivers using the system 4) testing the system daily and before each use, and 5) immediate caregiver response to the alerts. The Caregiver Communicator and accessories may not be suitable for all individuals.

Keep these instructions in a safe place. Keep a record of all training sessions and the following information for future reference. This information will be needed for repairs or returns.

Serial No.: \_\_\_\_\_ Date of Purchase: \_\_\_\_\_

### READ THIS INSTRUCTION MANUAL THOROUGHLY BEFORE USE.

#### ABOUT THESE OPERATING INSTRUCTIONS

These operating instructions can be used for the SafePresence Motion Sensor Model 230. Read and follow the instructions. If you have questions, please contact your distributor or visit [www.safepresence.com](http://www.safepresence.com).

Symbols used in these operating instructions:

#### ⚠WARNING⚠

This indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

#### ⚠CAUTION⚠

This indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices

If you have questions, please contact your distributor or visit [www.safepresence.com](http://www.safepresence.com)

## SPECIFICATIONS

### SAFEPRESENCE MOTION DETECTOR

Power Source	DC 9V
Working Temperature	Approx. 0° and 50° C
Detection Distance	15M (50 ft.)
Horizontal Detection Range	60°
Switch State	Chime / Off / Remote
Local Alarm Time	10 seconds
Vertical Detection Range	6°
Alarm Loudness	>75 dB

MAINTENANCE

⚠WARNING⚠

Test your SafePresence Motion Detector and all components daily and before each use. Inspect the unit for damage regularly. Replace any damaged or worn components immediately. Contact your distributor if the Motion Detector needs repair. Do not disassemble or alter the product.

CLEANING

- 1. Clean the SafePresence Motion Detector with a damp (not wet) rag using non-caustic cleaning agents.
- 2. Never immerse the system or pager in any liquids.

STORAGE

- 1. Store the SafePresence Motion Detector in a safe place and in an area free from high humidity and temperature.

TROUBLESHOOTING

⚠WARNING⚠

Contact your distributor if the Motion Detector needs repair. Do not disassemble or alter the product.

If you are experiencing problems with your SafePresence Motion Detector, refer to this Troubleshooting Guide. If you need additional assistance, contact your distributor.

SAFEPRESENCE MOTION DETECTOR

Problem	Cause	Solution
LED Light does not light up.	Low battery.	Replace battery.
No alert sounds on sensor or chime.	Low battery.	Replace battery.
	Object not in range of sensor.	Adjust sensor angle or location.
	Interference.	Adjust sensor angle or location. Move pager within range of sensor.
Volume too low	Low battery.	Replace battery.
	Pager speaker covered.	Uncover/move pager.
		Turn volume from Low to High.

Move sensor/pager and test.

IMPORTANT SAFETY INSTRUCTIONS

Read these important instructions THOROUGHLY before using the SafePresence Motion Detector.

When using the SafePresence Motion Sensor, instructions, particularly warnings and cautions should always be followed. Failure to read and follow these instructions, warnings and cautions may result in damage to the product, fire, electric shock, or personal injury or death.

Test the Motion Detector daily and before each use.

- 1. Read all instructions.
- 2. Follow all warnings and instructions including those marked on the product(s).
- 3. The Motion Detector is only an aid for caregivers and is not designed to replace proper nursing care including, but not limited to 1) visual monitoring 2) direct patient supervision 3) proper training for all caregivers using the system 4) testing the system daily and before each use, and 5) immediate caregiver response to the alerts. The SafePresence Motion Detector and accessories may not be suitable for all individuals.

GENERAL

- 1. Train each caregiver that uses the Motion Detector system. Keep a record of all training.
- 2. Keep the Motion Detector system dry and away from water or other liquids at all times. The Motion Detector system is not water resistant and operation may be affected by liquids and high humidity.
- 3. Contact your distributor if the SafePresence Motion Detector needs repair. Do not disassemble or alter the product.
- 4. Mount sensor in locations where there is minimal risk of tampering.

BATTERY SAFETY

- 1. Only use 9V alkaline batteries in sensor and pager.
- 2. Check low battery alerts on sensor and pager continuously. When LED lights start flashing, discontinue use and replace batteries immediately.
- 3. Remove batteries when not using the device for an extended period of time.
- 4. Keep batteries dry.
- 5. Children should not handle batteries unless supervised by an adult.
- 6. If batteries leak, discontinue use. Remove batteries. Clean and wipe off battery case and contact your distributor.
- 7. Test the sensor and pager when batteries are replaced.

DEVICE DISPOSAL

- 1. Dispose of batteries properly and in accordance with applicable local laws. Do not burn batteries. They may explode.
- 2. Recycle electrical products. Check with your local authority for recycling information. Do not dispose electrical products with household waste.



OPERATING AND STORAGE

- 1. Use Motion Detector system in areas not subject to dust, high humidity, and high temperatures.
- 2. Avoid placing sensor and pager in direct sunlight.
- 3. Keep open flame sources, such as lighted candles, off sensor and pager.
- 4. Wipe the outer surface of the Motion Detector sensor and pager with a soft, damp – not wet – cloth. Do not use benzene, thinner, or any abrasive powder for cleaning the system.
- 5. Operating and storage: 0° to 50° C.

IMPORTANT SAFETY INSTRUCTIONS

SERVICE

1. Only qualified personnel can perform repairs on the SafePresence Motion Detector. Attempting to repair the unit yourself or by someone other than an authorized representative may damage the unit and will void the manufacturer's warranty. Discontinue use and contact your distributor if any of the following situations occur:
- Liquid has been spilled or objects have fallen onto the sensor or pager
  - The sensor or pager has been exposed to rain or water
  - The sensor or pager are very hot to the touch
  - The Motion Sensor does not operate normally by following the instructions in this instruction manual
  - The SafePresence Motion Detection or accessories exhibit a change in performance

INTERFERENCE / RANGE

The Motion Sensor system and accessories operate on 433 Mhz (approximately). The optimum range between the sensor and pager 50 feet (15m) but range is affected by the operating environment in healthcare facilities as well as the home setting. Test the sensor and pager daily and before each use.

⚠WARNING⚠

TEST THE SENSOR AND PAGER DAILY AND BEFORE EACH USE.

TEST THE SENSOR AND PAGER EACH TIME BATTERIES ARE REPLACED. Proper use of this system requires ongoing testing.

TEST THE SENSOR AND CHIME DAILY AND WHENEVER THERE IS A CHANGE IN THE OPERATING ENVIRONMENT (ie. the addition of phones, washers, dryers, microwaves, computers, refrigerators, computers, and other electrical equipment).

1. Place the SafePresence Motion Detector away from electrical appliances such as:
- |                     |                                |                        |
|---------------------|--------------------------------|------------------------|
| ■ Electric Blankets | ■ Fluorescent Lamps and Motors | ■ Televisions          |
| ■ Computers         | ■ Phone Systems                | ■ Electrical Equipment |
| ■ Ham Radios        |                                |                        |
2. Keep components free from smoke, dust, direct sunlight, heat sources such as heaters and cooking apparatus, high temperatures, damp basements, and vibration.
3. Communications between the sensor and pager may be impaired by metal or steel objects.
4. Inspect sensor and pager regularly for signs of damage. Contact your distributor for repair.

FCC Part 15. This equipment has been tested and found to comply with the limits for a Class B Digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

USING THE SAFEPRESENCE MOTION DETECTOR

INSTALLING BATTERIES

The sensor and pager each require one 9V battery (not included).

Remove sensor from bracket by gently separating the bracket arms. When replacing, a firm click indicates the sensor is firmly in place.

Battery Installation for Either Unit:

1. Locate the battery compartment.
2. Press the arrow on the battery compartment cover.
3. Slide cover open.
4. Insert the battery, snapping it securely into the contacts.
5. Replace the battery cover.

Battery Removal from Either Unit:

1. Locate battery compartment.
2. Press down the arrow on battery compartment cover.
3. Slide cover open.
4. Remove the battery.
5. Dispose battery properly.

AC POWER

⚠WARNING⚠

Only use SafePresence adapters (sold separately) with the Motion Detector. If other adapters are used, the system may be damaged. Discontinue use.

An adapter jack is on the SafePresence Pager. The adapter is sold separately. Contact your distributor for more information.

USING THE SAFEPRESENCE MOTION DETECTOR

TESTING

Sensor Set Up

⚠CAUTION⚠

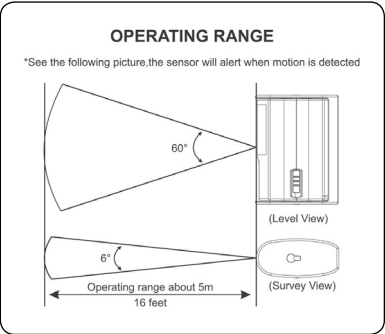
The alarm/chime may not be activated by waving a hand in front of the unit. Test by simulating use.

To Test:

- 1. Turn sensor on by selecting “CHIME” or “REMOTE” on the sensor.
- 2. Turn chime on.
- 3. Simulate intended use of the system (ie. walk through the door, get up from bed).
- 4. Alarm/chime will sound.

Test Range:

- 1. Turn sensor on.
- 2. Turn chime on.
- 3. Wait 10 – 60 seconds.
- 4. Walk or move in and around sensor area.
- 5. The chime/alarm will not sound if you walk beyond detection range.
- 6. Adjust location or angle of sensor.



SETTING THE CODE

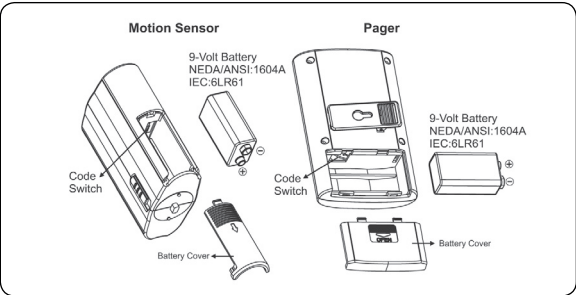
⚠WARNING⚠

Using multiple sensor and/or pagers can create interference in the detection system and affect system operation. Alarms may not be heard. Test a multiple sensor and/or pager set up before use.

The SafePresence sensors and pagers each have a code switch that is located inside the battery compartment. The pins of code switch are pre-set at the same direction at the factory and matches one sensor to one pager.

By changing the code, caregivers are able to use multiple sensor and/or multiple pagers. For example, one pager may be used to receive alarms from one or more sensors.

To use more than one sensor or pager, contact your distributor.



PREPARATION

PACKAGE CONTENTS

When you receive your SafePresence Motion Detector blister pack inspect the contents.

Your blister pack should include:

- 1. Sensor.
- 2. Pager.
- 3. Screws for mounting.
- 4. Set of Instructions.

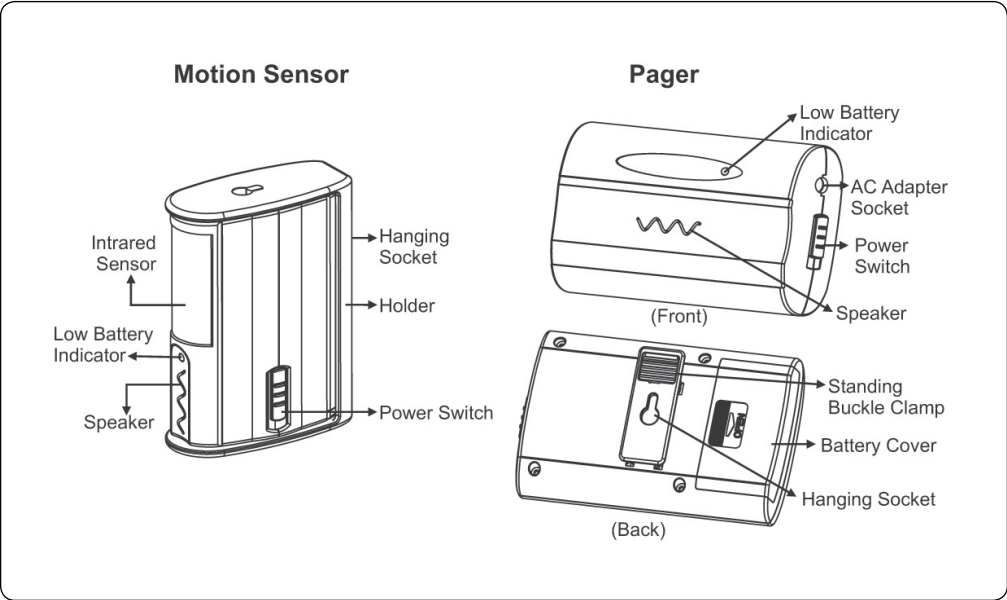
The sensor and pager each require a 9 volt alkaline battery for operation. Batteries are not included. Check the contents immediately. If any items are missing from the box, please contact your distributor.

⚠WARNING⚠

Read these instructions and put them in a safe place for future use, along with a record of all training. All caregivers using the motion detector should read and follow these instructions.

Call your distributor or visit [www.safepresence.com](http://www.safepresence.com) for information on the motion detector.

PRODUCT DIAGRAMS AND FUNCTIONS



USING THE SAFEPRESENCE MOTION DETECTOR

INFORMATION FOR CAREGIVERS

⚠WARNING⚠

The SafePresence Motion Detector is only an aid for caregivers and is not designed to replace proper nursing care including, but not limited to 1) visual monitoring 2) direct patient supervision 3) proper training for all caregivers using the system 4) testing the system daily and before each use, and 5) immediate caregiver response to the alerts. The Caregiver Communicator and accessories may not be suitable for all individuals.

The SafePresence Motion Detector senses movement. It sounds a local alarm (on the sensor) or transmits alerts to a pager (remote alert) carried by caregivers. The unit is often installed to monitor a bed or doorway. Caregivers choose the placement and application that is best for the person in their care.

Screws (included) or Velcro® (sold separately) can be used to mount the sensor which is powered by a 9V alkaline battery. The pager is also battery powered. It has LOW or HIGH volume settings. LED lights on the sensor and pager become dim when the battery is low.

SYSTEM SETUP

When Choosing a Mounting Location:

- 1. The sensor can be adjusted in the bracket as needed.
- 2. If used to monitor a bed, motion can only be detected on the side of the bed the sensor is mounted on.
- 3. Sensor beam is perpendicular to the floor when sensor is mounted vertically.
- 4. Sensor beam is parallel to the floor when mounted horizontally.
- 5. Detection beam extends up to 16 feet from sensor. Test to determine field before use.
- 6. Keep the monitored area secure by using privacy curtains or other items to reduce false alarms.

⚠CAUTION⚠

The SP sensor requires (1) one 9 Volt alkaline battery (not included). Install battery before use.

- 1. Select mounting location.
- 2. Carefully spread bracket open.
- 3. Remove sensor.
- 4. Slide battery cover off.
- 5. Insert 9V battery (not included).
- 6. Replace battery cover.

⚠WARNING⚠

Snap battery securely into battery contacts. Test before each use.

Tools Needed to Mount:

- Pencil.
- Drill.
- Screwdriver.
- 3 screws (included).
- Option Mounting: Velcro (sold separately).

To Mount Bracket:

- 1. Position bracket on mounting location.
- 2. Mark holes with pencil.
- 3. Drill pilot holes.
- 4. Insert screws.
- 5. Hang bracket on the screws.
- 6. Tighten the screws.
- 7. Replace sensor.

USING THE SAFEPRESENCE MOTION DETECTOR

PAGER SETUP

The Pager can be:

- 1. Mounted using the hanging socket.
- 2. Placed on a flat surface using the standing buckle clamp.

Installing Batteries:

- 1. Remove battery cover.
- 2. Insert one (1) 9V alkaline battery.
- 3. Replace battery cover.

⚠CAUTION⚠

A firm click indicates the sensor has been properly placed in bracket.

Choose between different alert types:

- 1. Choose local alert by pressing “CHIME” on the sensor.
- 2. Choose remote alert by pressing “REMOTE” on the sensor.

Local Alert:

- 1. Turn Sensor power on by selecting “CHIME” on sensor.
- 2. A 10 second delay allows staff to exit monitored area.
- 3. When object enters monitored field, local alarm sounds.

Remote Alert:

- 1. Turn Sensor Power on by selecting “CHIME” on sensor.
- 2. Turn Pager Power on by selecting “HIGH” or “LOW” on pager.
- 3. A 10 second delay allows staff to exit monitored area.
- 4. When object enters monitored field, pager sounds.

Tone Selection on Pager:

- 1. There are 8 tones selectable by pressing button inside the battery compartment.