

Pace-alert mini

The Pace-alert mini detects strong AC electrical, magnetic and high frequency (RF/microwave) fields that may interfere with the functioning of cardiac pacemakers and implantable defibrillators. Upon detection of such fields, the Pace-alert mini warns recipients with an audible alarm so they can quickly move from potential causes of interference.



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About Electric Magnetic Fields (EMF)

Pacemaker and implantable defibrillator manufacturers, as well as cardiologists, commonly warn patients to avoid sources of electric and magnetic field (EMF), and high radio frequency (RF) sources. However, EMF and RF are invisible, but present in many locations such as homes, workplaces and public areas. Osun's Pace-alert mini helps recipients of pacemakers and implantable defibrillators avoid such electrical interferences.

Osun's Pace-alert

Osun's Pace-alert is the first personal detector of EMF and high frequency fields for pacemaker and implantable defibrillator recipients. The Pace-alert has a pre-set threshold based on pacemaker manufacturers' published specifications and includes enough safety margin (at least 30%) to provide early warnings before the sources actually interferes with the pacemaker or implantable defibrillator.

The mini version is much smaller than the full-scale Pace-alert. The smaller size makes the alert more portable and discrete for recipients, but there are trade-offs. The mini does not have electrical field detection, and does not indicate which type of field that triggered the alarm. The Pace-alert mini has three light-emitting diodes (LEDs) to indicate the status of the unit. The "power" green LED shows the power status of the unit. The two red LEDs represent alarms for EMF (LF), high frequency (HF) fields respectively, and will be on individually or jointly when one or more sources are detected that are stronger than the thresholds.

For LF, alarm threshold is 1.5 Gauss, calibrated at 55 Hz (for both of 50 and 60 Hz). Frequency range is from 30 to 5 KHz.

For HF, alarm threshold is 100 V/m (2.65 mW/cm²), calibrated at 2.45 GHz (microwave oven). Range is from 500 KHz to 5.5 GHz.

Unit is powered by two CR2032 3V button batteries that are included. Current drain is below 20mA without alarm.

User Instructions

1. Slide the button to "on". The red LED lights will flash initially. Notice that the "power" LED is usually OFF to save battery life.
2. Use the unit to test all the electrical devices in your home and work environments. Turn the alert on when going to new places.
3. Turn the switch off after use. This will prolong the battery life.
4. The "power" LED will light to indicate low battery life. Replace the batteries when the "power" LED is noticed to be lighted. Please pay attention to the polarity (+ face up as indicated in the battery drawer).

Testing of Pace-alert

It is recommended that the unit be tested monthly. Common sources of EMF that should be used to test the unit include.

1. The door seal of microwave ovens that are in operation.
2. Less than 1 inch from the AC/DC adaptor used for the answering machine, CD players, or other small appliances.

To test, just place the Pace-alert near these sources. If the alarm goes off, you know the unit is working. If the alarm does not go off check batteries or contact Osun. It is not recommended that recipients of cardiac devices stay near the source for a long period of time.

Warranty and annual calibration

One-year warranty for parts and services. After first year, we provide annual calibration service with nominal charge. Please email or call for this service.

Power consumption and battery

Current: about 10 mA. It is strongly suggested that you have extra batteries available when you are on a trip or expect extended use. To replace the batteries, find the pullout battery drawer on the back of the unit, and then:

Use your left thumb to push the drawer latch to the right

Use your right thumb to pull the notch up to slide the battery drawer out

Insert two 3 V battery in the drawer compartment



Note: This is not a medical device. Use with caution and common sense. Do not rely solely on this device as there are some types of electromagnetic fields (a magnet for example) which it will not detect and some circumstances in which a potentially harmful field might be temporarily undetectable. The Pace-alert mini should be carried near the body: either in the hand, on a necklace or belt, or in a convenient pocket which does not block (shield) the sensors and which allows the user to hear the alarm.