



# ERA-PIR & ERA-DCRX

## Owner's Manual

This device complies with Part 15 of the FCC rules, Operation of this device is subject to the following conditions: 1. This device may not cause harmful interference. 2. This device must accept any interference, including interference that may cause undesired operation.

### Introduction

The ERA-PIR is a passive infrared (PIR) sensor/transmitter compatible with the ERA-DCRX Receiver. The ERA-PIR is activated when a combination of heat & movement is detected in the monitored zone. When the transmitter is activated, it will send a signal to the receiver which will sound one (1) of twelve (12) different melodies or tones for a few seconds, and trigger the 12V DC outputs and/or activate the relay output (if activated).

### Helpful Tips:

- Do not mount the transmitter (ERA-PIR) to the wall or door frame until you have successfully paired & tested the device.
- Each receiver (LRA-DCRX) is capable of pairing with four (4) transmitters per zone.
- There is virtually no limit to the number of receivers (ERA-DCRX) a transmitter may be paired to.
- Each zone on the LRA-DCRX features 1 x 12V DC output.
- Output duration for the 12V DC output may be set to 5 sec, 10 sec, 1 min, & 2 min.
- The receiver (LRA-DCRX) features 1 x C-Form relay assignable to one (1) or multiple zones & will take on the duration of the 12V DC output.
- Volume control: 4 levels plus mute, plus off.
- Each transmitter must be paired to a zone on the receiver.
- Each zone on the receiver is programmed to the "ding-dong" sound from the factory. User may change this melody.
- When transmitter battery is low, it sends a signal to the receiver when triggered & the corresponding LED on the receiver will continue to flash for 10 minutes.

### ERA-PIR Battery Installation:

1. Remove the screw located on the backside of the case. Once the screw is removed, open the case.
2. Remove top half of case from lower case half of the case to find the battery holder.
3. Install a 9-volt alkaline battery in the holder and place the battery into the battery compartment.
4. Prior to reassembling the case we recommend pairing the transmitter to the receiver.
5. Follow the instructions for "**Pairing Transmitter to Receiver**".

**Note:** When the battery gets weak, it will cause the LED of the paired zone on the receiver (LRA-DCRX) to flash for approximately 10 minutes when triggered.

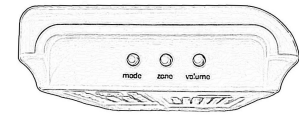
### Programming the Transmitter to a Receiver:

*(Always test unit prior to final installation)*

The transmitter works with the ERA-DCRX receiver & basic programming calls for the user to program each transmitter with a receiver & select a melody for the transmitter to instruct the receiver to play when triggered.

*For quick setup, however, each zone defaults to a basic "ding-dong" sound allowing you to easily pair the transmitter for a faster set up process.*

1. On the ERA-DCRX receiver, hold down the "mode" (left button in figure 2 below) button until you hear a short tone sound & the "zone 1" LED flashes (approx 3 sec).
2. If you are programming the transmitter to zone 1, push the small test button on the circuit board or wave your hand over the lens. You will hear the receiver play a short musical note (zone 1 will continue to flash).
3. If necessary, to program a transmitter to a different zone, press the "zone" button on the receiver to scroll to the appropriate zone. The zone you want to program will flash. Repeat step 2 above.
4. Once you have programmed all transmitters to a zone on the receiver, move to the next step.
5. To exit program mode, hold down the "mode" button until you hear a short tone sound (approx 3 sec)



(Figure 2)

### Changing the Zone Melody:

*By default, each zone is programmed by the factory to play the ding-dong sound. You can skip this step if you are ok with that sound.*

1. Hold down the "zone" button until you hear a short tone & all LEDs on front panel of receiver are red (approx 3 seconds). The zone you are programming will flash.
2. Press the "volume" button to scroll through the 12 available melodies for selection. Once you find a melody you like, move to step 3.
3. Press the "zone" button to scroll to the next zone & repeat step 2 to program a melody to other zones.
4. Once you have programmed a melody to all necessary zones, move to step 5.
5. Hold down the "zone" button until you hear a short tone sound (approx 3 seconds) notifying the receiver is out of melody programming mode.

### Volume, Mute, Off:

*The volume button on the side of the receiver controls the four different volume levels, mutes & turns off the receiver. Pushing the volume button controls these functions.*

- When all four zone LED lights are red, this indicates maximum volume.
- Three zone LED lights indicate the third volume level.
- Two zone LED lights indicate the second volume level.
- One zone LED light indicates the minimum volume level.
- No zone LED lights & a red power indicator light means the receiver is muted.
- No LED lights (no zone LED or power indicator) means the unit is off. Pushing volume again turns it back on to max volume.

## Erasing Programming (memory):

Following the instructions below will erase the programming of transmitters in ALL zones.

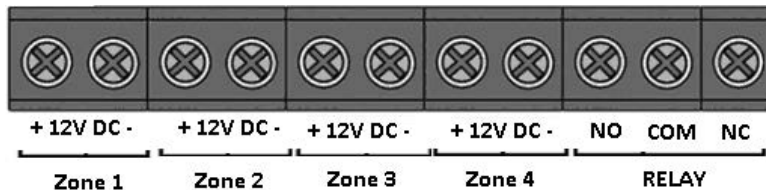
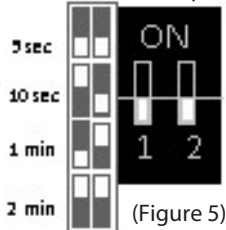
1. Hold down "mode" button until you hear a short tone & the zone 1 LED flashes.
2. Hold down the "mode" & "volume" button simultaneously until all LEDs stop flashing & you hear a short melody sound (approximately 5 seconds).
3. All LEDs will stop flashing & only the green LED power indicator will display. The memory is now erased.

## Using 12V DC Outputs:

- Each zone on the ERA-DCRX features a live 12V DC output.
- The output duration may be set to 5 seconds, 10 seconds, 1 minute or 2 minutes using the dip switches located inside the receiver.
- The output duration settings will apply to all zones & the C-Form Relay.
- The C-Form Relay may be associated with a specific zone or multiple zones.
- 12V DC output current: 400mA maximum.

## Connecting a 12V DC Device:

1. Unplug the receiver.
2. Separate top receiver case from bottom receiver case.
3. Locate terminal block (see figure 4) located on the bottom of the pc board.
4. Loosen screws for the zone(s) that you are connecting a device to.
5. Wire the external 12V DC into the terminal connection blocks that corresponds to the respective zone. *For example, if a push button is paired to zone 1, and you want a strobe to flash for zone 1, wire the strobe into the terminal block for zone 1.*
6. Observe polarity when necessary. *For example, for a strobe light, ensure you are connecting the positive wire on the strobe to the positive terminal on the receiver.*
7. Re-tighten screws on terminal block.
8. Adjust output duration as needed (figure 5)
9. Snap cover back together.
10. Plug in receiver.



## Using the Relay:

The last three screws on the terminal block referenced in Figure 4 are for the relay. The relay opens or closes a circuit in another device.

Unlike the 12V DC outputs available for each zone, the Relay does not generate power to the external device. To use the relay you must ensure the external device has a power supply.

The relay may be associated with any combination of zones 1-4 and will use the same duration as set for the 12V DC outputs.

## Mounting the Transmitter:

- The PIR sensor (transmitter) may be mounted in a variety of locations such as; on the ceiling, directly above the door, or side mounted. The most common mounting location is above the door.
- For best results, mount the transmitter above the door frame slightly canted in towards the door. You may cant (tilt) the unit to ensure the monitored zone is covering the area you want it to cover.
- Avoid placing the transmitter near heating & A/C ducts, or in direct sunlight to help eliminate false signals.
- Use included screw to mount the metallic bracket. We recommend mounting the bracket so that the openings on each end of the bracket are facing up (shaped like a "U").
- Each side of the transmitter has a screw protruding. That screw slides into the U-shaped openings of the bracket.
- Tighten the screws on the side of the case just enough to keep it in place (do not let it fall out) while you tilt it how you want it.
- Tighten the screws on each side of the case to secure it to the bracket.

## ERA-DCRX Technical Specifications:

- Frequency: 433.92 MHz
- 12V DC output current: 400 mA max
- Operating voltage: 12V DC
- Relay rating: 24V DC at 3 Am

## TECHNICAL SUPPORT

If you encounter any difficulty in the operation of this product after reading the manual, please contact us. You can reach us by phone at 904-245-1184 from 8:00 AM to 5:00 PM Monday through Friday (Eastern Standard Time). We will be happy to answer your questions and help you in any way we can.

## WARRANTY

Safeguard Supply warrants this product to be free of defects in material and workmanship for a period of one year from the date of purchase. This warranty does not cover damage resulting from accident, abuse, act of God or improper operation. If this product does become defective, simply return it to Safeguard Supply. Please include a note describing the troubles along with your name and return address as well as the original sales receipt. If the product is covered under warranty it will be repaired or replaced at no charge. If it is not covered by warranty, you will be notified of any charges before work is done.

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## LEGAL NOTICES

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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 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

**WARNING:** Cancer and Reproductive Harm. Go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov) for more information.