



# **DA** Dakota Alert, Inc.

## **DCR-2500**

Wireless Receiver

*User Guide*



[www.dakotaalert.com](http://www.dakotaalert.com)



## **WARNING:**

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 DCR-2500 receiver can be used with any of the Dakota Alert 2500 series transmitters. The DCR-2500 plugs in to a standard wall outlet and can be placed on a table or mounted on the wall. When the receiver gets a signal from the transmitter one of 4 different tones (Classical, Westminster Chime, Ding Dong, Whistle) will sound for a few seconds. There is also a volume control so you can set the sound to the desired level. The receiver is also equipped with 4 form "C" relays (one for each zone) and one 12 VDC output terminal that can activate when a signal is received. The receiver can be user programmed so the 12VDC terminal and relays will activate for 1 second, 10 seconds, 60 seconds or 10 minutes. The tones will sound for several seconds.

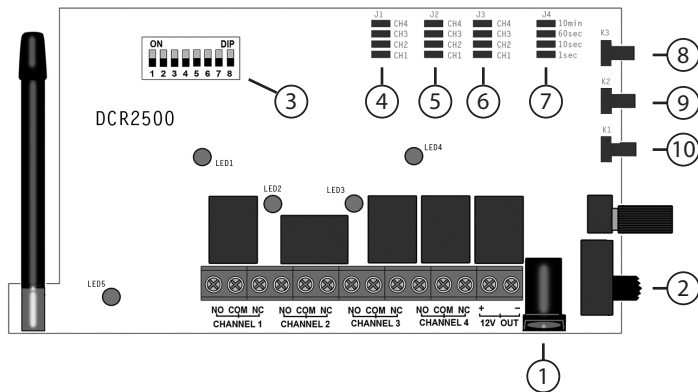
## **OPERATION:**

1. Connect the end of the power supply to the receiver (Figure 1-1).
2. Plug the power supply into a wall outlet
3. Locate the off/on switch and move to the "on" position (Figure 1-2).





Figure 1



For maximum range between the transmitter and receiver, the receiver should be mounted horizontally on a wall and as high off the floor as possible. Although the maximum range is about ½ mile, things such as hills, trees, metal siding and stucco can all reduce the range.





### CODING THE RECEIVER:

1. Open the receiver case by inserting a small screw driver into one of the pry notches on the side of the case.
2. Gently lift off the front cover.
3. Locate the 8 dip switches on the receiver (Figure 1-3) and make sure they are set identical to the first 8 dip switches on the transmitter. **Note: If more than one transmitter is used with the receiver, the first 8 dip switches of all transmitters must match the 8 dip switches of the receiver.**

**NOTE: Whenever a change is made to the jumpers or the dip switches, the receiver must be turned "OFF" and then back "ON" to operate properly.**

### CODING THE TRANSMITTER:

1. Locate the dip switches in the 2500 series transmitter. (refer to transmitter manual)
2. The first 8 dip switches are for the frequency setting (256 combinations). Set the first 8 switches to match the 8 switches in the receiver.
3. Switches 9 & 10 are for the zone/channel setting on the transmitter. The four zones are as follows:

Switch 9	Switch 10	Channel	Tune
On	On	1	Classical
Off	On	2	Westminster
On	Off	3	Ding Dong
Off	Off	4	Whistle





### **TONE, RELAY AND VOLTAGE OUTPUT:**

1. Each of the four transmitter zones (selectable by switch 9 & 10) will sound a tone and activate the corresponding relay on the receiver.
2. The form "C" relays are rated for 24 VDC at 3 Amp maximum current.
3. The 12 VDC output has a maximum current capacity of 400mA. To select the zone(s) that will activate the 12 VDC output, locate the jumper "J1" (Figure 1-4) and set the jumper to cover both pins on the selected zones. If the pins are not connected by the jumper, that zone will not activate the 12VDC output.
4. The relays and voltage can be set to activate for 1 second, 10 seconds, 60 seconds or 10 minutes. To change the output duration, locate the jumper "J4" (Figure 1-7) and move it to the desired time.

***Note: This jumper only changes the duration of the relay activation. The tone will only sound for several seconds regardless of how the jumper is set.***





## **ZONE LIGHTS:**

*The receiver has a red led light for each of the four zones. The lights can be set to blink for every activation up to ten and then repeat or turn on once for ten seconds when a signal is received.*

1. To have the leds flash once for ten seconds push the “C” button (Figure 1-8) for 0.5 seconds and release. The four leds will flash once and the zone led will turn on for ten seconds when a signal is received.
2. To have the zone led flash for each signal received (up to ten) and then repeat, press the “C” button for 0.5 seconds a second time and the four leds will flash twice.
3. To reset the flashing leds press and hold the “C” button for 2 seconds. The four leds will light for three seconds and the flashing will stop until the next signal is received.

## **REMINDER BEEP:**

The receiver has a reminder beep that can be set to “beep” every 15 minutes after a signal is received. The reminder can be set with the “A” button (Figure 1-10).

1. The reminder beep will only sound if the zone light is set to flash (see previous section on Zone Lights).
2. To activate the reminder beep press and hold the “A” button for 2 seconds. You will hear one beep.
3. To deactivate the reminder beep press and hold the “A” button for two seconds and you will hear two beeps.





4. To cancel the reminder beep press the “A” button for 0.5 seconds.
5. You can also use jumper “J2” (Figure 1-5) in the receiver to select which zones will have the reminder beep. If the jumper covers both pins for a zone, that zone will have the reminder beep. If the jumper is on only one pin, the zone will not have the reminder beep.

### **EXIT DELAY:**

The receiver can be programmed to have a 5 minute exit delay where it will not receive a signal from selected transmitters.

1. The jumper “J3” (Figure 1-6) can be used to determine which zone(s) you would like to use with the exit delay. To use the exit delay set the jumper to cover both pins for the desired zone(s).
2. To start the exit delay press the “B” button (Figure 1-9) for 0.5 seconds and release. The green led will flash for 5 minutes and during this time no signals will be received from the selected zones.

***NOTE: Whenever a change is made to the jumpers or the dip switches, the receiver must be turned “OFF” and then back “ON” to operate properly.***

Frequency: 433.92 MHz

Operating voltage: 12VDC

12 volt DC output current: 400 mA maximum

Relay rating: 24VDC at 3 Amp





**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 605-356-2772 from 8:30 AM to 5:00 PM Monday through Friday (Central Standard Time). We will be happy to answer your questions and help you in any way we can.

**WARRANTY:** Dakota Alert 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 Dakota Alert. 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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