

**SilentCall**<sup>®</sup>  
Communications

MEDALLION  
SERIES



## MINI RECEIVER

Installation and Operation Manual

Model # MR1214-MC  
418 MHz RECEIVER

Document #  
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Intertek  
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## General:

The Mini Receiver is a 418 MHz wireless alerting device equipped with 24 hour battery backup. Main Power is supplied using a Silent Call 18 watt AC/DC Wall mount Adapter P/N 890007-2. The Mini Medallion Series Receiver can store up to 20 from a possible one million, Silent Call 418 MHz Medallion Series transmitter address codes.

## Installation:

Installing the Mini Receiver consists of locating it where it can be noticed most effectively by the user. Plug the AC/DC wall mount adapter into any standard household 110VAC 60Hz outlet. Insert the adapters DC barrel plug into the Mini Receiver Barrel Jack Labeled "Power". Slide the power switch to the ON position and confirm the Power ON GREEN LED is illuminated under the top strobe lens. The receiver is now ready to be programmed.

## Programming:

**NOTE:** *All Medallion Transmitters will be required to be programmed to your new receiver. The receiver leaves the factory with the memory cleared.*

Apply power to the receiver as described in the Installation section.

With the receiver powered, press and hold the program button located at the back of the receiver case. All display icons will illuminate. Continue to hold the program button until the icons goes out (about 3 seconds) and then the GREEN PHONE icon blinks 3 times. Release the program button. The receiver display icons will come back on to indicate that the receiver is now in program mode. The receiver will remain in program mode for approximately 30 seconds, and the display icons will start to go out to indicate the program time remaining. While in program mode, the transmitter you wish to program must be activated (Trans-

mitting) for the receiver to memorize the code of the transmitter. The transmitter can be activated by pressing the test button on the corresponding transmitter. When the receiver receives the transmitted signal, it will memorize the code. The receiver should activate and flash the top strobe light, and the appropriate display icon will illuminate.

Programmed transmitter codes are retained in memory even when the power is removed.

## **Erase memory:**

*To erase all programmed codes:*

All Erase – Press and hold the program button, the Display icons will come on for about 3 seconds, go off and then the GREEN PHONE icon will blink 3 times. Continue to hold the program button an additional 3 seconds until the icons scroll in a counter-clockwise direction several times indicating all previous learned transmitters that were stored in memory have been erased. Release the program button and all previously learned transmitter codes will have been successfully erased.

## **Battery Backup Mode:**

In the event of a main power loss or failure of the wall adapter, the Mini Receiver will automatically enter into the battery backup mode. The Mini Receiver has been tested to provide at least 24 Hours of Battery backup operation with 15 minutes of Alerts. Located under the top strobe lens cover is an AMBER LED. The AMBER LED will blink once every 10 seconds, indicating Input DC power loss to the receiver and it is operating on the back-up battery. The AMBER LED will blink at a one second rate once the back-up battery has reached minimum operating voltage. Operating the receiver during a low battery indication is not recommended.

**IMPORTANT:** The Mini Receiver will need to charge two hours for every hour in Battery backup mode or a full 40 Hours after low battery indication to ensure complete battery recharge.

Mini Receiver operating on Main power and the amber LED is ON or blinks, indicates a failure of the unit. Return the MR1214-MC with AC/DC adapter to the manufacturer for repair.

## **Battery Replacement:**

The MR1214-MC Mini Receiver has a UNITECH 12VDC 800maH Ni-MH back-up battery. Silent Call Battery Part Number (BU-12). Replacement batteries can be ordered online at [www.SilentCall.com](http://www.SilentCall.com) or by calling 800-572-5227.

Carefully follow below instructions when replacing the battery.

Replace the battery pack as follows:

1. Place the unit on its side, using a flat bladed screwdriver or similar, insert into the plastic notches on the bottom of the unit. Gently twist blade and the bottom plastic housing will disconnect.
2. Place the unit on its feet, and pull the front plastic housing away from the back at the bottom until the top lens disconnects.
3. Hold the circuit board in place with one hand and remove the 2 pin white connector from the green battery pack by pulling it straight out.
4. The battery is secured in place with double sided tape. To remove the battery pack from the plastic case, hold the 2 wire harness close to the battery pack and rock the pack back and forth while pulling it out of the case.
5. Using the flat bladed screwdriver or similar, gently remove any excess tape from inside the plastic housing before installing the new battery.
6. Remove double-sided tape protective covering from the new battery pack before inserting into the case. Position the battery so the tape is on the top side, push the new battery into the plastic case in the same position as the old battery.
7. Reconnect the battery by plugging in the 2 pin connector to the circuit board, and tuck the wire harness beside the battery.

8. Set the receiver on a flat surface and position it with the front facing you. Take the front plastic cover removed in step 2, and align it with the back cover and squeeze the bottom portion of the two together. The top will not snap into place because the top lens cover is in the way.
9. Lift up on the front of the top lens cover so the locking tabs clear the plastic housing, snap the top portion of the front and back cover together, and push the lens cover back down and snap into place.
10. Place the ON/OFF switch to ON, Amber LED should blink at a 10 second rate. Indicating unit is operating on sufficient battery power.
11. Plug the unit into the wall power supply. Observe the Amber LED stops flashing and stays out.
12. Perform operation test of all Fire/Smoke detectors, CO detectors IAW testing section.
13. Battery replacement procedure completed.

### **LED Intensity Selection:**

Located on the back of the receiver at the top is a switch that will allow the user to select the brightness, or the Intensity of the LED's. LED intensity High, Medium, and Low selections are available. When making the selection of the LED brightness make sure the LED strobe is off and the receiver is not processing a received alert.

It is recommended by the National Fire Protection Agency that when this unit is used for a fire indication to use the high setting.

### **Operation:**

When the Mini Receiver detects a signal from a Silent Call Medallion Series pre-programmed transmitter, it illuminates the corresponding indicator icon and activates its built-in High Intensity LED strobe light. The indication will continue for approximately 16 seconds after the transmitted signal ceases. As long as the Medallion Series Smoke Detector, Fire Alarm Transmitter, or CO

Detector continues to send an alert signal, the Mini Receiver alerting mechanisms will remain on. The Mini Receiver has a Coded vibrator output for use with the Silent Call Bed Vibrator P/N VIB-PJ.

### **Optional Bed Vibrator Auxiliary Output:**

Located on the rear of the Mini Receiver is an auxiliary output jack labelled "Vibrator" for interfacing Silent Call VIB-PJ bed vibrator. See the chart below for the vibration pulse pattern. The pattern repeats during the 16 second receiver cycle.

|                                    |                                       |
|------------------------------------|---------------------------------------|
| Carbon Monoxide Transmitter        | Three Short Pulses and One Long Pulse |
| Smoke Detector or Fire Transmitter | Continuous Short Pulses               |

## **Mini Receiver Display Indications and ICON Color**

### **Carbon Monoxide Detector**

CO5-MC Transmitter detects a warning from the CO detector.

CO

Red

### **Smoke Detector or Fire Transmitter**

SD4-MC Transmitter detects a Smoke/Fire warning



Red

### **Operational and Performance TESTING:**

Test the MR1214-MC after installation, repositioning of the receiver, associated transmitters are relocated, battery is replaced, the unit is repaired, or the receiver back-up battery is replaced. Test the Mini Receiver Fire/Smoke and CO alerts once a week to ensure proper operation of both the Detectors transmitters and the Mini

Receiver operation. Accessory transmitters programmed into the Mini can be tested at the user's discrepancy.

**IMPORTANT:** The Environment and Building Materials may affect the receiver reception. Locate Silent Call Medallion Series Transmitters and Receivers in an area away from High Wattage appliances and objects made from metals or alloys. Testing the Mini Receiver with Transmitters will help to locate a suitable location.

Fire/Smoke and CO Alert Test:

1. Program and Mount Fire transmitters and/or Smoke Detectors in desired location. Reference Transmitters Installation and Operation Manual for mounting location information.
2. Place Mini Receiver in a location to best view Strobe, Alert Icons, and use of optional Bed Vibrator if required.
3. Mini receiver requires Power from supplied AC/DC wall mount adapter. Plug AC/DC adapter into a 120VAC 60HZ wall outlet.
4. Plug opposite side barrel style plug into the MINI Power input Jack.
5. Turn Mini Receiver ON. Observe the Green LED is illuminated.
6. Remove the Barrel style power plug from the Mini Receiver and confirm the Green LED stays illuminated and that the Amber LED begins to blink once every 10 seconds.
7. Reinstall Barrel style Power Plug and verify Amber LED stops blinking and stays out.
8. Plug Bed Vibrator into Mini Receiver (Optional). Be sure 3.5mm plug is fully seated into the receivers jack.
9. Set LED Intensity to desired selection. High-Medium-Low.
10. If Mini Receiver is not visible from Fire transmitter or Smoke Detector location, a testing assistance may be required. When testing the Transmitter and Receiver a 16 second timeout will occur once the test button on the transmitter is released.
11. Locate and depress Fire transmitter or Smoke Detector Test button for approximately 3 seconds and release. Observe Mini Receiver and confirm following:



- Mini Receiver TOP THREE LED'S are flashing at a 1.5HZ rate.
  - Appropriate Mini Receiver RED FIRE or CO Alert is illuminated.
  - Bed Vibrator is Pulsing appropriate tactile code as listed in Optional Bed Vibrator Auxiliary Output section.
  - Green LED Remains ON. Amber LED Remains OFF.
  - Approximately 16 seconds after depressing Transmitter test switch Mini Receiver will Stop Flashing the Strobe, RED Fire or CO Light will go OUT, Bed Vibrator will no longer pulse.
  - Silent Buddy will return to Idle/Receive condition.
12. Repeat for each Fire Transmitter/Smoke Detector and CO detector installed weekly.
  13. Test all auxiliary transmitters in the same manner. Verify Correct ICON is displayed on front lens corresponding to the Medallion series transmitter tested.
  14. Testing Complete.

## **SPECIFICATIONS:**

Frequency: 418 MHz

Power Adapter: Grand Power Model PA1015-3HU AC to DC Adapter. Input: 100~240 VAC 50~60Hz 0.4A  
Output: 16.0 VDC 1.12A, 18 Watts Max.

OR

Grand Power Model BA018-160112AXU AC to DC Adapter.

Input: 100~240 VAC 50~60Hz 0.5A

Output: 16.0 VDC 1.12A, 18 Watts Max.

Backup Battery: 12 VDC Unitech 800 mAH Ni-MH Battery. P/N BU-12

## **WARNING:**

Use only Battery specified in marking. Use of a different battery will have a detrimental effect on alarm operation. Constant exposures to high or low temperatures or high humidity may reduce battery life.

Input: 16Vdc @ 0.5A Max. During Alert w/  
Strobe High and VIB-PJ in use.

Operating Ambient  
Temperature Range: 40° to 100°F (4.4° to 37.8°C)

Operating Humidity Range: 15% to 95% Relative Humidity,  
non-condensing

Agency Listings: Certified to UL-217 and UL-2034



**For Warranty Claims/Repairs Please Contact the Manufacturer:**

Silent Call Communications

5095 Williams Lake Road, Waterford MI 48329

800-572-5227

Please Visit [www.SilentCall.com](http://www.SilentCall.com)

**Technical Support**

For technical support on this or any other Silent Call product, please feel free to contact us. You can reach us by phone at 800-572-5227 (voice or TTY) or by Email at [technicalsupport@silentcall.com](mailto:technicalsupport@silentcall.com).

**Limited Warranty**

Your Mini Receiver is warranted to be free of defects in material and workmanship for five years from the date of initial purchase. During that time, the unit will be repaired or replaced free of charge when shipped prepaid to Silent Call Communications. This warranty is void if the defect is caused by customer abuse or neglect.