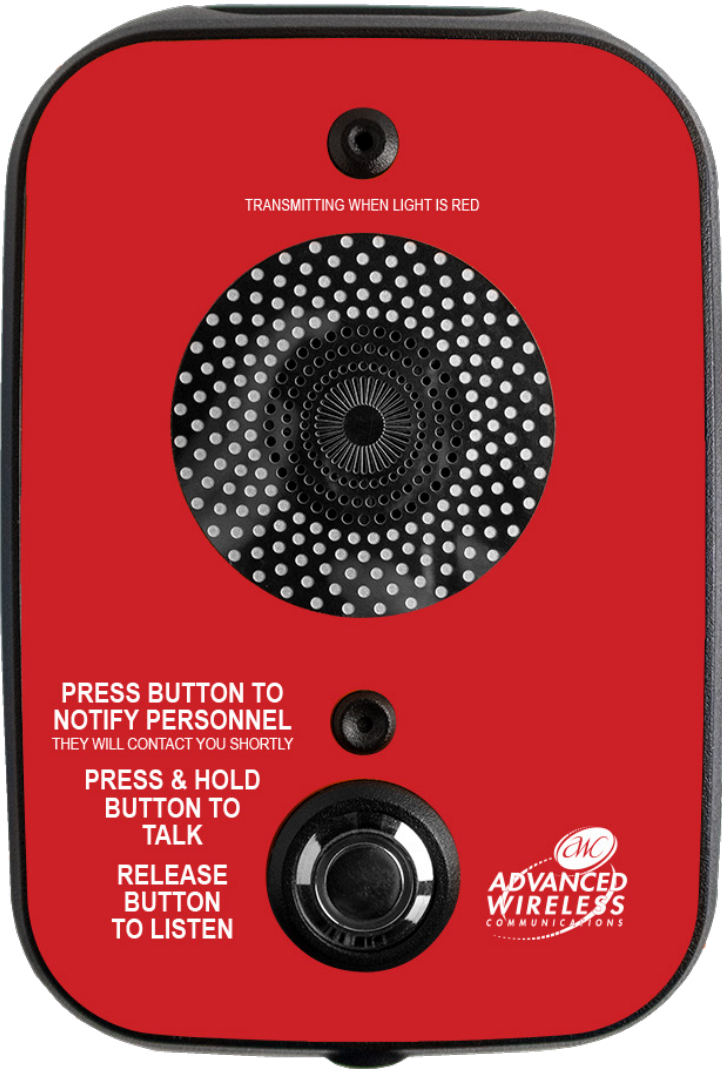
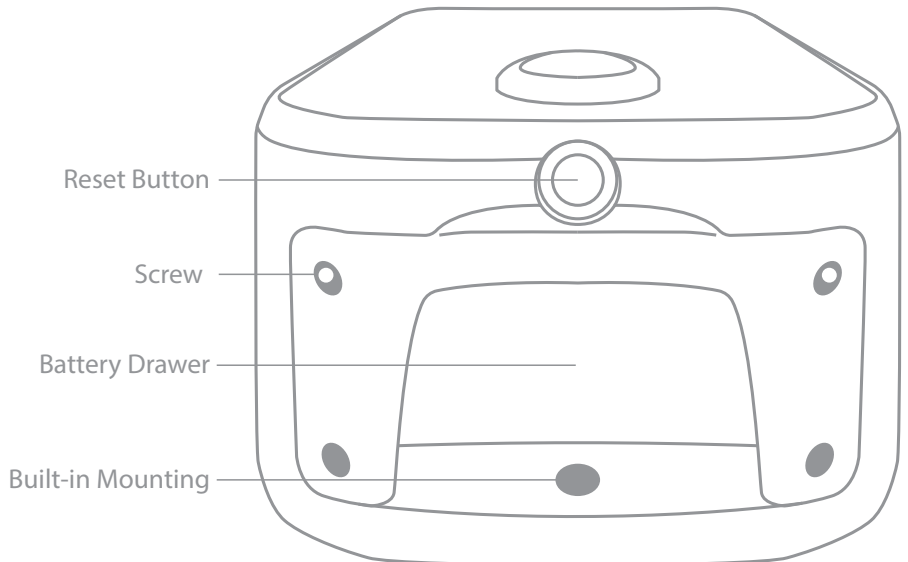
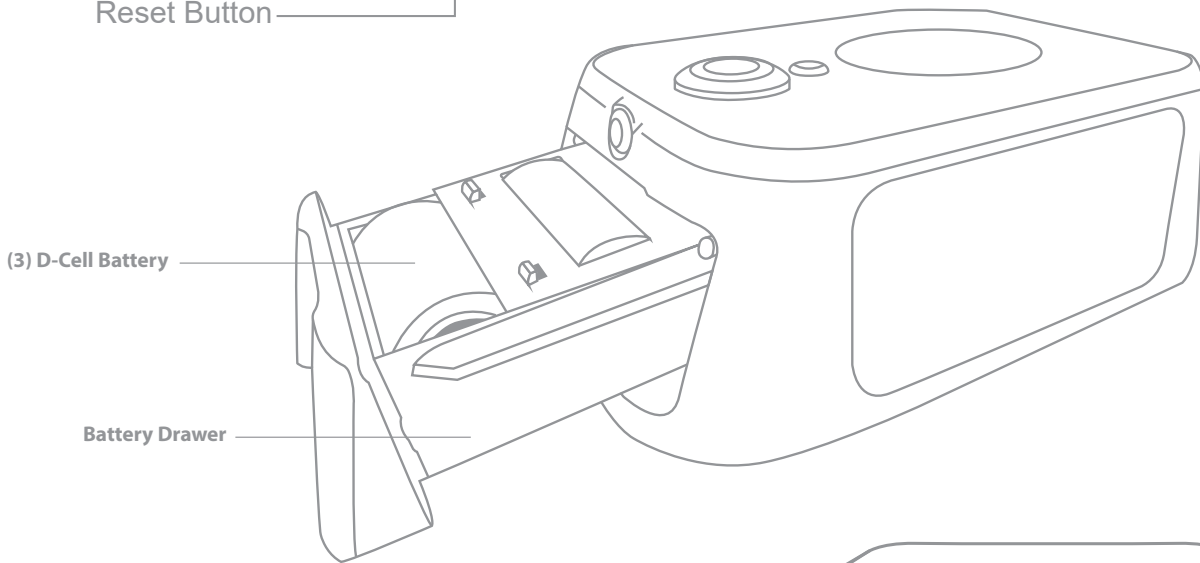
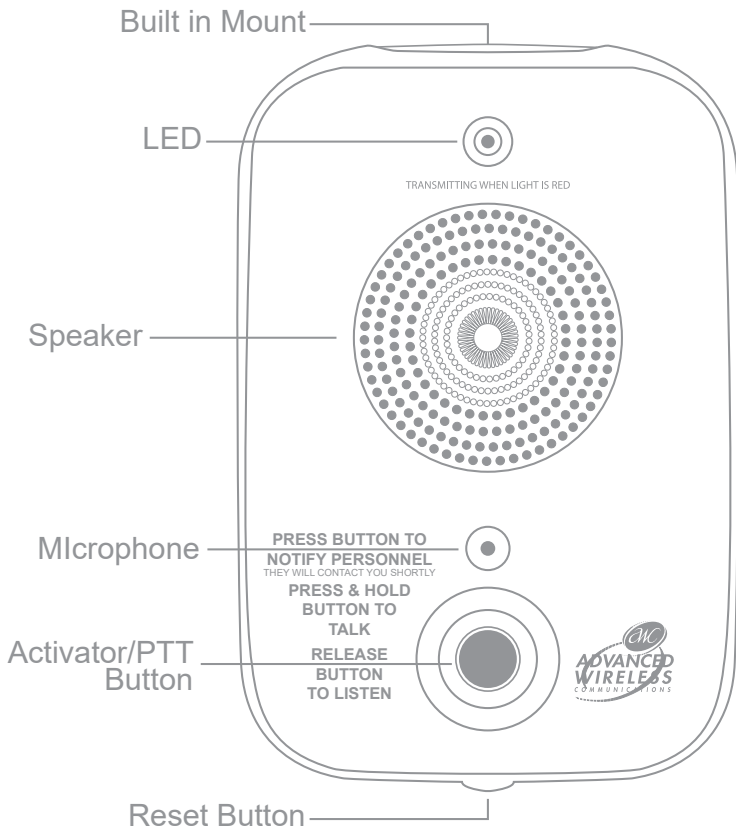


# AWR-CB2200 UHF Two-way Call box Operator Manual





## **AWR-CB2200 UHF Two-way Call box Features:**

- 450MHz to 470MHz Frequency Band of Operation - Analog
- .5W or 2W transmit power level
- Water resistant (IP67)
- Companding on/off
- Optional customized call box labels (front / two sides)(Special order)
- Battery Operated (3 D-cell)
- Easy battery replacement
- Very low current consumption when in 'Sleep Mode'
- Low battery monitoring / low battery alert to radio channel users
- Obvious Activation / Push to Talk button
- Less obvious reset button
- Local audio greeting message upon activation
- LED indicator when call box is active (awake)
- Busy channel monitor before transmit
- Available transmit message alert tone, 9 to choose from
- Locally recorded or pre-recorded .wav file audio messages
- Selectable 'Sleep Mode' delay timer. Automatically enters 'Sleep Mode' with inactivity.
- Adjustable local speaker volume
- Local audio to acknowledge call box clear
- Radio transmitted clear message available
- Two call box back covers are available
  1. Flat surface for wall mount or custom bracket applications (Standard)
  2. Built in counter-top stand or square pole strap mounting (Special order)

### **Specifications:**

- UHF, 450MHz – 470MHz
- Power output, .5/2W
- Battery power – three D cell
- Water Resistant (IP67)
- Size: H 8.1875" x W 5.1" x D 2.75"
- Weight: 2.25lbs.
- Operating Temperature range: -25C to +55

# AWR-CB2200 Two-way Call box Operation:

The AWR-CB2200 call box is configured for operation by your radio dealer. Proper frequency information and operating characteristics are configured using programming software. Your dealer will need to gather operational information from you before the call box can be deployed. Once configured, the AWR-CB2200 will operate in the following manner:

**Note:** If Associate communications are taking place at the time of the Two-way call box activation, the Two-way call box will suspend its “Message on Activation” transmission until the channel activity has stopped (if programmed to do so). While waiting to transmit the “Message on Activation”, the call box WILL NOT provide Associate transmit audio to the Two-way call box local speaker. The call box will not allow receive audio to be provided to the call box local speaker until the “Message on Activation” audio has been transmitted to the Associates radios. Likewise, after the Two-way call box Reset button has been pressed, the Two-way call box will no longer provide receive audio to the local speaker.

- The AWR-CB2200 will be in ‘Sleep Mode’ (off) the majority of the time. During ‘Sleep Mode’, very little current is being consumed allowing for extended battery life.
- A press of the ‘Activate’ button will cause the call box to ‘wake-up’ and perform its programmed duties.
  1. A short beep will be heard when the activate button is initially pressed.
  2. The ‘Speaker Message on Activation’ greeting message will be heard on the local call box speaker.
  3. If the radio channel is not busy, the call box alert tone (if programmed) followed by the ‘Message on Activation’ will be transmitted to the associated two-way radios. The status LED will be red when the call box is transmitting.
  4. When ‘Awake’, the status LED will flash green when the call box is not transmitting or receiving to indicate that the call box is active.
  5. The Two-way call box is now active and able to transmit or receive radio communications.
  6. For typical Two-way call box operation, an associate would now reply with an offer to assist and provide basic call box operating instructions to the call box user. Such as “press and hold the Activate button to talk, release to listen”.
  7. Press and hold the Activate / Push to Talk button to transmit, release to receive.
  8. If the Reset button is pressed while the call box is active, the call box ‘Speaker Message on Clear’ (if programmed) will be played to the local speaker.
  9. The call box ‘Message on Clear’ (if programmed) will be transmitted to the associated two-way radios.
  10. When the call box ‘Message on Clear’ message transmission is complete, the AWR-CB2200 Two-way call box will re-enter ‘Sleep Mode’.
  11. If the Reset button is NOT pressed, the Two-way call box will enter ‘Sleep Mode’ after the programmed period of inactivity.
  12. Whether the reset button is pressed or the call box enters ‘Sleep Mode’ due to inactivity, a short series of beeps are heard, at the call box local speaker, just prior to the Two-way call box entering ‘Sleep Mode’.
- Low Battery alert  
Each time the AWR-CB2200 call box is activated, the battery level is measured. If the battery level has dropped to a low battery level condition, the call box will process the ‘Low Battery Alert’ message at the end of the “Message on Activation”. The radio users will hear the low battery alert message. The call box local speaker will not hear the low battery alert message. The low battery alert is also transmitted after the “Message on Clear” if the reset button is pressed, OR just prior to the Two-way call box entering ‘Sleep Mode’ due to inactivity.
- Status LED
  1. Call box is active (awake)                    LED is flashing green
  2. Call box is receiving                        LED is steady green
  3. Call box is transmitting                    LED is steady red
  4. Call box is in Sleep Mode                    LED is off

## Advanced Operational Functionality:

- **Recording audio messages using the on-board call box microphone. The call box MUST be in 'Sleep Mode' when the following steps are started:**

1. Press the 'Activate' and 'Reset' buttons simultaneously until the status LED flashes two times.
2. Press the 'Activate' button one time. A beep will be heard from the local speaker.
3. Additional presses of the activate button will step through the available message numbers, 1 through 16. (See default message list in "Notes" below)
4. Press the 'Activate' button until the desired message number has been selected.
5. Press the reset button to start recording.
  - Speak clearly into the call box microphone.
  - When the message is complete, press the reset button again to stop recording.
    - NOTE:** Pressing the reset button a second time at this point will enter local speaker 'Volume Set' mode. See "Adjusting the Volume Level ..." below for volume set details.
6. Press the 'Activate' button to remain in record mode. A beep will be heard.
7. Press the Activate button to select the next audio message number to record.
8. Repeat step 5 through 7 above for all desired audio messages.
9. To exit audio record mode, press and hold the reset button until the status LED flashes red one time.
10. The power off beeps will be heard as the call box enters "sleep mode".

**Notes:** When recording messages, speak clearly at approximately 6 to 12 inches from the call box microphone.

A slight pause after pressing the reset button to start the recording is recommended.

Default message numbers:

- Message 1 – Speaker message on activation
- Message 2 – Transmit message on activation
- Message 3 – Speaker message on clear
- Message 4 – Transmit message on clear
- Message 5 – Low battery alert

- **Adjusting the volume level of the call box local speaker. The call box MUST be in 'Sleep Mode' when the following steps are started:**

1. Press the 'Activate' and 'Reset' buttons simultaneously until the status LED flashes two times.
2. Press the reset button one time. A beep will be heard from the local speaker.
3. Additional reset button presses will increment the volume level up, activate button presses will increment the volume level down.

**Note:** There are 16 volume levels. 1 is the lowest, 16 is the highest.

4. To exit volume adjust mode, press and hold the Reset button until the status LED flashes red one time.
5. The 'power off' beeps will be heard as the call box enters "Sleep Mode".

- **Test the Two-way call box. Press the Activate button to confirm desired audio messages and local speaker volume. Press the Reset button to confirm desired audio messages.**

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