AWR-CB2100 UHF One-way Call box Operator Manual

Built in Mount

LED

TRANSMITTING WHEN LIGHT IS RED

Speaker

MIcrophone

PUSH FOR SERVICE
PLEASE STAY AT
THIS LOCATION
WE WILL BE WIT
YOU SHORTLY

Activator

ADVANCED WIRELESS
COMMUNICATIONS

Reset Button

(3) D-Cell Battery

Battery Drawer

Reset Button

Screw

Battery Drawer

Built-in Mounting
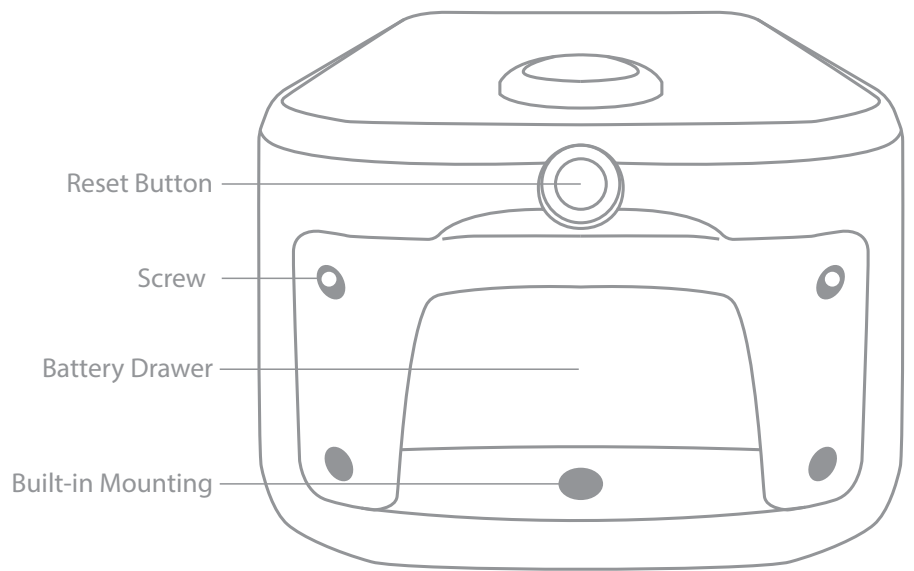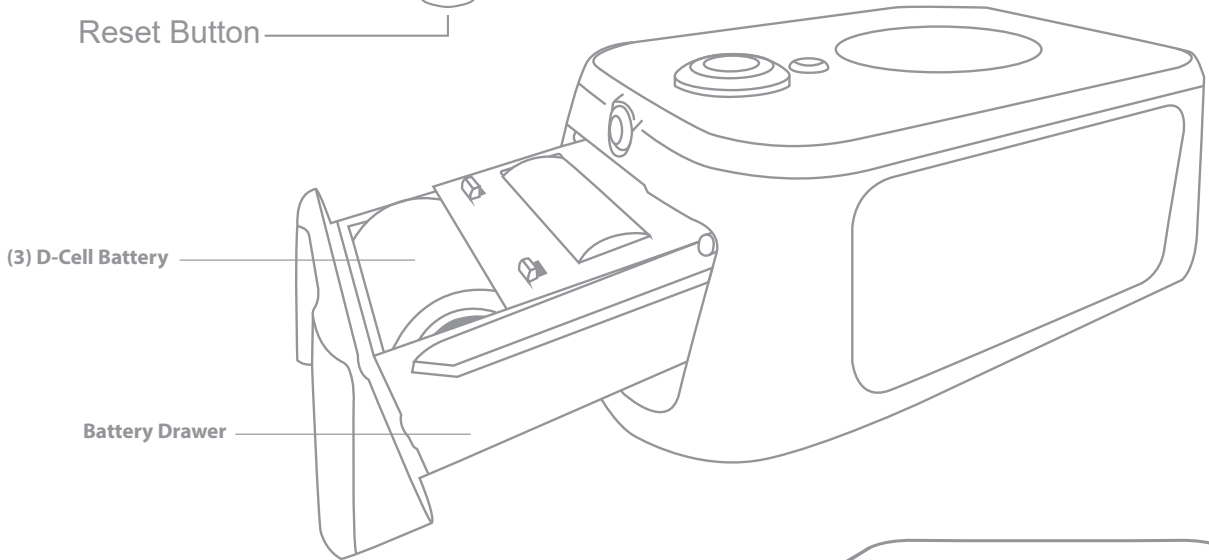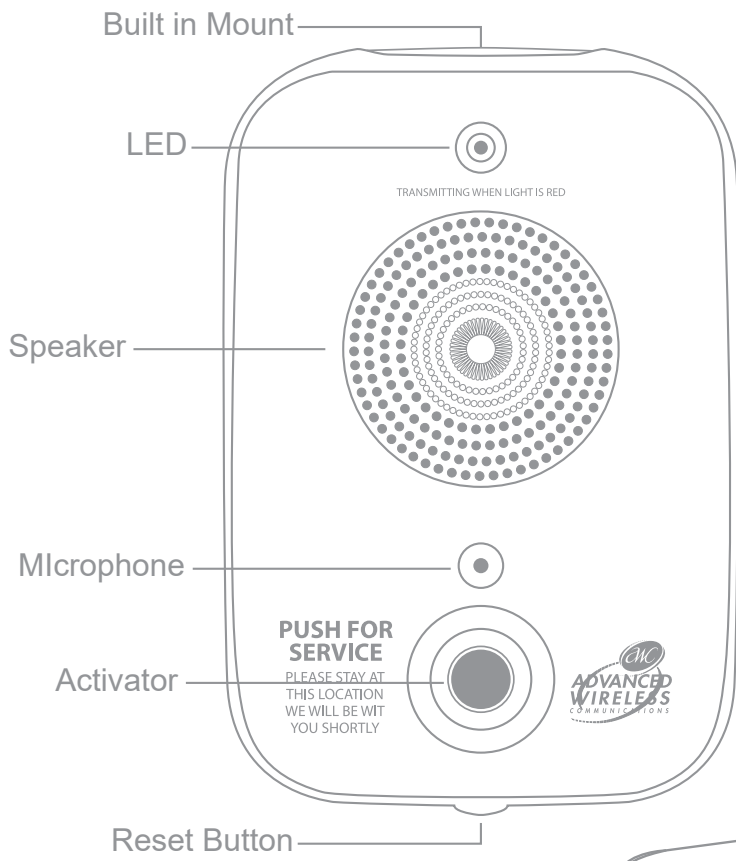
AWR-CB2100 UHF One-way Call box Features:

- 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 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
- Programmable 'alert message repeat' transmission time interval
- 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-CB2100 One-way Call box Operation:

The AWR-CB2100 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-CB2100 will operate in the following manner:

- The AWR-CB2100 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 it's 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. If the call box reset button is 'NOT' pressed, and if the call box is programmed for repeat messages at a designated time period, the call box will transmit its first repeat message to the associated two-way radios. This process will continue for the programmed message delay time period and the number of alert message repeats. If the call box is allowed to progress though all of the programmed repeats, without being reset, the call box will automatically time-out and re-enter Sleep Mode.
  6. If the Reset button is pressed, while the call box is active, the alert message process is terminated.
  7. The call box 'Speaker Message on Clear' (if programmed) will be played to the local speaker.
  8. The call box 'Message on Clear' (if programmed) will be transmitted to the associated two-way radios.
  9. When the call box 'Message on Clear' message transmission is complete, the AWR-CB2100 One-way call box will re-enter 'Sleep Mode".
- Low Battery alert
  Each time the AWR-CB2100 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 each radio alert transmission. The radio users will hear the low battery alert message. The call box local speaker will not hear the low battery alert message.
- Status LED
  1. Call box is active (awake)   LED is flashing 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 recording mode, press and hold the reset button until the status LED flashes red one time.
    10. 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 call box enters "Sleep Mode".

- **Test the One-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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