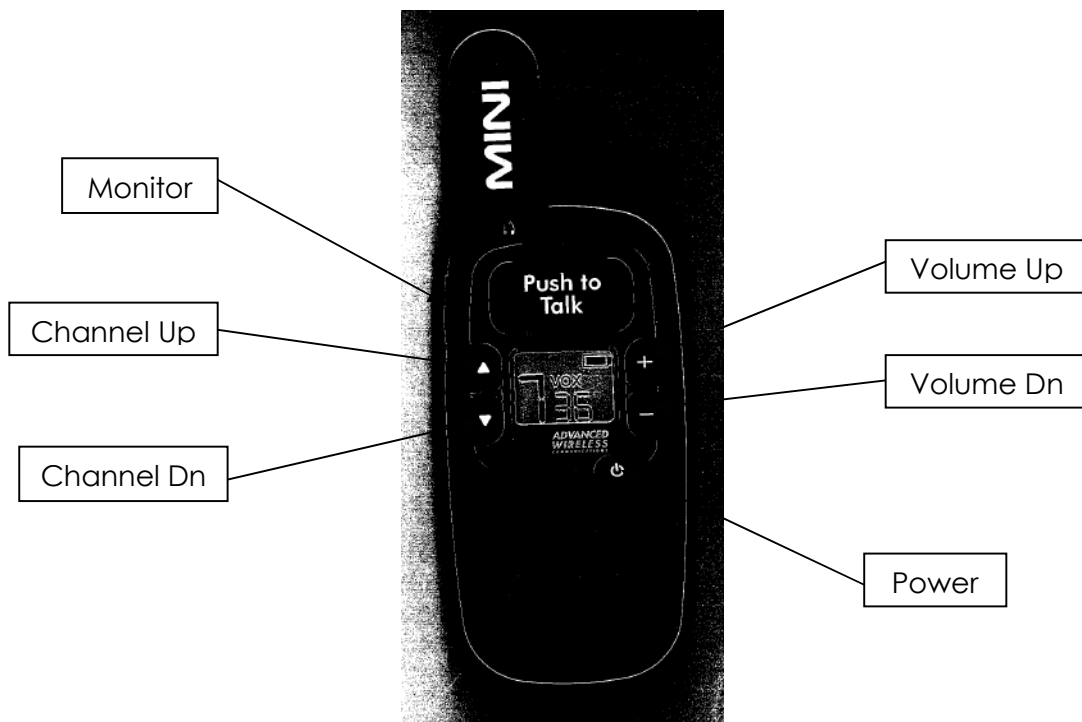


# AW391USL Owner's Manual

## Key Functions:

Key	Short Press < 1.5 secs	Long Press >1.5 secs
PTT	Push to talk	na
Monitor	Push to monitor	na
Power	na	Turn ON/OFF radio
Ch UP	one channel forward	Scan mode
Ch Dn	One channel backward	Key lock
Vol Up	Volume Up one step	Volume Up fast
Vol Dn	Volume Down one step	Volume Down fast

**Notes:** 'na' denotes no action.



**Direct Key Operation:**

1. **Power ON/OFF:** A long press will turn the radio ON or OFF.

The unit will power up in normal mode.



- Turn on the 500Hz for 100msecs.
- Turn on the display with full segments for 0.5 seconds.
- Turn on the back light for 5 seconds at maximum brightness.
- Recall the last channel and CTCSS/CDCSS code.
  - If no last channel information go to default channel.

2. **Volume Up/Down:** In the normal mode the '+', '-' buttons effect the volume in single steps. When pressed for a period greater than 1.5 seconds the volume will be affected in repeated steps in 125msec intervals.

There is no menu mode.

3. **Monitor:** In normal mode, when pressed and held the radio will enable the speaker on the currently selected channel regardless of the CTCSS/CDCSS status. Upon button release the radio will return to normal.

4. **Channel Up/Down**  

In the normal mode the   buttons change the channel selection in single steps.

There is no menu mode.

5. **All Scan/Dual Watch:** A long press of greater than 1.5 seconds of the Channel Up button will put the radio into the All Scan or Dual watch mode (PC program selectable).

All Scan:

This is the function to scan for broadcast channels. When an available active channel is detected the receiver will stop scanning at that channel. It will again continue to scan should the channel cease activity for more than 5 seconds.

If CTCSS/CDCSS is set, only the signal with matched CTCSS/CDCSS will be detected.

All Scan: CH1-CH2-CH3-.....CH8-CH1 etc.

Button functions during All Scan:

- Power button functions normally.
- The PTT when pressed will enter the Tx mode on the latest valid channel in memory and continue to scan after the button is released.
- A short press of the Channel Up button (All Scan) will terminate the All Scan mode. The radio will then return to the last valid channel.
- The Volume UP/Down is disabled during All Scan.

Dual Watch:

When enabled the current channel and the dual watch channel will be watched alternately. If either channel becomes active the watch cycling will stop and the receiver will be enabled. When this mode of operation is selected the 'DW' icon will be displayed.

- 6. Key Lock:** A long press for greater than 1.5 seconds of the Volume Down button will lock the keypad except for the PTT button, Power button and the backlight function. A Key Lock icon will be displayed. A long press for greater than 1.5 seconds of the Volume Down button will release the key lock.

**Parameters:**

Function	Power Up Defaults	Manual Power On	Range
Channel	1	No change	1 to 8
CTCSS channel	Null	No change	Null, 1 to 38
CDCSS channel	Null	No change	Null, 1 to 83
Vox sensitivity	Null	No change	Null, 1 to 3
Vox time	1	No change	1 to 5
Dual watch channel	Null	Null	Null, 1 to 8
Compander	OFF	No change	ON/OFF

**PC Programmable Features:**

1. Channel Frequencies:
2. RF Output power select 0.5/1 watt
3. CTCSS/CDCSS code selections:
4. VOX sensitivity.
5. VOX time.
6. VOX ON/OFF
7. Dual watch selection.
8. Dual watch/All Scan select.
9. Compander ON/OFF
10. Battery Save ON/OFF

**Special Function Operations:**

- **Power Save Mode:** Programmable ON/OFF from PC only.
- **Distinct Tones:** Distinct tones when each key is depressed. e.g. higher pitch tone for up key, lower pitch tones for down key.
- **Tx Indicator:** When the radio is transmitting the red LED will be illuminated.
- **Cloning:** Through ganged charger.

