

Owner's Manual

MINI **3**



UHF 450-470 MHz Two-Way Radio



20809 Kensington Blvd., Lakeville, MN 55044
1-800-475-5852 www.advancedwireless.com

THANK YOU!

Thank you for your purchase of Advanced Wireless Communications' MINI 3 two-way radio. This portable two-way radio is a business grade device. Treat it with care, and you will enjoy years of reliable operation.

MODEL(S) COVERED IN THIS MANUAL

MINI 3 Two-way Radio

Frequency:	UHF 450-470 MHz
Model:	AWR391V3
Part Number:	106038
	(radio & battery cover only)

MINI 3 Six-Unit Gang Charger

Model:	AWGC391
Part Number:	208640

Product Safety and RF Exposure for Portable Two-Way Radios Compliance with RF Energy Exposure Standards

NOTICE: This radio is intended for use in occupational/controlled applications where users have been made aware of the potential for exposure and can exercise control over their exposure. This radio device is NOT authorized for general population, consumer or similar use.

BEFORE USING THIS RADIO, READ THE TRAINING MATERIAL BELOW WHICH CONTAINS IMPORTANT OPERATING INSTRUCTIONS FOR SAFE USAGE AND RF ENERGY AWARENESS AND CONTROL INFORMATION FOR COMPLIANCE WITH RF ENERGY EXPOSURE LIMITS IN APPLICABLE NATIONAL AND INTERNATIONAL STANDARDS.

Federal Communication Commission (FCC) Regulations

The FCC has established limits for safe exposure to radio frequency (RF) emissions from portable two-way radios. The FCC requires manufacturers to demonstrate compliance with RF exposure limits before portable two-way radios can be marketed in the U.S. When two-way radios are approved for occupational/controlled environment exposure limits, the FCC requires users to be fully aware of, and exercise control over, their exposure. Awareness and control of RF exposure can be accomplished by the use of labels, or by education and training through appropriate means such as information and instructions in user manuals or safety booklets. Your Advanced Wireless Communications' two-way radio has an RF exposure information label in the battery compartment. The training material below includes useful information about RF exposure and helpful instructions on how to control your RF exposure. Your Advanced Wireless Communications two-way radio is designed and tested to comply with a number of national and international standards and guidelines (listed below) regarding human exposure to RF electromagnetic energy. In terms of measuring RF energy for compliance with FCC exposure guidelines, your radio radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

Compliance and Control Guidelines and Operating Instructions for Portable Two-Way Radios

To control your exposure and ensure compliance with the occupational/controlled environment exposure limits, always adhere to the following procedures:

* Transmit no more than 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Transmitting 50% of the time or less is important since the radio generates measurable RF energy exposure only when transmitting (in terms of measuring standards compliance).

* For body-worn operation, always place the radio in an AWC approved belt-clip or similar accessory that contains no metallic components and provides a minimum separation distance of 1.3 cm between the back of the radio and the user's body. AWC approved accessories, antennas, and device combinations comply with the occupational/controlled environment RF exposure limits. Using non-AWC approved accessories may result in exposure levels which exceed the FCC's occupational/controlled environment RF exposure

limits. AWC-approved accessories have been tested and comply with FCC RF exposure requirements.

* If you are not using a body-worn accessory and are not using the radio held in front of the face, ensure the radio is kept at a minimum of 1.3 cm from the body when transmitting. Keeping the radio at a proper distance is important since RF exposure decreases with increasing distance from the antenna.

* Use only FCC-approved, supplied or replacement headsets, batteries, and accessories intended for use with this radio. Use of non-FCC approved headsets, batteries and accessories may exceed FCC RF exposure guidelines.

FCC License Information

Your Advanced Wireless Communications radio operates on communications frequencies which are subject to FCC (Federal Communications Commission) Rules & Regulations. FCC Rules require that all operators using Private Land Mobile radio frequencies obtain a radio license before operating their equipment. Application for license must be made on FCC form 601, and schedules D, E, and G.

FAX: Forms can be obtained by fax from the FCC Fax-On-Demand system. Call 1-202-418-0177 from your fax machine and request document number 000600 for the form, schedules, and instructions.

MAIL: Forms can be ordered by telephone, and will be sent to you by first class mail. Call the FCC Forms Hotline at 1-800-418-FORM (1-800-418-3676).

INTERNET: Form 601 and instructions can be downloaded from the FCC Forms website at: <http://www.fcc.gov/Forms/Form601/601.html>

Before filling out your Form 601 application Technical Data section, you must decide which frequency (or frequencies) you will operate on.

Questions? Call the FCC for license application questions at 1-888-CALL-FCC (1-888-225-5322).

If you have any questions, call Advanced Wireless Communications at 1-800-475-5852

Notices to The User

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

One or more of the following statements may be applicable:

FCC WARNING

This equipment generates or uses radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

INFORMATION TO THE DIGITAL DEVICE USER REQUIRED BY THE FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses and can generate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult with the dealer for technical assistance.

SAFETY INFORMATION:

Your wireless portable two-way radio has been designed using a low power transmitter. When the PTT switch is pressed, the radio generates radio frequency (RF) electromagnetic energy (EME). This radio is designed to comply with the FCC Report and Order FCC 96-326 (August, 1996).

User Safety Information

PLEASE READ THIS IMPORTANT INFORMATION BEFORE USING YOUR ADVANCED WIRELESS COMMUNICATIONS PORTABLE TWO-WAY RADIO.

- ◇ Only qualified technicians are allowed to maintain this product.
- ◇ To avoid electromagnetic interference, turn off your radio in places where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy. When traveling on aircraft, turn off your radio when the airline crew instructs you to do so.
- ◇ When in vehicles equipped with an air bag, do not place a portable radio in the airbag deployment area.
- ◇ Turn off your radio prior to entering any area with a potentially explosive atmosphere. Do not remove, install, or charge batteries in such areas.
- ◇ To avoid possible interference with blasting operations, turn off your radio when you are near electrical blasting caps.
- ◇ Do not expose the radio to direct sunlight for long periods of time. Do not place the radio in direct contact with any heating source.

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GETTING ACQUAINTED

PRODUCT INSPECTION

Thank you for your purchase of Advanced Wireless Communications MINI 3 Portable Two-way Radio. Before use, please inspect the product as follows. First check the shipping carton for any signs of damage. If any damage has occurred, please contact your dealer or Advanced Wireless Communications immediately. Confirm the supplied product against the packing slip to assure accuracy.

PACKAGING CONTENTS:

	Part Number	Item	Quantity
1.	106038	MINI 3 Two-way Radio (Does not include battery.)	1 pc.
2.	209289	Li-ION Battery for MINI 3	1 pc.
3.	312705	Battery Cover (Door) for MINI 3	1 pc.

MINI 3 RADIO VIEW



approximate size

- 1. Antenna**
- 2. LED Indicator** - lights red when transmitting.
- 3. Monitor / Function Key** - press and hold to monitor channel. Press and release for programmed function (if enabled). Programmable functions include: volume down, or high/low power.
- 4. Channel Up** - Short presses to incrementally move up channels. Push and hold to turn scanning on (if enabled).

MINI 3 RADIO VIEW

5. Channel Down - short presses to incrementally move down channels. Push and hold to lock channel up/down and volume up/down, and side key (if enabled). Once keys are locked, push and hold again to unlock.

Note: by default key lock will be enabled for channel and volume keys. The Monitor/Function Key may also be programmed to lock.

6. Speaker

7. Connection Pins - allows radio to charge using a six-unit gang charger or desktop charger.

8. Headset / Charging Jack - plug headset or single unit charger in to this jack.

9. Microphone

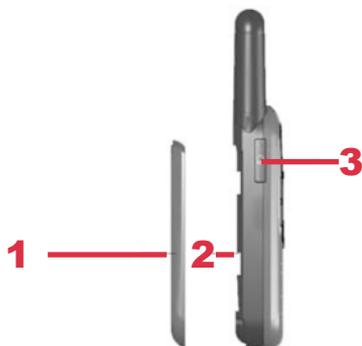
10. Push-To-Talk (PTT) Button - press and hold button while speaking. Release button to listen.

11. Volume Up - press button to incrementally increase volume. While in menus, press button to toggle menu status.

12. Volume Down - press button to incrementally decrease volume. While in menus, press button to toggle menu status.

13. Power - press and hold to power on/off. Quick press to enter menu mode and to scroll through menu options.

MINI 3 RADIO VIEW



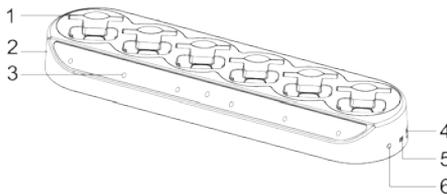
- 1. Battery Door/Cover**
 - Remove to access battery compartment.
- 2. Battery Compartment**
 - Uses Lithium 3.7 V - 830 mAh rechargeable battery.
- 3. MON Button**
 - Press and hold to monitor channel. Press and release for programmed function (if enabled). Programmable functions include: volume down, or high/low power.

MINI 3 LCD DISPLAY SYMBOLS



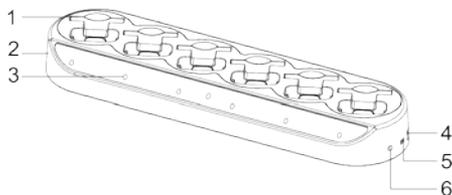
SYMBOL	FUNCTION
28 (big)	Channel number: Select between 16 channels
	Battery indicator: Provides battery status during operation
DW	Dual Watch: Scan 2 channels
H	High Power: the current channel is high power
	Keypad lock: Locks keypad to prevent accidental button activation
	Indicates Channel Scan Status
	Push-to-Talk (PTT) Tone: the proceed to talk tone is activated
	VOX: Voice activation system
28 (small)	Auxiliary function

SIX-UNIT GANG CHARGER VIEW



- 1. Docking Cradle**
- 2. DC Adaptor Socket.**
- 3. LED Status Indicator for Extra Batteries**

SIX-UNIT GANG CHARGER VIEW



- CONTINUED -

4. **USB Socket** - Download settings from PC to radio units (Not used for MINI 3).
5. **CHG-CLON Switch** - Charge radio units; clone radio unit settings (Not used for MINI 3).
6. **PROG** - Clone radio unit settings from source radio to other radio units (Not used for MINI 3).

MINI 3 OUT OF BOX PROGRAMMING

Channel	Freq. Tx & Rx	CTCSS Code	
1	464.55000	67.0	
2	467.92500	67.0	
3	461.03750	67.0	
4	461.06250	67.0	
5	461.08750	67.0	
6	461.11250	67.0	

To change the programming set up, programming software & cable are required. Please contact Advanced Wireless Communication for details or visit our website at www.AdvancedWireless.com

SAFETY AND CARE INSTRUCTIONS

SAFETY PRECAUTIONS

Please observe the following safety precautions when setting up and using this product.

- LCD panel - The LCD panel is made of glass, and may break if the unit is dropped or impacted.
- Heat sources - Keep the product away from heat sources such as radiators, stoves, heaters, and other heat-generating products.
- Water and moisture - Do not use the product in or near water or in high moisture areas such as a bathroom. Indoor use only.

CARING FOR THIS PRODUCT

To ensure you receive the maximum benefit from using this product, please observe the following guidelines.

- Cleaning - Use a damp cloth. Do not use liquid cleaning agents, benzene, thinner, or aerosols.
- Repair - Do not attempt to repair the product or modify the circuitry by yourself. Only replacement parts that are recommended by Advanced Wireless Communications (AWC) should be used. You can contact AWC at 1-800-475-5852.
- Do not scratch hard objects against the LCD display as this may cause damage.

CAUTION

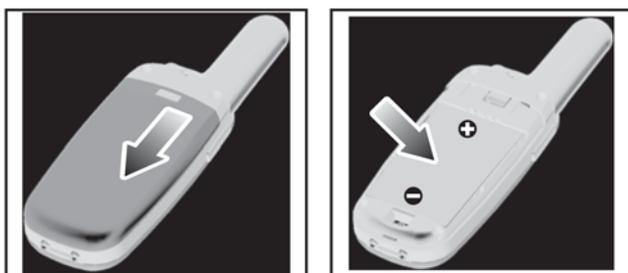
- To avoid risk of fire or injury, do not attempt to charge non-rechargeable batteries. Please turn off the unit while charging.
- Replace only batteries with the same or equivalent type recommended by the manufacturer.
- Please dispose of old, defective batteries in an environmentally friendly manner in accordance with the relevant laws and regulations.
- Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
- Do not expose equipment and accessories to open flames, such as lighted candles, etc.
- To reduce the risk of electric shock, do not expose equipment to rain or moisture.

GETTING STARTED

INSTALLING / REMOVING CHARGING THE BATTERY

To insert the battery:

1. Slide the battery door open.
2. Insert the Lithium battery into the battery compartment, making sure the polarities (+ and -) match.
3. Slide the back cover and clip into place.



WARNING: There is a danger in which incorrectly placing the battery can cause an explosion. Always make sure the radio is switched off before installing or changing the battery. Replace only with the same or equivalent type. Use ONLY with Lithium 3.7V 830 mAH rechargeable batteries. **Contact Advanced Wireless Communications at 1-800-475-5852 or www.advanced-wireless.com for more information.**

To charge the battery using a 6 unit gang charger:

IMPORTANT: Charge the battery for 12 hours on the first charge. After that, it should take 4 or less hours to charge.

Make sure the adapter is not obstructed and is easily accessible to the unit.

1. Connect the 6 unit gang charger to AC power using the DC adapter provided.
2. Slide CHG-CLON switch to select CHG.
3. Insert radio unit into 1st docking cradle (insert additional radio units into docking cradles, 2 through 6). Please ensure radio screen faces forward (same direction as LED lights on gang charger).

Battery Status	Extra Batteries LED	Radio Screen
Battery Charging	Red	LCD Backlight On
Battery Charging	Green	LCD Backlight Off

GETTING STARTED

NOTE:

- To completely disconnect from power, the adapter should be disconnected from the 6 Unit Gang Charger.
- Batteries should not be exposed to excessive heat such as direct sunlight or fire.
- The 6 Unit Gang Charger and adapter should not be exposed to wet conditions. No objects filled with liquid, such as vases, should be placed on the main unit and adapter.
- To maintain the battery life of your two-way transceiver it is recommended that you only charge the battery when needed. Overcharging the battery will reduce performance.
- For best results ensure that the unit is turned off before charging.
- Remove batteries before storing your radio for extended periods. Batteries corrode over time and may cause permanent damage to your radio.

TURN THE UNIT ON / OFF

To turn the MINI 3 Two-way Radio ON or OFF:

Press and hold  until you hear a beep and the LCD display appears or disappears.

VOLUME

To change the volume level:

Use  or  to increase or decrease the volume.

TALK TO ANOTHER RADIO

For best transmission speak about 2" away from the radio and leave a short pause before speaking once you have pressed the .

To talk to another radio (transceiver):

1. Press and hold "Mon" to check if the channel is free.
2. Press and hold  and speak into the microphone to transmit.
3. Release  once you have finished speaking to allow other radios to respond. The radio transceiver will automatically hear received transmissions.

GETTING STARTED

TALK TO ANOTHER RADIO

NOTE: You can only communicate with another radio (transceiver) that is on the same channel and using the same CTCSS/DCS code as your radio (transceiver).

KEYPAD LOCK

To avoid accidentally changing the channel and the unit's preferred settings, you can lock the keypad.

To lock or unlock the keypad:

Press and hold  for 2.0 seconds.  appears when the keypad is locked.

NOTE: While key lock is "on" you can still use the  and .

SELECT A CHANNEL

The transmitter and receiver must be on the same channel using the same CTCSS code or DCS code in order for you to communicate with another party.

To select between maximum 16 channels (the CTCSS code or DCS code is set by PC program):

1. Press  to increase channel number. To activate auto scan for available channels, press and hold  for more than 2.0 seconds.
2. Press  to decrease channel number.

VOX LEVEL / VOICE DELAY TIME

The Voice Activated Transmission (VOX) function allows your voice to activate transmission automatically when the transceiver is used with an optional hands-free microphone / headset. If the unit is set to VOX level 1, 2,9, it will automatically detect and transmit your voice through to the selected channel. The VOX level and transmission delay time should be adjusted according to your voice loudness and personal preference.

GETTING STARTED

VOX LEVEL / VOICE DELAY TIME

To set up a headset:

1. Press and hold  to switch the radio off.
2. Plug in the headset.
3. Press and hold  to switch the radio back on again.

NOTE: This product is only compatible with AWC headsets, please ask your local Account Manager for further information. Pressing the PTT button disables VOX.

SCAN / DW FOR A CHANNEL / CTCSS / DCS

NOTE:  or  will be disabled when Scan function is activated.

To auto-scan / DW for a channel / CTCSS / DCS:

1. DW or Scan function is selected by PC program.
2. Channel for DW is chosen by PC program.
3. Long press  to enter scan mode.
4. Press  to enter the Tx mode on the last valid channel in memory and continue to scan after the button is released.
5. Long press  to terminate the All Scan mode. The radio will then return to the last valid channel.

BATTERY SAVER / TX POWER / PTT TONE SETTING / SCAN ADD-DELETE

1. Short press , the LCD will display “S” and flashing “y” or “n”, then press  or  to enable or disable the Battery Saver mode, when the Battery saver is active, the S will be displayed on the LCD screen. This is a Global setting.
2. Short press  again, the LCD will display “P” and flashing “H” or “L”, Then press  or  to toggle the current channel TX power. When the Channel is High power, the H will be displayed on the LCD screen. This setting is per channel.

GETTING STARTED

BATTERY SAVER / TX POWER / PTT TONE SETTING / SCAN ADD-DELETE

3. Short press  again, the LCD will display “t” and flashing “y” or “n”, then press  or  to enable or disable the PTT tone. When the PTT tone is active, the  will be displayed on the LCD screen. This is a Global setting.
4. Short press  again, the LCD will display “L” and flashing “y” or “n”, then press  or  to add (y) or delete (n) the specific channel from the Scan List.  will be displayed on the LCD screen if the channel is added to the Scan List. This setting is per channel.

WIRELESS CLONING

The MINI 3 is capable of Wireless Cloning. For details on this function, contact Advanced Wireless Communications at 800-475-5852

TROUBLESHOOTING

See below for some common problems and their remedies. DO NOT attempt any repairs yourself. This will invalidate your warranty.

PROBLEM	POSSIBLE CAUSES / REMEDIES
Can't turn the radio on	<ul style="list-style-type: none">• Check that the battery is correctly installed and has been fully charged.
Can't communicate with other radios	<ul style="list-style-type: none">• For this and all other issues contact Advanced Wireless Communications at 1-800-475-5852 or visit www.advancedwireless.com for more information.
VOX function is not working	<ul style="list-style-type: none">• Check the headset is correctly plugged in and is compatible with the MINI 3 radio.

OPTIONAL ACCESSORIES

Picture	Part Number	Model Number	Item
	106043		MINI 3 Two-way Radio with Battery and Battery Cover.
	106044		MINI 3 Two-way Radio with Battery, Battery Cover, Single-Unit Charger, and Holster.
	208640	AWGC-391	Six-Unit Gang Charger for MINI 3
	209265	AWC-391	Single-Unit Charger for MINI 3
	209586	AWAB-391	Armband for MINI 3 (radio not included)
	209906	AWLBA-391	Break-A-Way Lanyard (radio not included)

OPTIONAL ACCESSORIES

Picture	Part Number	Model Number	Item
	209241	AWSH-391	MINI 3 Holster with Belt Clip
	312705	AWCBDC-391	Battery Cover for MINI 3
	209289	AWB-391	Battery for MINI 3
	209715	AWEB-391-A1	Ear Bud Headset
	211237	AWEH-391-A1	Ear Hook Headset
	210872	AWEH-S-391-A1	Ear Hook - Short Cord Headset (Audio Only - No PTT Button)

OPTIONAL ACCESSORIES

Picture	Part Number	Model Number	Item
	209883	AWEL-391-A1	Ear Loop Headset
	207698	AWFEL-391-A1	Flexible Ear Loop Headset
	210889	AWFEL-S-391-A1	Flexible Ear Loop - Short Cord Headset (Audio Only - No PTT Button)
	210230	AWHBN-391-A1	Behind The Neck Headset With Boom Microphone
	207681	AWMSM2-391-A1	Speaker Microphone
	209593	AWMPA-391-A1	Modular Push-To-Talk Headset Cord (Main Piece - Allows User to Plug Different Headset Ends In)

OPTIONAL ACCESSORIES

Picture	Part Number	Model Number	Item
	208954	AWMSM-J6	Modular Mini Speaker Microphone
	204857	AWEB-M-J6	Modular Ear Bud Headset
	205120	AWFEL-M-J6	Modular Flexible Ear Loop Headset
	204871	AWSV-M-J6	Modular Surveillance Headset
	211374	AWEH-M-J6	Modular Ear Hook Headset

NOTES

