

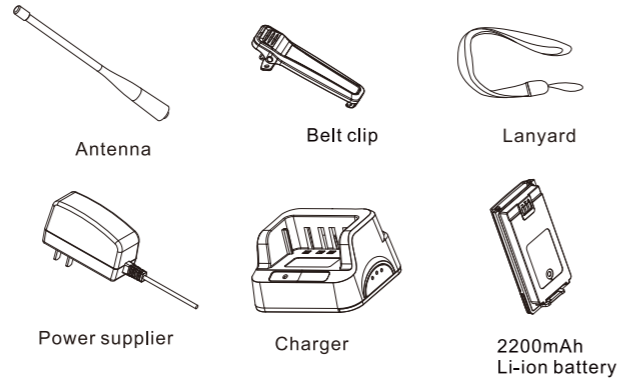
## AWR-D5000 Radio User Manual

### Dear users

Thank you for choosing Advanced Wireless Communications(AWC) DMR Digital Radio, we believe it is a wise choice to choose us because we have the latest technology, the most stable components, the most advanced production technology. AWC radio will provide you with the reliable performance and high quality you demand.

**This user manual apply to: AWR-D5000**

### Accessories



### Radio Usage

#### Charging

To avoid any damages on the charger meanwhile following the guarantee articles, it must use the attached charger to charge the battery. Please put the battery solo or the battery with radio in the charger base to charge.

#### Charger Indicator state

Indicator	Charging state
Flash Red	Waiting to charge
Steady Red	Charging
Steady Green	Fully charged

#### Battery Installation and Remove

Align the battery with the aluminum housing and press down on the battery; Please turn off the radio before removing the battery, then press the battery lock-latch to remove the battery.

#### Antenna Installation

Clockwise rotate the antenna into the connector on the top of the radio until it is tight.

#### Belt Clip Installation and Remove

Using 2 screws to lock the belt clip on the back of the radio until it is tight; unscrew it If need to remove the belt clip.

#### External Speaker /Microphone Installation

Connect the speaker /microphone to the SP/MIC hole.

#### Product Operation

##### User model

##### Power on/off

Turn the Volume / Power knob clockwise to turn the radio on. Some radio is programmed to have a prompt tone when is turned on. After power on, the radio will stay on the receiving state.

Turn the Volume / Power knob counter clockwise to turn the radio off, a tone will be heard when the radio is turning off.

##### Switching Channels

Rotate [Channel knob] to switch channel. If programmed the "Channel Announcement", the channel number will be heard, if the noisy is heard after switching the channel, means the current channel is not programmed, cannot be used.

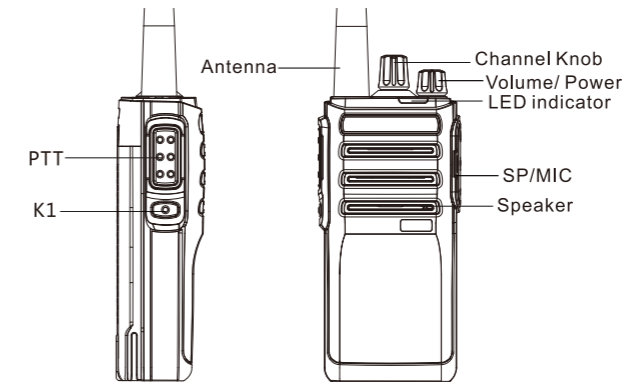
##### Communication

Switch the channel to the required channel.

Transmitting: Press and hole the PTT key and talk, release the PTT when finish talking.

Receiving: When the signal comes in, the LED indicator will be green, audio comes out from the radio Mic. Switch the volume know to adjust the volume.

### Key Operations



Keys	Function
Power/ volume knob	Power on/ off the radio, switching the volume
Channel knob	Switching for channel 1-16
PTT	Press PTT to transmit
LED indicator	TX: red RX: green Red: flash when TX and the battery is low
K1	Programmable key
SP-/MIC	Connect the Speaker microphone

### Advanced Wireless Communications(AWC) Product Quality warranty and Liability

The warranty period of this product starts from the day when the customer receive the product.

- 12-month warranty on the radio solo , 6-month warranty on the accessories.
- In the warranty period, the related labels cannot be teared up.

The warranty policy does not include the following conditions:

- Defects or damages caused by working in abnormal or unusual situations.
- Defects or damages caused by misuse, accident or water submersion.
- Defects or damages caused by unauthorized repair or adjustment.
- Warranty does not extend to cosmetic scratches or damages as a result of normal use or misuse.
- Defects or damages caused by force majeure.
- This warranty is void if :

The product information label on the back case is removed or if the serial number is tampered with, changed or cannot identified.

## Functions

This radio has the following functions available. Please refer to the "Call" for the private call, group call and analog call operation. Other functions need to be programmed by the dealer. [SK] is short-cut key, contact to your dealer for more details.

Type	Name	Description
Common function	Zone	A zone is a grouping of channels, the radio is up to 3 zones, 48 channels.
	Power level	The output power of the current channel, can be configured to high or low level.
	Scan	Scan to scan list, Analog and Digital can be scan at the same time.
	Emergency alarm	When there is a emergency situation ,user can ask help by using it, emergency alarm has priority.
	Vox	When the microphone detects that the voice meets the terminal transmission conditions, the terminal will automatically transmit. This function needs to be used in conjunction with a headset with voice control function.
	Busy channel lock	Busy channel lock is to lock the channel which is transmitting to prevent interference from other users
	TX time-out	The timeout prohibition is when the transmission time is exceeded (default 60s), the terminal will automatically terminate the transmission and send a warning tone. If need to talk again, please transmit after the preset time.
Digital function	Battery save	When the terminal standby reaches the power saving time, it will automatically enter the power saving mode.
	Individual call	A single call made by one user to another
	Group call	Allows a user to call multiple units that are on the same talk group.
	All call	Allows a user to call all users.
Analog function	One touch access call	Allows to make a private call or call multiple units by a short-cut key.
	TDMA direct mode	Allows to divide the digital channel into two alternating time slots.
	Analog channel call	Is one-to-many call on the current analog channel
	Squelch on	Means the speaker is always on with or without carrier
	Squelch level	Adjust the signal intensity required to receive the signal. The squelch level are: low, normal, high. If set to low the noise is light, if high, the noise is deep.
Monitor	Monitoring is not distinguish signaling, Voice is received as long as the carrier matches.	
CTCSS/CDCSS	You can receive the voice through the loudspeaker only when the received sub-tone matches the transmitted sub-tone.	

## LED Indicator

Indicator status	Radio Status
Green LED flashes	Powering on
Green LED glows	Receiving signal
Red LED flashes	Transmitting
Green LED flashes	Scanning
Orange LED glows	Start monitoring

## Troubleshooting

Issue description	Possible reason	Solution
Cannot power on	The battery may not be installed correctly	Remove the battery and reinstall it
	Ran out of battery	Charge or change battery
	Poor contact caused by dirty or damaged battery contacts	Clean the battery contacts
When receiving the signal, the audio voice is low , intermittent or silent	Battery voltage is too low	Charge or change battery
	low volume	Turn up the volume
	The antenna is loose or improperly installed	Reinstall the antenna after power off
Cannot talk to other users of the group	Speakers are blocked or damaged	Softly clean the external part
	The frequency or signaling programmed is different from other users in the group	Program the same frequency or signaling with other users in the group
	Improper setting of digital and analog channels	Program a same digital or analog channel
	Too far away from other users of the group	Try to get close to other members and make sure they are within effective communication range
There are other communications or noises heard in the channel	Co-Channel interference	Change to a new frequency point, or adjust the squelch level
	Signaling is not configured	Signaling settings for all terminals in the group
Noisy	Long-distance communications with other users	Get close to other users
	Bad location, affected by tall buildings or in the basement	Retry after moving to an open and flat ground
	External environment or electromagnetic interference	Avoid possible interference devices
Keep transmitting	VOX is enabled, Set the headset PTT/VOX switch from PTT to VOX	Re-plug the headset

## Safety information

This manual provide you with safe and ease instruction for our Advanced Wireless Communications(AWC) portable two-way radio.



**WARNING**

### Operation and Electromagnetic Exposure

Press PTT, hold the radio in a vertical position from 2.5 to 5.0 cm (1 to 2 inches) away from lips. Insure that the antenna is at least 2.5 cm away from your head and body when transmitting.

### Electromagnetic Interference (EMI) / Electromagnetic Compatibly (EMC)

All electronic devices are subject to and may be affected by EMI unless proper compatibility design and testing have been accomplished. Radios should be powered off if unsure of EMI / EMC effects. Radios should be powered off aboard aircraft and the user shall adhere to the any and all airline requirements for RF emitters.

### Operation warning

Radios including mobiles and portables shall not be mounted permanently or temporarily in areas of vehicles that use air bag safety restraint systems. Placing devices on or near air bags during deployment pose a safety hazard to the occupants of the vehicle.

### Environment with explosion risk

Radios shall be powered off when in environments that pose an explosion risk unless the radio has received FM or Cenelec approval with certificate. In such environments, a small spark may lead to an explosion, fire, damage and death.

### In the blast area or area with detonator

Radios shall be powered off near to and within an blasting area where detonators or other explosive materials are in use or stored.

### Operation instruction

#### Damaged antenna

Damaged antennas shall be replaced. Exposure to the metallic portions of a damaged antenna can lead to burns.

### Battery

Batteries shall not be changed or charged in explosive risk environments. Minor flames and / or sparks can lead to a explosion. Any metal conductor, such as jewelry or keys, touching the battery contacts may lead to a short circuit condition that may result in a fire or burn. Care should be exercised to insure that the battery contacts are not allowed to touch other objects.

## Radio's maintainance

- Chemicals such as alcohol, cleaning fluids, and petroleum based products will damage the radio surfaces.
- Do not pick up the radio using the antenna or purposely stress the housing and belt clip.
- Please close the dust proof cover to protect the Microphone/speaker jack while not using accessory.
- Clean the surface of the radio with only a damp cloth using water. Insure that none of the water enters the radio case.
- Unrecognized accessories may damage the radio and in this case our warranty will be unavailable.

## FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

Note: 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 a residential installation.

This equipment generates, uses and can radiate 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 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This radio is designed for and classified as "Occupational/Controlled Use Only", meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards; NOT intended for use in an General population/uncontrolled environment DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio.

DO NOT transmit for more than 50% of total radio use time, more than 50% of the time can cause RF exposure compliance requirements to be exceeded. This transmitter may operate with the antenna(s) documented in this filing in Push-to-Talk and body-worn configurations. RF exposure compliance is limited to the specific belt-clip and accessory configurations as documented in this filing and the separation distance between user and the device or its antenna shall be at least 2.5 cm.

## IC Caution:

User manuals for licence-exempt radio apparatus shall contain the following or equivalent notice in a conspicuous location in the user manual or alternatively on the device or both. This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil n' doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radio apparatus containing digital circuitry which can function separately from the operation of a transmitter or an associated transmitter, shall comply with ICES-003.

In such cases, the labelling requirements of the applicable RSS apply, ather than the labelling requirements in ICES-003. This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This radio is designed for and classified as "Occupational/Controlled Use Only", meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards; NOT intended for use in an General population/uncontrolled environment

DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio.

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