Airiton AI-31D

Airiton AI-31D UHF Two-Way Radio Instruction Manual

Model: AI-31D

Introduction

Thank you for choosing the Airiton AI-31D UHF Two-Way Radios. This manual provides essential information for the safe and efficient operation of your new communication devices. Please read this manual thoroughly before use and retain it for future reference.



Image: A complete set of Airiton AI-31D walkie talkies, including the radio unit, earpiece, and multi-unit charger.

1. Setup and Initial Use

1.1 Package Contents

Before proceeding, verify that all items are present in your package:

- Airiton AI-31D Walkie Talkie (x6)
- Rechargeable Battery (x6)
- 6-Way Multi-Unit Charger (x1)
- USB-C Cable (x6)
- Belt Clip (x6)
- Earpiece (x6)
- User Manual (x1)

1.2 Battery Installation

1. Ensure the walkie talkie is powered off.
2. Align the battery pack with the battery compartment on the back of the radio.
3. Slide the battery into place until it clicks securely.
4. To remove, press the release latch (if present) and slide the battery out.

1.3 Charging the Batteries

The Airiton AI-31D walkie talkies can be charged using the included 6-way multi-unit charger or individual USB-C cables.



Image: The 6-way multi-unit charger, highlighting its overcharge, overheating, and high voltage protection features. Dimensions are also shown: 9 inches length, 5.1 inches width, 1.7 inches height.

Using the 6-Way Multi-Unit Charger:

1. Connect the power adapter to the 6-way multi-unit charger and plug it into a power outlet.
2. Place the walkie talkies (with batteries installed) or individual batteries into the charging slots.
3. The indicator light for each slot will show the charging status (e.g., red for charging, green for fully charged).
4. The charger features overcharge, overvoltage, and short circuit protections.



Image: Multiple Airiton walkie talkies and their batteries being charged simultaneously in the 6-way multi-unit charger, demonstrating efficient space-saving charging.

Using USB-C Charging:

1. Connect a USB-C cable to the charging port on the side of the walkie talkie.
2. Plug the other end of the USB-C cable into a compatible USB power source (e.g., wall adapter, power bank, computer, vehicle USB port).
3. A full charge typically takes approximately 3 hours.



Image: The Airiton walkie talkie demonstrating its versatile USB-C charging capabilities, including charging from a wall adapter,

power bank, and car charger.

1.4 Attaching Accessories

- **Belt Clip:** Secure the belt clip to the back of the radio for convenient carrying.
- **Earpiece:** Plug the earpiece into the speaker/mic jack on the side of the radio for private listening and hands-free communication.

2. Operating Instructions



Image: A detailed diagram illustrating the components of the Airiton AI-31D walkie talkie, including the antenna, power/volume knob, LED indicator, PTT key, SK1/SK2 keys, speaker, and mic jack. Key dimensions are also shown.

2.1 Power On/Off and Volume Adjustment

- **Power On:** Rotate the Power/Volume knob clockwise until you hear a click. The radio will power on.
- **Power Off:** Rotate the Power/Volume knob counter-clockwise until you hear a click. The radio will power off.
- **Volume Adjustment:** Continue rotating the Power/Volume knob clockwise to increase volume, and counter-clockwise to decrease volume.

2.2 Channel Selection

The AI-31D supports 30 channels. Use the designated channel selector knob (if present, or SK1/SK2 buttons depending on configuration) to select your desired channel. Ensure all radios in your group are on the same channel for communication.

2.3 Transmitting and Receiving

- **To Transmit:** Press and hold the Push-To-Talk (PTT) key on the side of the radio. Speak clearly into the microphone. Release the PTT key to stop transmitting and listen for a response.
- **To Receive:** Ensure the PTT key is not pressed. The radio will automatically receive transmissions on the selected channel.

2.4 CTCSS/DCS Codes

The radio supports 50 CTCSS (Continuous Tone-Coded Squelch System) and 210 DCS (Digitally Coded Squelch) codes. These codes help filter out unwanted conversations on the same channel. To communicate, all radios in your group must be set to the same channel and the same CTCSS/DCS code.
Refer to the full user manual for detailed instructions on setting CTCSS/DCS codes, typically done via programming software or specific key combinations.

2.5 VOX Function (Hands-Free Communication)

The Voice Operated Exchange (VOX) function allows you to transmit without pressing the PTT key. When VOX is enabled, the radio will automatically transmit when it detects your voice.

- **Activating VOX:** Consult the full user manual for specific key presses or menu options to enable/disable VOX and adjust its sensitivity.
- **Usage:** Ideal for situations where your hands are occupied, such as hiking, cycling, or working.

2.6 Scanning Function

The scanning function allows the radio to automatically scan through active channels to find ongoing conversations. This is useful for monitoring multiple channels.

- **Activating Scan:** Refer to the full user manual for instructions on how to activate and deactivate the scanning feature.

3. Maintenance

3.1 Battery Care

- Fully charge new batteries before first use.
- Avoid overcharging or completely draining the battery to prolong its lifespan.
- The 1500mAh battery provides approximately 8-12 hours of continuous use and up to 52 hours of standby time.
- The radio features a Battery Low Alert and Battery Save function to optimize power usage.

3.2 Cleaning

- Wipe the radio's surface with a soft, damp cloth.
- Do not use harsh chemicals, solvents, or abrasive cleaners.
- Ensure the charging ports and jacks are free from dust and debris.

3.3 Storage

- Store the walkie talkies in a cool, dry place when not in use.

- For long-term storage, remove the batteries and store them separately.
- Avoid exposing the radios to extreme temperatures or direct sunlight.



Image: Two Airiton walkie talkies positioned on a textured, rugged surface, emphasizing their durable and impact-resistant design suitable for various environments.

4. Troubleshooting

If you encounter issues with your Airiton AI-31D walkie talkie, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on.	Battery is not installed correctly or is depleted.	Ensure battery is securely installed. Charge the battery fully.
Cannot transmit or receive.	Incorrect channel or CTCSS/DCS code. Out of range. Low battery.	Verify all radios are on the same channel and code. Move closer to other radios. Charge battery.

Problem	Possible Cause	Solution
Poor audio quality or static.	Weak signal. Interference. Volume too low.	Move to an open area. Adjust volume. Check for obstructions.
VOX function not working.	VOX sensitivity too low or function disabled.	Check VOX settings in the user manual and adjust sensitivity.

If the problem persists, please contact customer support.

5. Specifications

Feature	Detail
Brand	Airiton
Model Number	AI-31D
Frequency Range	400-470 MHz
Number of Channels	30
CTCSS Codes	50
DCS Codes	210
Battery Type	1500mAh Rechargeable Li-ion (included)
Battery Life (Continuous Use)	8-12 hours
Battery Life (Standby)	Up to 52 hours
Charging Methods	6-Way Multi-Unit Charger, USB-C
FCC ID	2AJGM-W31D
Compatible Devices	Airiton walkie talkies, Airiton headsets, Airiton earpieces



Image: An overview of the Airiton AI-31D walkie talkie's key features, including its frequency range (400-470 MHz), 30 channels, USB-C charging, VOX hands-free function, 260 sub-codes, and battery save mode.

6. Warranty Information

Airiton provides lifelong customer service support for all its products. This commitment ensures that you receive assistance for any issues encountered during the product's lifespan.

7. Customer Support

Should you have any questions, require technical assistance, or encounter problems with your Airiton AI-31D walkie talkies, please do not hesitate to contact our after-sales team.
You can reach us through the Amazon platform. Our team is dedicated to providing professional and efficient solutions.

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