Airiton UV-S9 Plus

Airiton UV-S9 Plus 8W Dual Band Ham Radio Instruction Manual

1. Introduction

This manual provides detailed instructions for the safe and efficient operation of your Airiton UV-S9 Plus 8W Dual Band Ham Radio. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

2. Product Overview and Components

The Airiton UV-S9 Plus is a high-power, dual-band handheld two-way radio designed for reliable communication. Familiarize yourself with the radio's components and included accessories.

Figure 2.1: Airiton UV-S9 Plus radio, antenna, battery, belt clip, charging adapter, USB charging cable, user manual, and earpiece.

Figure 2.2: Key features of the Airiton UV-S9 Plus, including the USB Charge Port, Call Key, Accessory Jack, and MONI Key.

Figure 2.3: Detailed views highlighting the radio's top controls (volume/power knob, flashlight), side buttons (PTT, Call, MONI), and accessory ports.

3. Setup

3.1 Battery Installation

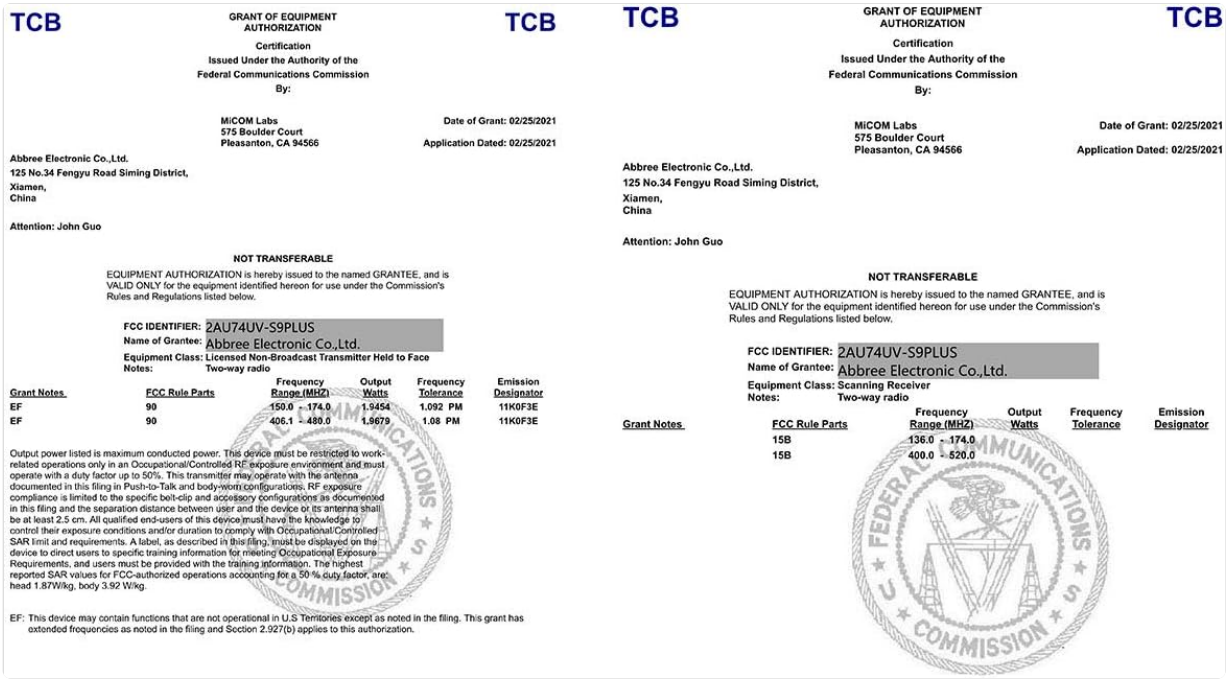
1. Ensure the radio is powered off.
2. Align the battery pack with the grooves on the back of the radio.
3. Slide the battery pack upwards until it clicks into place.
4. To remove, press the release latch (if present) and slide the battery downwards.

3.2 Antenna Attachment

1. Screw the antenna clockwise into the connector on the top of the radio until it is finger-tight. Do not overtighten.

3.3 Charging the Battery

The UV-S9 Plus supports both cradle charging and direct USB charging.



TCB

GRANT OF EQUIPMENT AUTHORIZATION

Certification

Issued Under the Authority of the Federal Communications Commission By:

MiCOM Labs
575 Boulder Court
Pleasanton, CA 94566

Date of Grant: 02/25/2021

Application Dated: 02/25/2021

Abbree Electronic Co.,Ltd.
125 No.34 Fengyu Road Siming District,
Xiamen,
China

Attention: John Guo

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: 2AU74UV-S9PLUS
Name of Grantee: Abbree Electronic Co.,Ltd.
Equipment Class: Licensed Non-Broadcast Transmitter Held to Face
Notes: Two-way radio

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
EF	90	150.0 - 174.0	1.9454	1.092 PM	11K0F3E
EF	90	406.1 - 480.0	1.9679	1.08 PM	11K0F3E

Output power listed is maximum conducted power. This device must be restricted to work-related operations only in an Occupational/Controlled RF exposure environment and must operate with a duty factor up to 50%. This transmitter may operate with the antenna 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. All qualified end-users of this device must have the knowledge to control their exposure conditions and/or duration to comply with Occupational/Controlled SAR limit and requirements. A label, as described in this filing, must be displayed on the device to direct users to specific training information for meeting Occupational Exposure Requirements, and users must be provided with the training information. The highest reported SAR values for FCC-authorized operations accounting for a 50 % duty factor, are: head 1.87W/kg, body 3.92 W/kg.

EF: This device may contain functions that are not operational in U.S Territories except as noted in the filing. This grant has extended frequencies as noted in the filing and Section 2.927(b) applies to this authorization.

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FCC IDENTIFIER: 2AU74UV-S9PLUS
Name of Grantee: Abbree Electronic Co.,Ltd.
Equipment Class: Scanning Receiver
Notes: Two-way radio

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
	15B	136.0 - 174.0			
	15B	400.0 - 520.0			

Figure 3.1: The radio connected to the USB charging cable for convenient power replenishment.

1. **Using the Charging Cradle:** Place the radio with the battery installed into the charging cradle. Ensure the charging contacts align. The indicator light on the cradle will show charging status.
2. **Using the USB Charging Cable:** Connect the USB charging cable to the radio's USB charge port and to a compatible USB power source (e.g., computer, USB wall adapter). The radio's display or an indicator light will show charging status.

A full charge typically takes several hours. Do not overcharge the battery.

4. Operating Instructions

4.1 Powering On/Off and Volume Control

1. **Power On:** Rotate the volume/power knob (top of the radio) clockwise until you hear a click and the display illuminates.
2. **Power Off:** Rotate the volume/power knob counter-clockwise until you hear a click and the display turns off.
3. **Volume Adjustment:** Rotate the volume/power knob to adjust the audio output level.

4.2 Channel Selection (VFO/MR Mode)

The radio operates in two main modes: VFO (Variable Frequency Oscillator) for direct frequency input and MR (Memory Recall) for stored channels.

1. Press the **VFO/MR** button to switch between VFO and MR modes.
2. In VFO mode, use the keypad to enter frequencies directly or the UP/DOWN arrow keys to scan.
3. In MR mode, use the UP/DOWN arrow keys to select a stored channel.

4.3 Transmitting and Receiving

1. **Receiving:** When the radio is on and tuned to an active frequency, it will automatically receive incoming

transmissions.

2. **Transmitting:** Press and hold the **PTT (Push-To-Talk)** button on the side of the radio. Speak clearly into the microphone. Release the PTT button to stop transmitting and return to receive mode.

4.4 Keypad Functions

- **MENU:** Enters the menu system for advanced settings.
- **UP/DOWN Arrows:** Navigate menu options, change frequencies/channels.
- **EXIT:** Exits the current menu or function.
- **Numbers (0-9):** Used for direct frequency input or selecting menu options.
- **#:** Activates/deactivates keypad lock (long press).
- ***:** Activates/deactivates the FM radio (long press).

4.5 Programming the Radio

The Airiton UV-S9 Plus can be programmed using dedicated software and a programming cable. This allows for customization of channels, frequencies, and other advanced settings.

Video 4.1: This video demonstrates the process of connecting the Airiton UV-S9 Plus to a computer using a programming cable, installing the necessary software, reading data from the radio, editing frequencies, and writing the updated frequencies back to the radio. It provides a visual guide for channel programming.

General Programming Steps:

1. Obtain the correct 2-pin programming cable for the UV-S9 Plus.
2. Download and install the UV-S9 Plus programming software on your computer. It is recommended to temporarily disable antivirus software during installation to prevent interference.
3. Connect the programming cable to the radio's accessory jack and to a USB port on your computer.
4. Open the programming software and identify the correct COM port for the cable.
5. Read the current configuration from the radio.
6. Edit frequencies, channel names, and other parameters as needed within the software.
7. Write the new configuration to the radio.

5. Maintenance

5.1 Cleaning

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure all ports are dry before use.

5.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the radio and battery in a cool, dry place when not in use for extended periods. Do not expose the battery to extreme temperatures.

5.3 Storage

When storing the radio for a long time, remove the battery. Store the radio in a dry, dust-free environment away from direct sunlight and extreme temperatures.

6. Troubleshooting

- **Radio not powering on:** Check if the battery is properly installed and charged. Ensure the volume/power knob is turned clockwise.
- **Cannot transmit or receive:** Verify the antenna is securely attached. Check the selected frequency or channel. Ensure the battery has sufficient charge.
- **Poor audio quality:** Adjust the volume. Check the antenna connection. Ensure you are within range of other radios or repeaters.
- **Programming issues:** Confirm the programming cable is correctly connected and the drivers are installed. Ensure the correct COM port is selected in the software. Temporarily disable antivirus software if it interferes with the programming process.

7. Specifications

Feature	Specification
Brand	Airiton
Model	UV-S9 Plus
Item Weight	15.8 ounces
Package Dimensions	7.24 x 4.37 x 4.09 inches
Voltage	7.4 Volts
Connectivity Technology	USB
Tuner Technology	UHF, VHF
Power Source	Battery Powered
Radio Bands Supported	2-Band
Manufacturer	Airiton

Figure 7.1: Physical dimensions of the Airiton UV-S9 Plus radio and its antenna.

8. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or contact the manufacturer directly. Keep your proof of purchase for warranty claims.