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› SAMCOM FPCN10A Two-Way Radio User Manual

## SAMCOM FPCN10A

# SAMCOM FPCN10A Two-Way Radio User Manual

Model: FPCN10A

## 1. PRODUCT OVERVIEW

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The SAMCOM FPCN10A is a professional-grade UHF two-way radio designed for reliable long-range communication. It features a durable build, a high-capacity battery, and multiple channels with privacy codes for clear and secure conversations.

### Package Contents

The SAMCOM FPCN10A radio kit includes the following items:

- SAMCOM FPCN10A Radios (2 units)
- Earpieces (2 units)
- Charger Bases with AC adapters (2 units)
- Belt Clips (2 units)
- Batteries (2 units)
- Antennas (2 units)
- User Manual

# Package Includes



Figure 1: Contents of the SAMCOM FPCN10A Two-Way Radio Package. This image displays all components included with the purchase, such as the radios, charging equipment, and accessories.

## 2. SETUP

### 2.1 Battery Installation and Charging

The SAMCOM FPCN10A radios are powered by a 3000mAh Lithium Polymer battery. Ensure the battery is fully charged before first use.

1. To install the battery, align the battery pack with the back of the radio and slide it upwards until it clicks into place.
2. To remove the battery, press the two small tabs on the sides of the radio (near the top of the battery compartment) and slide the battery downwards.
3. Place the radio (with battery installed) into the charger base. The charger base connects to a standard AC wall outlet.
4. The charging indicator light on the charger base will show the charging status. A full charge typically

takes 4-5 hours.

**Rechargeable 3000mAh Battery**  
190 hours of standby and 33 hours of working

3000mAh

Removeable Battery can be charged seperately

**CAUTION**

- DO NOT DISASSEMBLE
- DO NOT DISPOSE OF IN FIRE
- DO NOT CHARGE OR CHANGE BATTERIES IN HAZARDOUS LOCATION
- DO NOT SHORT CIRCUIT THE BATTERY PACK (E.g. 3.7V/3000mAh)

**Figure 2:** Battery and Charging Cradle. The image illustrates the removable 3000mAh battery and the dedicated charging cradle for the FPCN10A radio.



Figure 3: Rear View of Radio with Battery Removed. This image highlights the battery attachment mechanism and the FCC ID label on the radio's back.

## 2.2 Antenna Attachment

The radio comes with a detachable SMA female connector antenna. Carefully screw the antenna onto the connector at the top of the radio until it is finger-tight. Do not overtighten.

## 2.3 Attaching the Belt Clip

The belt clip can be attached to the back of the radio for convenient carrying. Align the belt clip with the designated slots on the battery pack and secure it with the provided screws.



Figure 4: Radio with Belt Clip. The image demonstrates the radio with its belt clip attached, showing how it can be conveniently carried.

### 3. OPERATING INSTRUCTIONS

#### 3.1 Power On/Off and Volume Control

1. To power on the radio, rotate the top-left knob clockwise. You will hear a power-on tone and the display will illuminate.
2. Continue rotating the same knob to adjust the volume. Clockwise increases volume, counter-clockwise decreases it.
3. To power off, rotate the knob counter-clockwise until it clicks.

Video 1: SAMCOM FPCN10A Walkie Talkie Power On. This video demonstrates the process of turning on the radio and adjusting its volume.

#### 3.2 Channel Selection

The SAMCOM FPCN10A features 20 channels. To select a channel:

1. Rotate the top-right knob to cycle through the available channels. The selected channel number will be displayed on the LCD screen.
2. The radio supports CTCSS/DCS codes to minimize interference and ensure private conversations within your group. These are typically pre-programmed.

### **3.3 Transmitting and Receiving**

1. To transmit, press and hold the Push-to-Talk (PTT) button located on the side of the radio. Speak clearly into the microphone.
2. Release the PTT button to stop transmitting and return to receive mode.
3. The radio also supports Voice-Activated Transmission (VOX) for hands-free operation. This feature can be enabled or disabled through programming.

### **3.4 Group Call Function**

The FPCN10A radios support a group call function, allowing you to communicate with multiple team members simultaneously across different channels. This feature enhances coordination for various operations.



Figure 5: One-to-Many Communication. This image illustrates the radio's capability for group communication, ideal for coordinating teams in large venues.

### 3.5 Scanning Feature

The radio includes a scanning feature that allows it to automatically scan through programmed channels to detect active transmissions. This can be useful for monitoring multiple channels without manual switching.

### 3.6 Communication Range

The actual communication range of the FPCN10A radios varies depending on terrain and environmental conditions. Typical ranges are:

- 1-2 miles in cities or towns
- 2-15 miles in open areas, suburbs, or seascides

# Long Range Communication



**Figure 6:** Long Range Communication. This diagram visually represents the varying communication distances achievable with the radio based on the surrounding environment.

## 4. MAINTENANCE

### 4.1 Battery Care

The 3000mAh battery provides over 24 hours of talk time and up to 250 hours of standby time. To maximize battery life:

- Fully charge the battery before initial use.
- Avoid overcharging or completely draining the battery.
- Store the radio and battery in a cool, dry place when not in use.

# ULTRA LONG WORKING TIME



Figure 7: Ultra Long Working Time. This graphic provides an overview of the radio's battery performance, including standby and operational durations.

Video 2: SAMCOM FPCN10A Walkie Talkie Battery Life Test. This video demonstrates the battery life and low battery alert feature of the radio.

## 4.2 Cleaning and Durability

The FPCN10A radios are designed to be rugged and durable, with resistance to dust, shock, and vibration, and a 2-meter drop rating. They are also water-resistant.

- Clean the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure the battery contacts are clean and dry.
- While water-resistant, avoid submerging the radio or exposing it to high-pressure water jets.

## 5. TROUBLESHOOTING

### 5.1 No Power

- Check if the battery is properly installed and fully charged.
- Ensure the power/volume knob is rotated clockwise to the 'ON' position.

## 5.2 Cannot Transmit or Receive

- Verify that the radio is on the correct channel.
- Ensure the antenna is securely attached.
- Check that the battery has sufficient charge.
- Confirm that you are within the effective communication range.
- If using CTCSS/DCS codes, ensure they match the receiving radio.

## 5.3 Poor Audio Quality

- Adjust the volume knob.
- Ensure the microphone and speaker are not obstructed.
- Move to an area with less interference or closer to the other radio.

## 5.4 Programming Issues

The SAMCOM FPCN10A radios are programmable. If you encounter issues with channel settings or advanced features, specialized programming software and a programming cable are required. Refer to the SAMCOM support website for programming guides and software downloads.

# 6. SPECIFICATIONS

Feature	Detail
Model Number	FPCN10A-2025
Frequency Range	UHF 406.1MHz-470MHz
Number of Channels	20
Battery Type	Lithium Polymer
Battery Capacity	3000mAh
RF Output Power	Up to 2 Watts
Voltage	7.4 Volts
Item Weight	1.98 pounds
Product Dimensions	1.81"D x 5.63"W x 1.81"H
Display Type	LCD
Water Resistance Level	Water Resistant
FCC ID	2AIOQ-FPCN10A

## **7. WARRANTY AND SUPPORT**

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### **7.1 Warranty Information**

The SAMCOM FPCN10A radios come with a 3-year manufacturer's warranty. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use.

### **7.2 Customer Support**

For technical assistance, troubleshooting, or warranty inquiries, please visit the official SAMCOM website or contact their customer service department. Contact information can typically be found on the product packaging or the manufacturer's website.