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### iFi xCAN

# iFi xCAN Portable Headphone Amplifier User Manual

Model: xCAN

## 1. INTRODUCTION

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Thank you for purchasing the iFi xCAN, a high-performance portable dual mono balanced headphone amplifier. The xCAN is engineered to deliver exceptional audio quality from your digital and analog sources, featuring advanced Bluetooth connectivity with AptX and AAC codecs, and versatile wired input/output options. This manual will guide you through the setup, operation, and maintenance of your xCAN to ensure optimal performance and longevity.

## 2. PRODUCT OVERVIEW

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### 2.1 Package Contents



Figure 2.1: The iFi xCAN amplifier shown with its complete set of included accessories, which typically consist of various audio cables, a USB charging cable, and a protective pouch.

Please check that all items are present in your package:

- iFi xCAN Portable Headphone Amplifier
- USB-C to USB-A charging cable
- 3.5mm to 3.5mm audio cable
- 2.5mm to 2.5mm balanced audio cable
- Protective carrying pouch
- User Manual and Quick Start Guide

## 2.2 Front Panel Controls and Connections



Figure 2.2: The front panel of the iFi xCAN, featuring the central volume knob with integrated LED, 2.5mm balanced output, 3.5mm single-ended output, and buttons for XBass II and 3D+ sound enhancements.

1. **2.5mm Balanced Output (BAL):** Connect balanced headphones with a 2.5mm TRRS connector.
2. **3.5mm Single-Ended Output (SE):** Connect single-ended headphones with a 3.5mm TRS connector.
3. **Volume Control / Power Button:** Rotate to adjust volume. Press and hold to power on/off. The LED around the knob indicates status and battery level.
4. **3D+ Button:** Toggles iFi's 3D+ holographic sound system for a wider soundstage.
5. **XBass II Button:** Toggles iFi's XBass II bass enhancement. Press once for Bass, press again for Bass + Presence, press a third time to turn off.

### 2.3 Rear Panel Connections



Figure 2.3: The rear panel of the iFi xCAN, displaying the USB-C input for charging and data, a 3.5mm single-ended analog input, and a 2.5mm balanced analog input.

1. **USB-C Input (5V):** For charging the xCAN and for digital audio input from a computer or compatible device.
2. **3.5mm Single-Ended Input (SE):** For analog audio input from devices with a 3.5mm output.
3. **2.5mm Balanced Input (BAL):** For analog audio input from devices with a 2.5mm balanced output.

## 3. SETUP

### 3.1 Charging the xCAN

Before first use, fully charge the xCAN using the supplied USB-C cable connected to a USB power adapter (not included) or a computer's USB port. The LED around the volume knob will indicate charging status.

- **Green:** Fully charged
- **White:** Charging (80% - 99%)
- **Yellow:** Charging (20% - 79%)
- **Red:** Charging (below 20%)

### 3.2 Connecting to Audio Sources

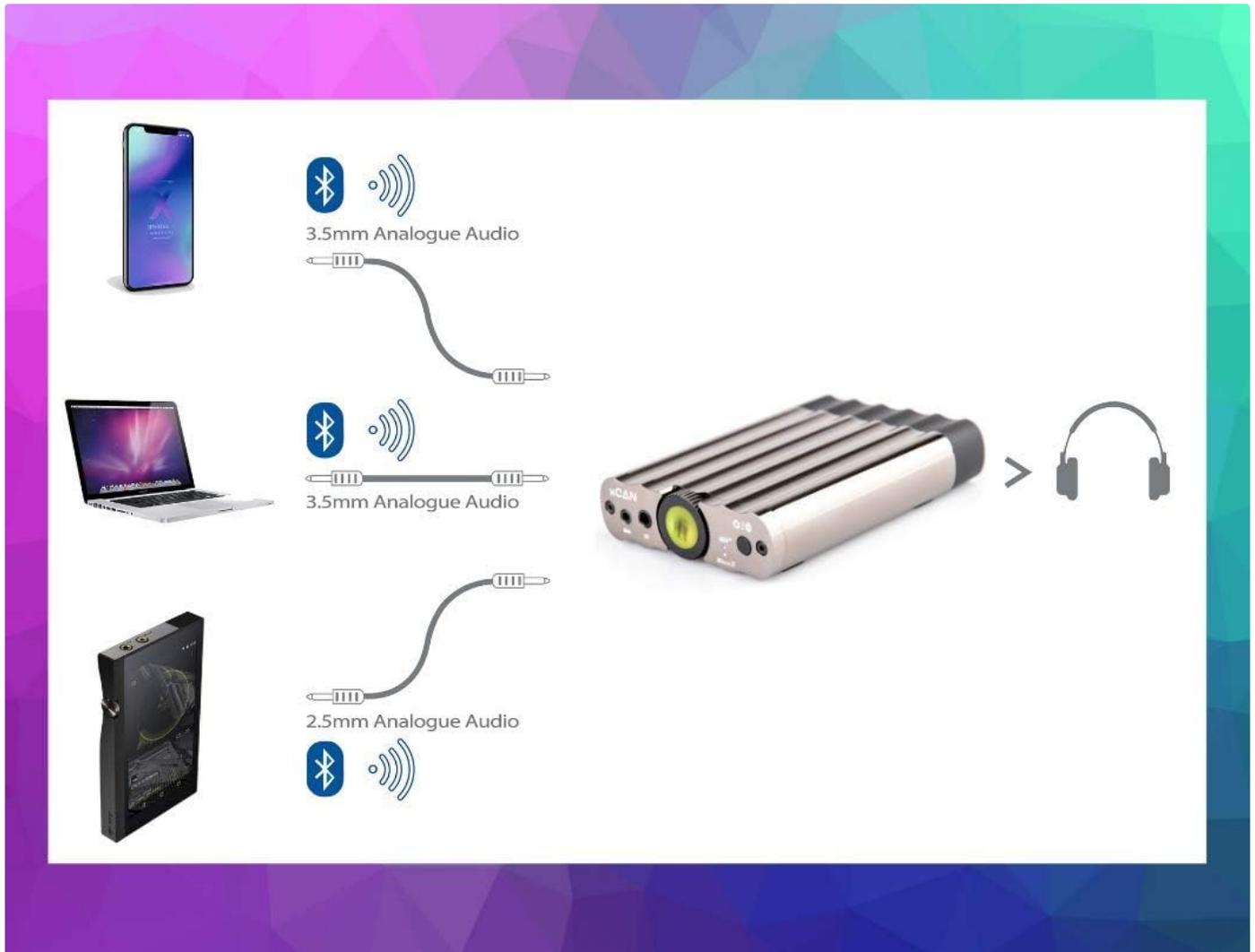


Figure 3.1: A visual guide illustrating how to connect the iFi xCAN to different audio sources, including smartphones, laptops, and digital audio players, using both Bluetooth wireless and wired 3.5mm or 2.5mm analog connections.

The xCAN offers both wired and wireless connectivity options:

- **Bluetooth:** For wireless connection to smartphones, tablets, and computers.
- **Wired Analog:** Use the 3.5mm or 2.5mm balanced input for direct connection to audio players or other devices.
- **Wired Digital (USB-C):** Connect to a computer or compatible digital source for high-resolution audio playback.

### 3.3 Connecting Headphones

Connect your headphones to the appropriate output on the front panel:

- For balanced headphones, use the 2.5mm BAL output.
- For single-ended headphones, use the 3.5mm SE output.



Figure 3.2: The iFi xCAN amplifier connected via cable to a smartphone, with in-ear monitors plugged into the amplifier's output, demonstrating a typical portable audio setup.



Figure 3.3: The iFi xCAN amplifier connected to a digital audio player (DAP) and in-ear monitors, showcasing its use as an external amplifier for high-fidelity portable setups.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Power On/Off

To power on the xCAN, press and hold the volume knob for approximately 3 seconds. The LED around the knob will illuminate. To power off, press and hold the volume knob again for 3 seconds.

### 4.2 Volume Control

Rotate the central knob clockwise to increase volume and counter-clockwise to decrease volume. Start with a low volume level before playing audio to prevent sudden loud sounds.

### 4.3 Bluetooth Pairing

To enter Bluetooth pairing mode, short press the volume knob twice. The LED will flash blue. On your device (smartphone, tablet, computer), search for "iFi xCAN" in the Bluetooth settings and select it to pair. Once paired, the LED will show a solid blue light.

### 4.4 XBass II and 3D+ Functions

These functions enhance your listening experience:

- **XBass II:** Press the XBass II button to cycle through modes:
  - **Bass:** Enhances low frequencies.
  - **Bass + Presence:** Enhances low frequencies and adds vocal presence.
  - **Off:** No enhancement.
- **3D+:** Press the 3D+ button to toggle the holographic sound system on or off. This widens the perceived soundstage, making the audio sound more spacious.

### 4.5 LED Indicators

The LED around the volume knob provides important status information:

LED Color	Status Indication
Green	Battery Full / Fully Charged
White	Battery 80% - 99%
Yellow	Battery 20% - 79%
Red	Battery below 20% / Charging (Red)
Flashing Blue	Bluetooth Pairing Mode
Solid Blue	Bluetooth Connected

## 5. MAINTENANCE

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To ensure the longevity and optimal performance of your iFi xCAN, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols.
- **Storage:** Store the xCAN in a cool, dry place away from direct sunlight and extreme temperatures. Use the provided protective pouch when transporting.

- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently. If storing for an extended period, charge the battery to about 50% before storage.
- **Avoid Moisture:** Keep the device away from water and high humidity.
- **Handle with Care:** Avoid dropping or subjecting the device to strong impacts.

## 6. TROUBLESHOOTING

If you encounter any issues with your iFi xCAN, please refer to the following common problems and solutions:

Problem	Possible Cause / Solution
No power / Device won't turn on	<ul style="list-style-type: none"> <li>◦ Battery is depleted. Connect the xCAN to a USB power source and allow it to charge for at least 30 minutes before attempting to power on.</li> <li>◦ Ensure the power button (volume knob) is pressed and held for 3 seconds.</li> </ul>
No sound from headphones	<ul style="list-style-type: none"> <li>◦ Check if the xCAN is powered on and the volume is turned up.</li> <li>◦ Ensure headphones are correctly plugged into the appropriate output (2.5mm BAL or 3.5mm SE).</li> <li>◦ Verify the audio source is playing and its volume is not muted or too low.</li> <li>◦ If using Bluetooth, ensure the xCAN is paired and connected to your device. Try re-pairing.</li> <li>◦ If using wired input, ensure the cable is securely connected to both the xCAN and the source device.</li> </ul>
Bluetooth connection issues	<ul style="list-style-type: none"> <li>◦ Ensure the xCAN is in pairing mode (flashing blue LED).</li> <li>◦ Move the xCAN closer to the source device.</li> <li>◦ Clear the Bluetooth pairing list on your source device and try pairing again.</li> <li>◦ Ensure no other devices are interfering with the Bluetooth signal.</li> </ul>
Distorted or poor sound quality	<ul style="list-style-type: none"> <li>◦ Check the source audio quality.</li> <li>◦ Ensure cables are fully inserted and not damaged.</li> <li>◦ Try disabling XBass II and 3D+ to see if the distortion persists.</li> <li>◦ Reduce the volume level on both the source and the xCAN.</li> </ul>

## 7. SPECIFICATIONS

Feature	Detail
Model Name	xCAN
Brand	iFi
Connectivity Technology	Wireless (Bluetooth), Wired (USB-C, 3.5mm, 2.5mm)
Bluetooth Codecs	AptX, AAC (and others supported by iFi)

Feature	Detail
Headphone Outputs	2.5mm Balanced, 3.5mm Single-Ended
Analog Inputs	2.5mm Balanced, 3.5mm Single-Ended
Digital Input	USB-C
Color	Black
Included Components	Cables, Protective Pouch

## 8. WARRANTY AND SUPPORT

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The iFi xCAN comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official iFi website for detailed warranty terms and conditions.

For technical support, product registration, or further inquiries, please visit the iFi Audio support page or contact their customer service directly.

**iFi Audio Official Website:** [ifi-audio.com](https://ifi-audio.com)

