

ifi XCAN Bluetooth Headphone Amp with 3D and xBass



ifi XCAN Bluetooth Headphone Amp with 3D and xBass User Manual

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ifi XCAN Bluetooth Headphone Amp with 3D and xBass



Product Usage Instructions

Power ON/OFF and Volume Control

To power on the xCAN, press and hold the rotary knob until it lights up. The LED on the rotary knob will indicate the last mode used. Release the knob to accept that mode or keep it pushed in to cycle through the two modes. To power off, push and hold the rotary knob for several seconds until all the LEDs change to white, then release.

Input Modes

The xCAN must be switched off and then powered back on to change input modes. The available input modes are:

- Analog Input (via SE or BAL)
- Wireless Bluetooth (Connected)
- Wireless Bluetooth (Awaiting connection)
- Wireless Bluetooth (Pairing)

Wireless Bluetooth Mode

The xCAN can store up to 8 paired Bluetooth devices. When the xCAN is in Wireless mode, it will search for a previously paired device for 15 seconds. If a stored device is not found, it will automatically enter pairing mode. A new Bluetooth device can be “force paired” by pressing the ‘Settings’ button for 3 seconds while in Bluetooth Mode.

Mute and Volume Control

To mute the xCAN, either press the rotary knob or rotate it until the volume is muted. To unmute, press the knob again or turn the rotary. The LED on the rotary knob indicates the volume level.

Output Connections

- 2.5mm Balanced Output: For connection of 2.5mm balanced headphones/IEMs.
- 3.5mm Single-Ended Output: For connection of 3.5mm single-ended headphones/IEMs to enjoy the S-Balanced circuitry.

Input Connections

- **3.5mm Single-Ended Input:** For connection of 3.5mm single-ended sources such as a Smartphone.
- **2.5mm Balanced Input:** For connection of 2.5mm balanced sources such as a Digital Audio Player.

USB-C Charge Port

The USB-C port is only for charging the xCAN. It does not perform any other function.

Battery Status

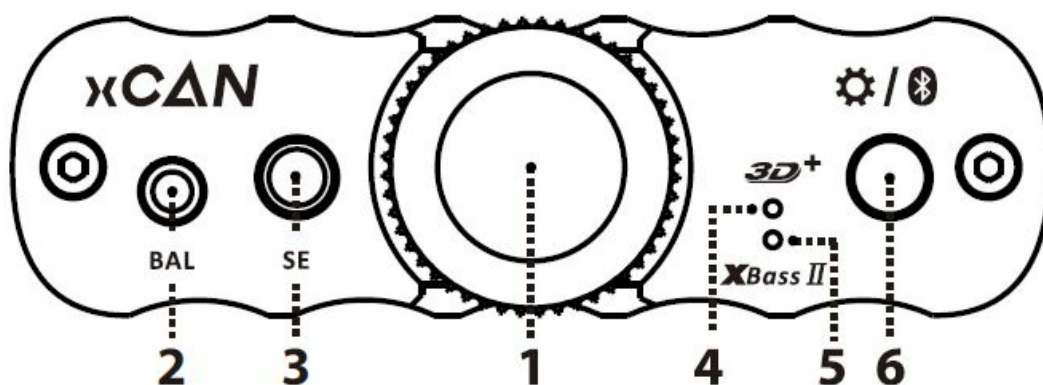
The LED on the xCAN indicates the battery status:

- **LED White:** 75% battery remaining
- **LED Green:** 74%-25% battery remaining
- **LED Red:** 24%-10% battery remaining
- **LED Red (flashing):** 10% battery remaining (while charging)

FAQ

- **Q:** How long does a fully-charged battery last when using items?
- **A:** With IEMs, a fully-charged battery offers approximately 6-8 hours of music enjoyment.
- **Q:** Can I use single-ended headphones with the xCAN?
- **A:** Yes, you can connect single-ended headphones/IEMs to the xCAN using the 3.5mm single-ended output.
- **Q:** Why should I use balanced wired headphones/IEMs with the xCAN?
- **A:** We recommend the use of balanced wired headphones/IEMs as this wiring configuration is superior and takes full advantage of the xCAN's balanced circuitry.

ON/OFF, Analogue Volume Rotary with LED



Power ON (with mode selection): Press and hold the rotary knob until it lights up. The rotary knob on the front faceplate will light up corresponding to the last mode used. Either release for the last mode or keep the rotary knob pushed in to cycle through the two modes. Release to accept that mode.

LED INPUT

- Green Analogue (via SE or BAL)

- Blue* Wireless Bluetooth (Connected)
- Blue* (flashing) Wireless Bluetooth (Awaiting connection)
- Blue/Red* (flashing) Wireless Bluetooth (Pairing) *xCAN with Bluetooth module.

The xCAN allows 2 cycles through attempts (approx. 20 seconds) for selection before automatically powering off.

Power OFF: Push and HOLD the rotary for several seconds until all the LEDs change to White then release to power off.

Wired/Wireless* mode switching: The xCAN must be switched off and then powered back on to change input mode. See Power ON (with mode selection).

Wireless* Mode (Bluetooth)

- The xCAN can store up to 8 paired Bluetooth devices.
- From the switch on, if the xCAN is in Wireless mode (Blue), it will 'blink' Blue as it searches for 15 seconds for a previously paired device. If a stored device is not found, it will automatically enter pairing mode (INPUT: Blue/Red blinking).
- A new Bluetooth device can be 'force paired' by pressing the 'Settings' button (gear icon) for 3 seconds, while in BT Mode.
- **Mute:** Either press the rotary knob to mute or rotate so the volume is muted. To unmute press it again OR turn the rotary.

Rotary knob/Volume

LED Volume

- Red -9 to +12 dB (100%-91%)
- Yellow -27 to -10 dB (90%-73%)
- Green -45 to -28 dB (72%-55%)
- Cyan -63 to -46 dB (54%-37%)
- Magenta -81 to -64 dB (36%-19%)
- Blue -101 to -82 dB (18%-0%)
- Off Mute

Balanced 2.5mm output

For connection of 2.5mm balanced headphones/IEMs.

Single-Ended 3.5mm output

- For connection of 3.5mm single-ended headphones/IEMs to enjoy the S-Balanced circuitry.
- **Tip:** We recommend the use of balanced wired headphones/IEMs as this wiring configuration is superior and takes full advantage of the xCAN's balanced circuitry.

3D+® Matrix LED

The 3D+® Matrix (on/off) recreates a holographic sound field like listening to a pair of speakers. It is a pure analogue signal processing circuit designed for listening to headphones as if one were listening to speakers. This addresses the 'music inside the head' impression which is uncomfortable to listen.

XBass II® LED

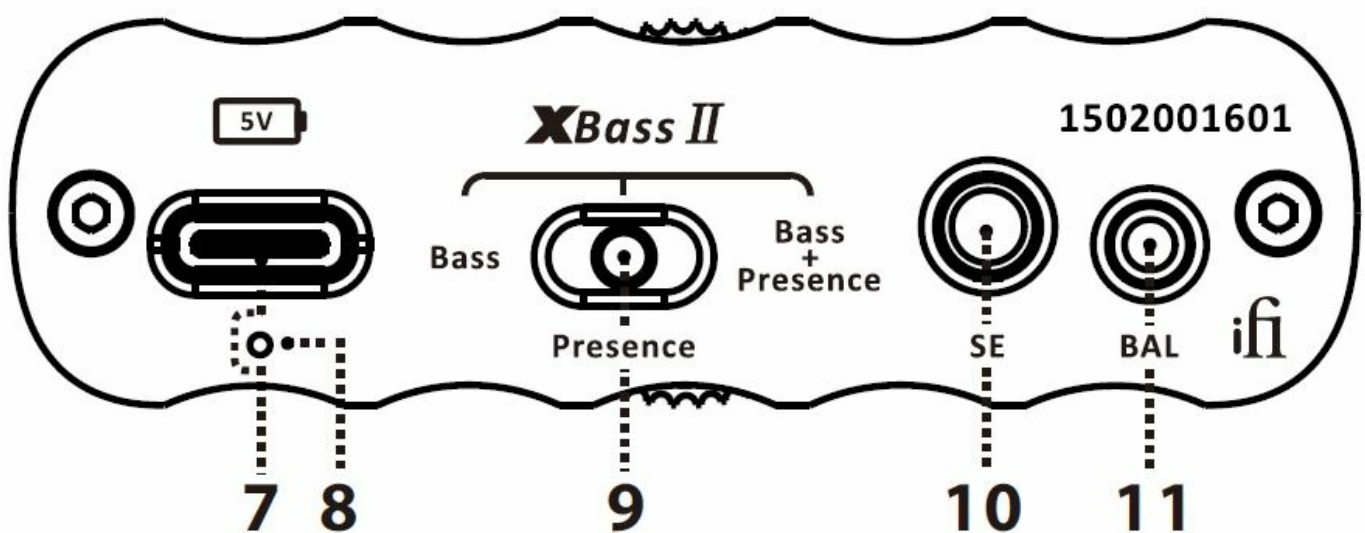
XBass II® (On/Off) has been implemented in the xCAN for the first time. If XBass II is used, please refer to point section 9. XBass II modes.

Settings

This button cycles between:

- 3D+®
- XBass II+®
- XBass II® & 3D+®
- Off
- Pairing (Bluetooth, Hold)

USB-C charge port



- The USB-C port is ONLY for charging (it does not perform any other function).
- When the xCAN is off and a 5V USB power supply is detected, the LED will change colour to show the various states of charge (see next section).

LED for Battery Status

LED Status

- White* $\geq 75\%$
- Green* 74%-25%
- Red* 24%-10%
- Red (flashing) $\leq 10\%$

The battery LED will flash when it is charging

With IEMs, a fully charged battery offers approx. 6-8 hours of music enjoyment.

XBass II® Modes

In recent times, new research into headphone frequency response showed that a purely 'flat' response is not correct. Our present XBass® fits the profile of the low-frequency correction required. However, it was also shown that a certain amount of lower midrange boost is needed to give many headphones a more 'natural' sound. As this lower midrange region is usually also called the "presence" region we have used this term to indicate the lower midrange correction. In the xCAN, XBass II (or perhaps better HP-EQ) can be selected to have either Bass + Presence correction, only Bass or Presence correction only. Select according to listening preference.

Tip: Sonically-hindering DSP is NOT used for XBass II® nor 3D+® Matrix systems. They use the highest-quality discrete components and operate purely in the analogue domain. Hence all the clarity and resolution of the original music is fully retained.

Single-Ended 3.5mm input

For connection of 3.5mm single-ended source such as a Smartphone.

Tip: We recommend the use of balanced input to maximise the sound quality of the xCAN's balanced circuitry.

Balanced 2.5mm input

For connection of 2.5mm balanced source such as a Digital Audio Player.

Specifications

- **Max Output:** S-Balanced: > 3.8V/45 mW (@ 300 Ohm)
 - > 3.5V/380 mW (@ 32 Ohm)
 - > 3.1V/600 mW (@ 16 Ohm)
 - **Balanced:** > 7.6V/90 mW (@ 600 Ohm)
 - > 7.2V/800 mW (@ 64 Ohm)
 - > 5.7V/1000 mW (@ 32 Ohm)
- **THD &N:** S-Balanced: < 0.005% (@ 100 mW/1.26V 16 Ohm)
 - **Balanced:** < 0.006% (@ 360 mW/2.4V 16 Ohm)
- **SNR:** S-Balanced:> 121dBA (@ 3.8V)
 - **Balanced:** > 120dBA (@ 7.6V)
- **Max. Input:** S-Balanced: 3V RMS
 - **Balanced:** 6V RMS
- **Gain:** -95dB to +18dB continuously adjustable (using Volume control)
- **Frequency Response:** 2Hz – 200kHz (-3dB)
- **Playback Time:** 10 – 20 Hours (charging via USB-C port)
- **Battery:** 3.8V/2200mAh
- **Dimensions:** 95 (l) x66.5 (w) x19 (h) mm
- **Weight:** 131g (0.29 lbs)
- **Warranty period:** 12 months

Specifications are subject to change without notice.

warranty

- To activate the warranty for this iFi product, you must register with the iFi website.
- Component :
- Serial no:

Terms and Conditions


iFi guarantees that this iFi product shall be free from defects in materials and workmanship for 1 year for parts and labour.

The warranty period begins at the date of retail sale by an authorized iFi distributor/dealer and is subject to the following requirements and understandings:

- It is the responsibility of the buyer within 30 days from the original sale, to register and activate the product warranty with the iFi website.
- The original invoice must be produced for authentication before any warranty claim.
- The iFi product must not have been modified in any manner whatsoever, or the warranty will immediately become void.
- The iFi warranty is only valid in the country of original sale and is not transferable.
- The product must not have been stored in a humid environment; nor subjected to weather, water, or saltwater spray.
- iFi shall not, under any circumstances, be liable for any incidental or consequential damages arising from the loss of property or other damage or losses due to the failure of an iFi product. iFi is not liable for loss of use or inconvenience caused by the failure of an iFi product. iFi is not liable for damage caused to other audio components because of the failure of an iFi product.
- During the warranty period, it will repair the product to working order, or, at iF's discretion, replace the defective module with a similar available product.
- All repairs performed after the expiry of the warranty period will be charged to the owner and will carry a 180-day warranty on parts and labour. The customer is responsible for shipping the unit to the iFi distributor in the original packaging. This includes the payment of any shipping charges and related taxes.
- Should any warranty issues arise, iFi's decision is full and final.

ifi-audio.com.

Documents / Resources

	ifi XCAN Bluetooth Headphone Amp with 3D and xBass [pdf] User Manual XCAN Bluetooth Headphone Amp with 3D and xBass, XCAN, Bluetooth Headphone Amp with 3D and xBass, Headphone Amp with 3D and xBass, Amp with 3D and xBass
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References

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