



ifi XCAN User Manual

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1. 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 last mode or keep the rotary knob pushed in to cycle through the two modes. Release to accept that mode.

LED

Green

Blue*

Blue• (flashing)

Blue/Red* (flashing)

*x CAN with Bluetooth module.

INPUT

Analogue (via SE or BAL)

Wireless Bluetooth (Connected)

Wireless Bluetooth (Awaiting connection)

Wireless Bluetooth (Pairing)

The x CAN allows 2 cycle 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 x CAN must be switched off and then powered back on to change input mode. See Power ON (with mode selection).

Wireless* Mode (Bluetooth):

The x CAN is able to store up to 8 paired Bluetooth devices.

From switch on, if the x CAN 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 volume is muted. To un mute press it age in OR turn the rotary.

Rotary knob/Volume:

LED – Volume

Red -9to+12dB (100%-91%)

Yellow -27to-10dB (90%-73%)

Green -45 to-28 dB (72%-55%)

Cyan -63 to-46 dB (54%-37%)

Magenta -81 to-64dB (36%-19%)

Blue -101 to-82dB (18%-0%)

Off Mute

2. Balanced 2.5mm output

For connection of 2.5mm balanced headphones/IEMs.

3. Single-Ended 3.5mm output

For connection of 3.5mm single-ended headphones/IEMs to enjoy the 5-Balanced circuitry.

Tip: We recommend the use of balanced wired headphones/IEMs as this wiring configuration is superior and takes full advantage of the x CAN's balanced circuitry.

4. 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 was listening to speakers. This addresses the 'music inside the head' impress on which is uncomfortable for listening.

5. X Bass II™ LED

X Bass II• (On/Off) has been implemented in the x CAN for the first time. If X Bass II is used, please refer to point section 9. X Bass II modes.

6.Settings

This button cycles between:

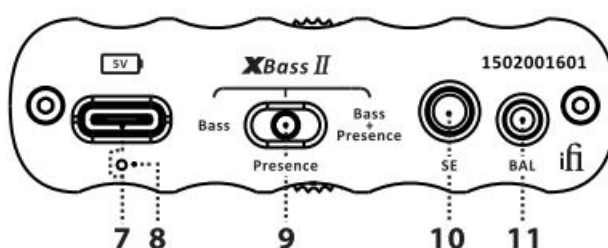
3D+•

X Bass II+•

X Bass II 0 & 3D+•

Off

Pairing (Bluetooth, Hold)



7. USB-C charge port

The USB-C Port is ONLY for charging (it does not perform any other function).

When the x CAN is off and a 5V USB power supply is detected, the LED will change color to show the various states of charge (see next section).

Please only use a USB-A to USB-C cable to recharge the x CAN (as a USB-C to USB-C setup will not be detected).

8. LED for Battery Status

LED Status

White* >75%

Green* >25%

Red* >10%

Red (flashing) ~10%

*Battery LED will flash when it is charging

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

9. X Bass II® Modes

In recent times, new research into headphone frequency response showed that a purely 'flat' response is not correct. Our long present X Bass™ 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 x CAN, X Bass 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 X Bass 1/0 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.

10. 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 take maximize the sound quality of the x CAN's balanced circuitry.

11. 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: > 121 dBA (@ 3.BV)
Balanced: > 120dBA(@7.6V)

Max. Input: S-Balanced: 3VRMS
Balanced: 6VRMS

Gain:-95dB to + 18dB continuously
adjustable (using Volume control I)

Frequency Response: 2Hz-200kHz (-3dB)
Playback lime: 12-18 Hours (charging via USB-C port)
Battery: 3.8V /2200mAh
Dimensions: 95 (l) x66.5 (w) x1 9 (h) mm
Weight: 131 g (0.29 l bs)
Warranty period: 12months
Specifications are subject to change without notice.

Documents / Resources



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XCAN, x series XCAN