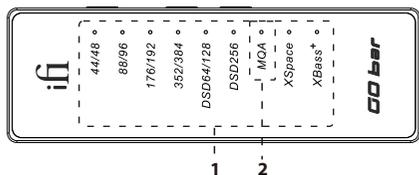# iFi GO bar

Thank you for purchasing the special limited edition gold-plated bar of the GO series. GO bar is a balanced USB audio DAC amplifier.

1. Audio format, frequency and sound effects LED

The LED colour scheme indicates the current sampling frequency and audio format received by the GO bar from the music source. Sound effect modes are also indicated.

LED	Mode
White	44.1/48kHz
White	88.2/96kHz
White	176.4/192kHz
White	352.8/384kHz
White	DSD 64/128
White	DSD 256

Sound effects

LED	Status
Blue	XSpace
Orange	XBass*

Tip: Sonically-hindering DSP is NOT used for XBass+ nor XSpace 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 retained.
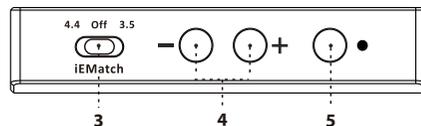
2. MQA and Digital filter LED

MQA:

Green	MQA
Blue	MQA Studio
Magenta	Original Sample Rate*

*MQB

Digital Filter for PCM Playback:

LED	Mode
Cyan	BP
White	GTO
Red	STD
Yellow	MIN
Off	DSD playback

3. iEMatch switch

iEMatch reduces the output level, so that even the most sensitive In-Ear-Monitors (IEMs) can be matched to the GO bar.

iEMatch		
3.5	=	3.5mm headphones
off	=	off
4.4	=	4.4mm headphone

Tip: The GO bar and/or the headphone will not be damaged if the iEMatch switch is adjusted incorrectly, but the attenuation level will not be correct.

4. Volume control and gain

To increase volume, press the + button, and to decrease it, press the - button. Volume level is briefly displayed on the GO bar while pressing one of the volume buttons, shown by the number of white LEDs on at a time - from none to 6.

The increase or decrease of volume can be synchronised with the volume of the mobile phone/computer. The connected device will indicate a change of volume on its display if synchronisation is on, and the device's volume controls can additionally be used to adjust volume. The GO bar's volume buttons are still operational.

By default, the synchronisation feature is off. To switch this on or off, press the settings button (5) for > 8s. On is indicated by the 6 white LEDs switching on in sequence from LED 1 and 6 to the centre. Off is indicated by the 6 white LEDs switching off in the opposite direction.

Turbo Mode increases the gain by 6dB. To switch this on or off, press the + and - volume buttons together for ≥ 2s. Turbo Mode on is indicated by 2 white LEDs increasing to 6 lighting up at the same time for 2s. Normal gain is indicated by 6 white LEDs diminishing to 2 lighting up for 2s.

Tip: For sensitive headphones and earphones, leave Turbo Mode off. For less sensitive headphones, it may be appropriate to switch Turbo Mode on.

5. Settings and Digital filter mode

This button cycles between:
Off > XSpace > XBass+ > XSpace and XBass+ (short click). Please refer to item 1 for sound effects LED indications.

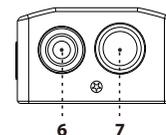Digital filter setting mode (long press ≥2s). Please see below.

Digital filter

To enter digital filter setting mode, press and hold the button for ≥3s. The MQA LED will flash with the currently set digital filter colour (as shown in item 2). Press the + or - buttons (4) to change the filter selection. A short press on the settings button (5) will select and exit the filter setting mode.

The following 4 digital filters are available:

'BP'	(Cyan)	Bit-Perfect: no digital filtering, no pre or post ringing
'STD'	(Red)	Standard, modest filtering, modest pre and post ringing
'MIN'	(Yellow)	Minimum phase, slow roll-off, minimum pre and post ringing
'GTO'	(White)	Gibbs Transient-Optimised: upsampled to 352/384kHz, minimum filtering, no pre ringing, minimum post ringing

Note: If the GTO filter is selected, the only sample rate indicator showing will be 352.8/384kHz, indicating the upsampling operation of this filter.
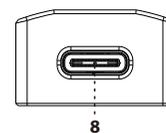
6. S-Balanced 3.5mm headphone output

For connecting 3.5mm headphones. This is a single-ended output.

7. Balanced 4.4mm headphone output

For connecting balanced 4.4mm headphones. This is a fully balanced output.

8. USB-C input

The USB-C socket plays up to 32-bit 384kHz, has full MQA decoding, and native DSD up to DSD256.

Tip: Because the Go bar is a high-performance gadget and the iPhone's power supply is conservative, we recommend using an iPhone 8 or higher for reliable connectivity, and the battery should be charged to 70% or higher.

Warning: *If the GO bar's volume synchronisation function is on, and the music source is Tidal via Windows, please ensure that the Tidal setting of Forced Volume is off. With this function on, there is no volume control possible, and the volume will be at maximum. This has the potential to damage the connected headphone and/or your hearing.*

Specifications

Input:	USB-C
Formats:	PCM 384kHz
	DSD 256
	DXD 384kHz
	MQA Full Decoder
DAC:	Bit-Perfect DSD & DXD DAC by Cirrus Logic
Headphone Outputs:	
Balanced:	4.4mm
UnBAL:	3.5mm
Power Output:	
Balanced:	475mW@32Ω; 7.2V@600Ω
UnBAL:	300mW@32Ω; 3.8V@600Ω
Output Impedance:*	
Balanced:	<1Ω
UnBAL:	<1Ω
SNR:	
Balanced:	132dBA
UnBAL:	108dBA
DNR:	
Balanced:	109dB(A)
UnBAL:	108dB(A)
THD + N:	
Balanced:	<0.002% (6.5mW/2.0V @ 600Ω)
UnBAL:	<0.09% (100mW/1.27V @ 16Ω)
Frequency Response:	20Hz - 45kHz (-3dB)
Power Consumption:	<4W max.
Dimensions:	65 x 22 x 13.2 mm (2.6" x 0.9" x 0.5")
Net weight:	64g (2.3 oz)
Limited Warranty:	12 months**

*With iEMatch engaged: < 3.6Ω
**12 months typical or as permitted/required by local reseller laws.
***Specifications are subject to change without notice.*