

# A MASTERPIECE

WELCOMED BY THE ENTIRE WORLD

## MONT BLANC E12

Portable Headphone Amplifier



Distortion to the Minimum of **0.00003%**

## PROFESSIONAL

OPERATIONAL AMPLIFIER

WITH HIGH FIDELITY

**Gold Operational Amplifier (OPAMP) Pair:**

Mont Blanc adopts the high-performance OPAMP combination

**LME49710 and LME49600** which was specially designed for

Hi-Fi audio products by TI Company located in America.

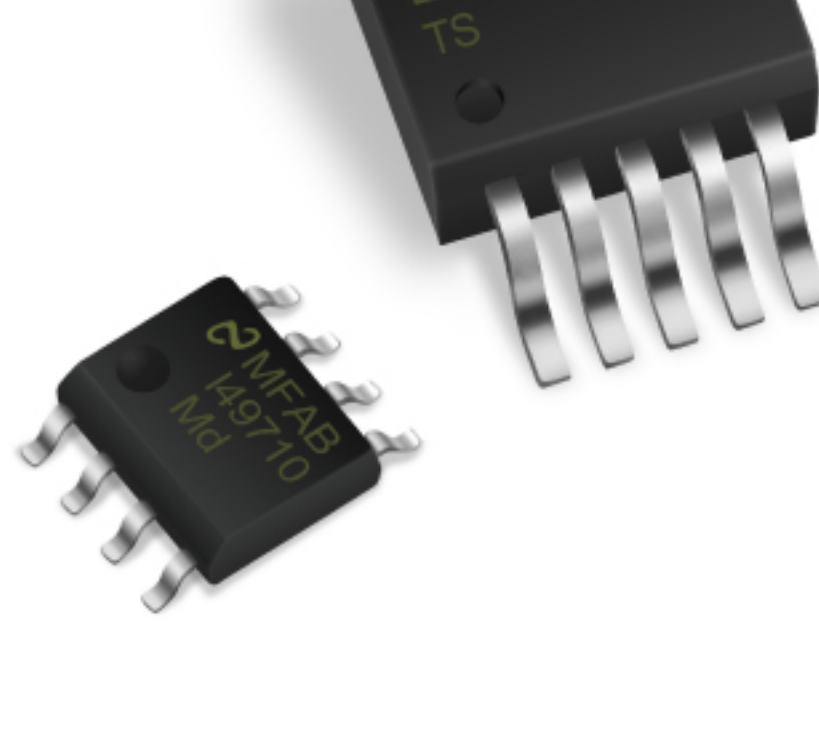
Of the two, LME49710 serves as the amplifier,

while LME49600 plays the role of currency outputting.

The uttermost performance of the two OPAMP can achieve

near-zero distortion at 0.00003%.

Note: 0.00003% only refers to the original technical data of the OPAMP itself, not equals to that of Mont Blanc.



CLASSICAL

## CIRCUIT FRAMEWORK

GUARANTEED SOUND

FIDELITY

As always, OPAMP circuit employs mature while classical design with combination of operational amplifier and buffering which results in perfect balance between high-performance sound fidelity and long-lasting durability. With the addition of **high quality well-chosen audio devices**, such as WIMA capacitor, ALPS potentiometer and battery at high-frequency while low-impedance, it makes the sound of our Mont Blanc to be low-distortion as well as low internal resistance and qualified to rival the glory of the world's most famous piano Steinway.



INNOVATIVE

## POWER DESIGN

High Voltage Supply at **22V**

The built-in Li-polymer battery with large capacity imbedded in Mont Blanc is capable to provide strong power supply.

**+11V voltage** comes from the three cascaded battery,

while the **-11V voltage** is the outcome of the

high-performance DC/DC circuit transformation,

which in the end forms a 22V working voltage.

On the one hand, it can make the OPAMP's high

performance be guaranteed; on the other hand,

it can meet the large dynamic range that required

in boosting big headphones with high impedance.

The total maximum output power

can reach as high as **850mW**.



USB

## SMART RECHARGING

The Quickest and Most Convenient of its Kind

Generally speaking, the three cascaded battery should use the non-standard 14V adapter to get it recharged.

However, to bring convenience to all the end-users,

we get the 5V USB boosted to 14V so as to get the built-in battery recharged. Therefore, users can feel free to charge it by means of computers,

mobile phones or laptops with 5V currency via USB port.

Meanwhile, Mont Blanc would **automatically adjust it**

**to proper charging currency** according to PC USB port and

other charging output currency so as to get the battery

recharged in the soonest time.

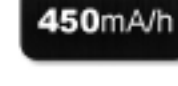
Charging methods without any limits,

customers can choose adapter with high power according

to different needs to shorten the charging time.

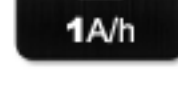
It only takes 3 hours to get it fully recharged by using

the laptop's adapter at 2A currency output.



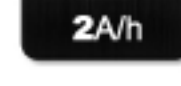
450mAh

Charge via PC USB



1A/h

Charge via the power adapter of your phone



2A/h

Charge via the power adapter of your iPad

## USER-FRIENDLY

FUNCTIONAL INDICATOR

Keeping Everything

**under Control**

The added **charging indicator** makes the Mont Blanc

much more user-friendly. It adopts the popular

respiration lamp effect which would reflect the speed

of the charging. **High blinking** frequency indicates

**quick charging**, while **low blinking** frequency indicates

**slow charging**. This enables the consumers to keep

the status of Mont Blanc in hand. What's more,

in order to cater to different headphones with various

impedances, styles and sensitivities, Mont Blanc kindly

provided gain adjusting and bass boosting function which

enable the end-users to have flexible and customized usage.

Meanwhile, the added simulation of Speaker Sound Field

would lessen the headphone's in-head effect.

High damping rotational potentiometer can avoid

error-operation in moving.

Secured output relay is capable to prevent booting pop noise

and protect headphone & machine in case of any abnormalities.

Output DC and internal fault protection would make

the machine back to normal after one switch round.



High blinking frequency: Quick charging



Low blinking frequency: Slow charging



Sophisticated **Metal Fashion**

## SUPER SLIM WIRE-DRAWING

WORKMANSHIP

Equipped with **all-over aluminum** design externally,

it also embedded with generous cost fixing support internally,

which makes Mont Blanc "Inside equals outside".

The way just as iPhone, apart from the two concealed screws,

all the constitutions on Mont Blanc unify as one seamlessly.

With reasonable design and integrated framework,

we succeeded in making the thickness of a portable amplifier

with high power within **14.5mm**.

Exquisite metal wire-drawing effect has been applied to the surface,

and elaborate treating been processed to the volume adjusting knob

which secures comfortable hand feeling as well as adding more details.

The whole workmanship and details-processing indicate

a qualitative leap in the process of pursuing better

technological design of FiiO Company.

### Specifications:

**Output Power:**

≥880mW(32Ω)

**Headphone Impedance:**

16Ω - 300Ω

**THD+N:**

<0.005%

**SNR:**

≥110dB

**Frequency Response:**

20Hz~20kHz

**Battery Capacity:**

9.7Wh (880mAh/11.1V)

**Battery Life:**

>12hours

**Size:**

124×65.5×14.5(mm)

**Weight:**

159g



124

65.5

14.5