

aune

X7s

甲类耳放/前置

Class-A Headphone Amplifier With Balanced Output

使用手册 / Manual

前言

亲爱的用户：

非常感谢您选择 aune 出品的 X7s 甲类耳放前置，我们感到非常荣幸！

希望 X7s 甲类耳放前置能给您带来高保真的音乐体验和乐趣！

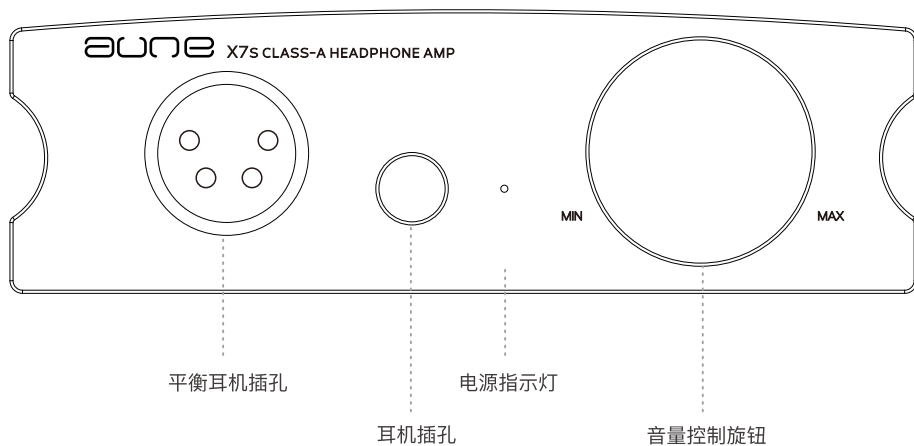
我们建议您先阅读本手册，以便正确使用 X7s 甲类耳放前置的所有功能！

Tel: 027-85420526

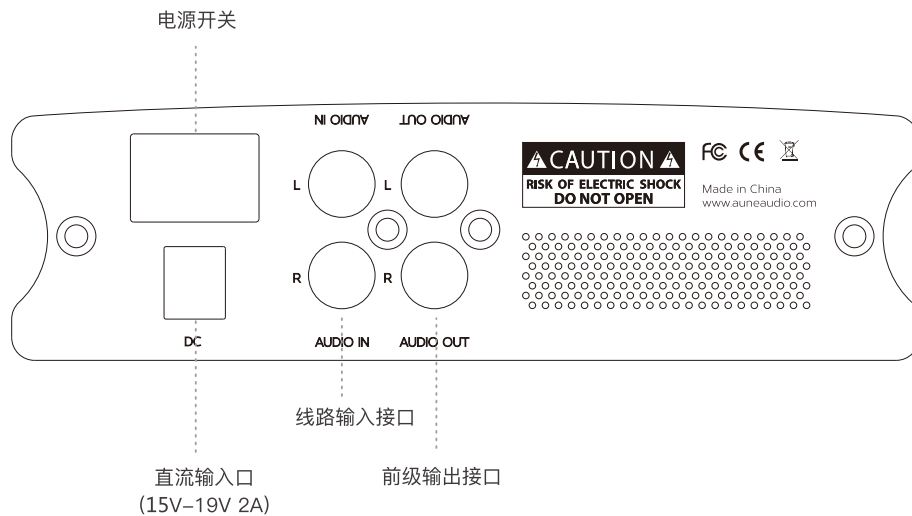
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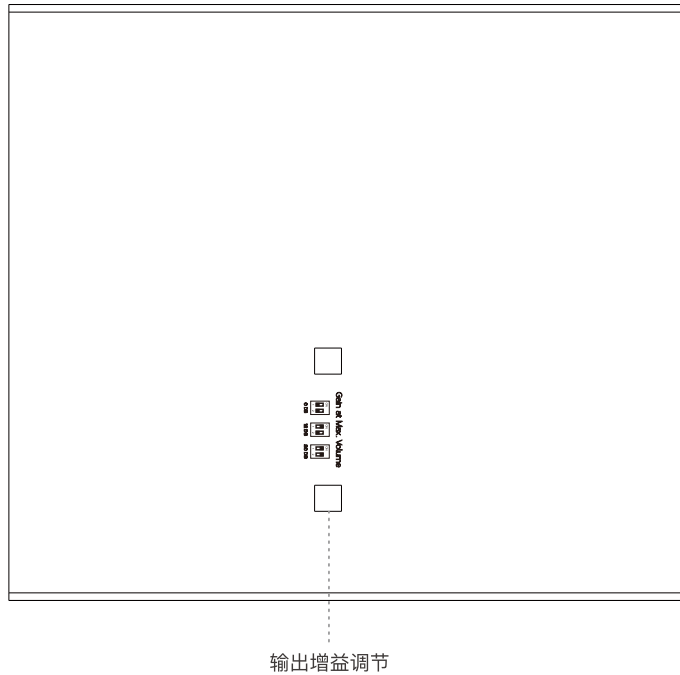
前面板视图 及各部名称



后面板视图 及各部名称



底面板视图 及各部名称



介绍

X7s 为aune的甲类平衡输出耳放，采用8只TO220三极管甲类偏置设计，内部四路耳放组成平衡和单端输出，同时具有前级功能，是一款音质醇厚大驱动力的小型甲类耳放。

参数

输入：	RCA输入 1组
输出：	RCA前级输出 1组
单端接口：	6.35mm输出耳机插孔
平衡接口：	四芯平衡输出插孔
频响：	20Hz~200kHz \pm 0.3dB
失真：	TYP THD+n <0.0002% @1kHz 300 Ω TYP THD+n <0.00018% @1kHz 300 Ω XLR
互调失真：	TYP CCIF IMDX <0.00045% TYP CCIF IMDX <0.00052% XLR
输出功率：	MAX OUTPUT POWER = 250mW @300 Ω MAX OUTPUT POWER = 1000mW @300 Ω XLR
尺寸：	145*171*45 (mm)
重量：	2kg
配件：	主机 x1 / 电源 x1 / 6.35mm转3.5mm转接头 x1

操作说明

耳机放大器功能

1、音源（例如 X1s、X5s、M2、S6 等设备）的线路输出接入 X7s 的线路输入“AUDIO IN”

2、接驳好对应耳机或耳塞

3、听歌前，音量调节到最小

注：底部增益开关控制 X7s 的输出增益，根据不同灵敏度耳机盒耳塞调节合适的增益

注：

禁止两个耳机孔同时使用



平衡母座插孔的定义

- 1 L+ 左声道+
- 2 L- 左声道-
- 3 R+ 右声道+
- 4 R- 右声道-



图1

操作说明

前级功能

- 1、音源（例如 X1s、X5s、M2、S6 等设备）的线路输出接入 X7s 的线路输入“AUDIO IN”
 - 2、X7s 的前级输出“AUDIO OUT”接驳到后级功放或有源音箱的音频输入接口
 - 3、听歌前，音量调节到最小
- 注：当作为前级使用建议底部增益开到 12dB 档位

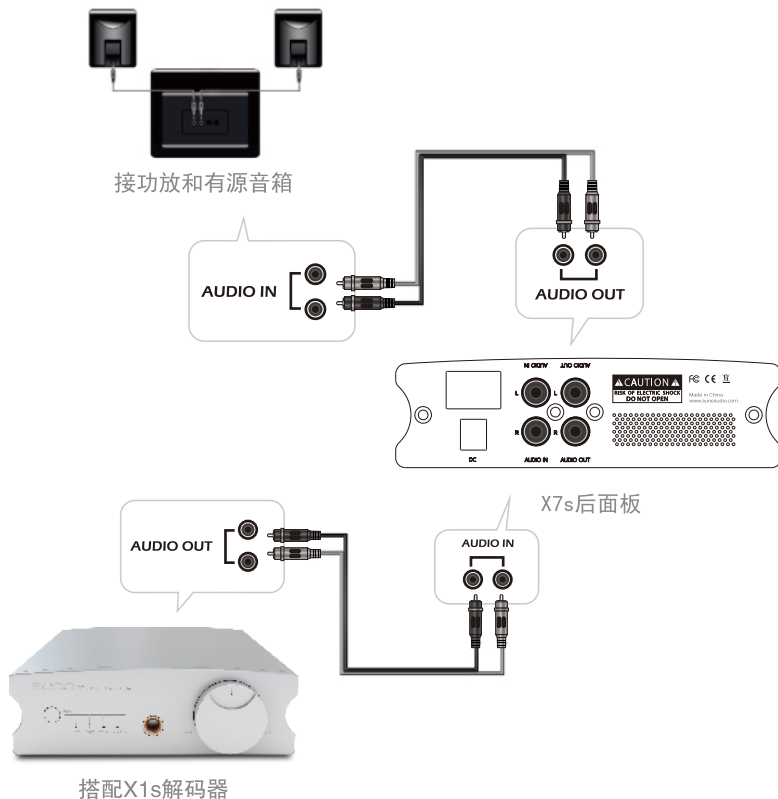


图2

操作说明

耳机输出增益调节

- 1、通过 X7s 底部耳放增益调节，可调节耳机输出增益，以适合不同灵敏耳机（如图3）
 - 2、当开关 1 和 2 都处于 OFF 状态时，增益为 0dB (1和2都关=0dB)
 - 3、当开关 1 处于 ON 状态，开关 2 处于 OFF 状态时，增益为 12dB (开1关2 =0dB)
 - 4、当开关 1 和 2 都处于 ON 状态时，增益为 20dB (1和2都开=20dB)
- 请选择与您耳机相匹配的增益使用，增益并非越大越好

Gain at Max. Volume

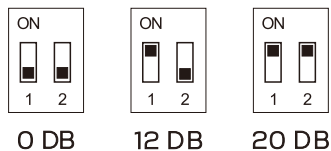
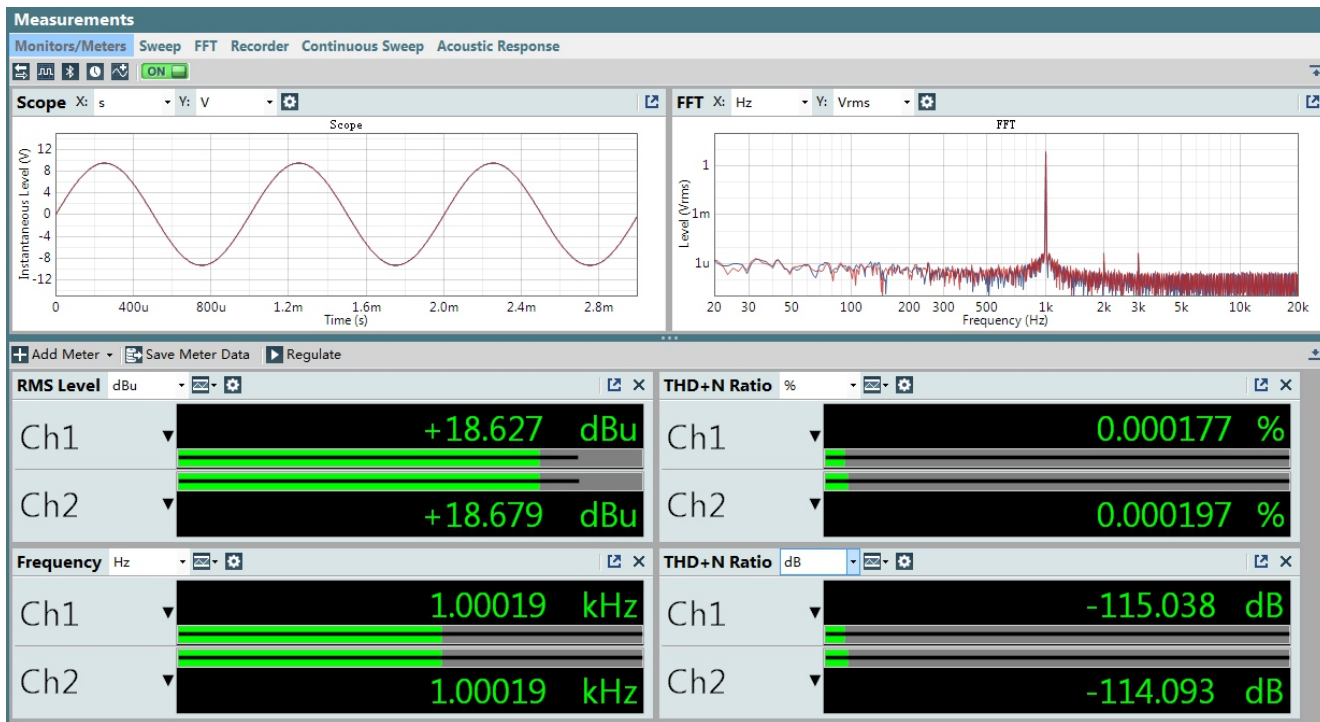


图3

测试曲线



警告提示

- 仅能使用建议的配件，以避免干扰、短路或电击。
- 请勿让器材暴露在湿气或雨水中。
- 请勿尝试拆除机身零件 外盖：专业修理工作仅能由获得授权的维修单位

法律提示

- 请遵守著作权法。未经授权自行转载或公开播放转录媒体，例如经由录影带、CD、他人发行或寄送的内容，皆有可能违反著作权法。
- 此点对于所有附赠的软体亦然。
- 其他在本说明里提到的商标、公司及产品名称皆为相关公司的商标及注册商标。



电子装置的 废弃处置

(适用于欧盟以及其他有独立回收系统的欧洲国家)

本装置包含电子组件，因此不得弃置于一般的家庭垃圾内！必须送到由地方政府设置的资源回收点所提供的免费的服务。

其他和本主题相同的资讯，可从当地政府、废弃物处理公司或在购买产品的商店处得知。



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Foreword

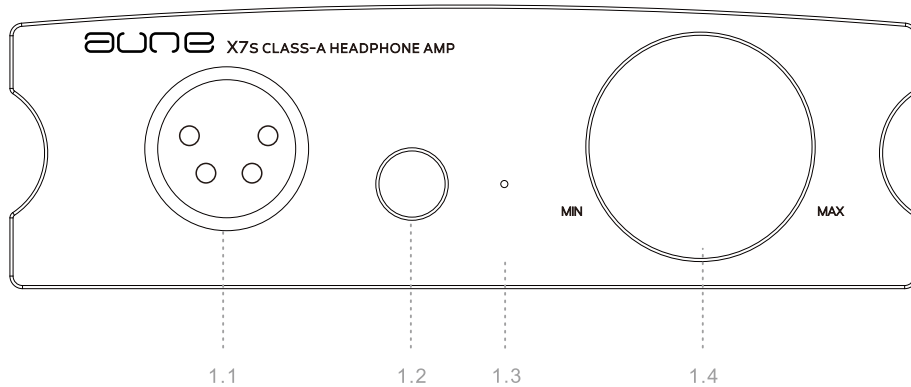
Dear Customers,

Thanks for purchasing the X7s Balance output class –A headphone amplifier of the aune X series. This is definitely a wise decision!

We sincerely hope the brand new X7s will bring you great listening pleasure.

To fully appreciate the capabilities of the X7s, please read the following manual carefully and completely before using the product.

View of front panel and name of each part



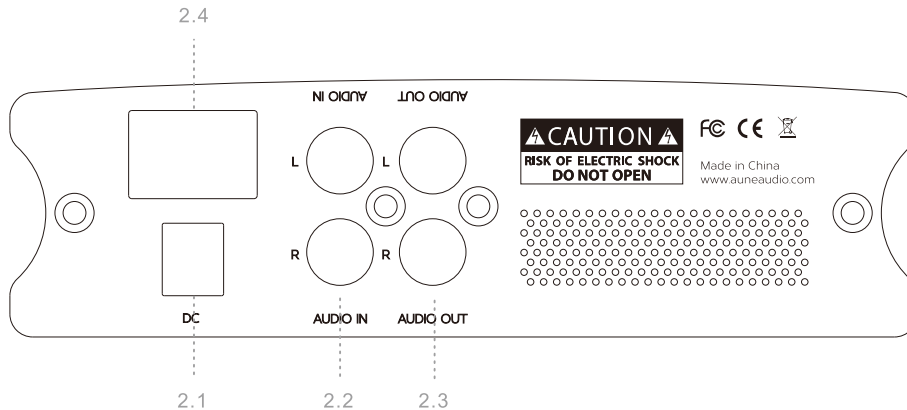
1.1 Balanced headphone output socket

1.2 Headphone port

1.3 Power indicator

1.4 Volume knob

View of rear panel and name of each part



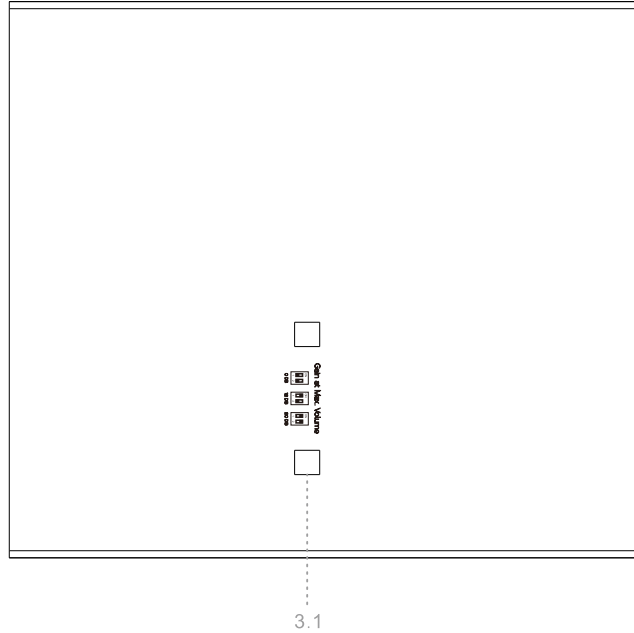
2.1 DC power in (15-19V/2A)

2.2 AUDIO IN

2.3 AUDIO OUT

2.4 Power switch

View of bottom panel and name of each part



3.1 Gain controls of the headphone output

Introduction

The X7s is the latest class A balanced output headphone amplifier of aune with eight T0220 transistors and the design of class A biasing. It has 4 headphone amplifiers within to build the balanced headphone socket and the single-ended headphone port. It can also be used as a pre-amplifier. The X7s is a mini desktop class A headphone amplifier with great power and rich sound.

Specifications

Input:RCA

Output:RCA (when used as a pre-amplifier)

Singled-ended port:6.5mm headphone port

Balanced output:4-pin balanced headphone output socket

Frequency response:20HZ-200KHZ $\pm 0.3\text{dB}$

Distortion:

TYP THD+n <0.0002% @1kHz 300 Ω

TYP THD+n <0.00018% @1kHz 300 Ω XLR

IMD:

TYP CCIF IMDX <0.00045%

TYP CCIF IMDX <0.00052% XLR

Output power:

MAX OPTPUT POWER=250MW @300RZ

MAX OPTPUT POWER=1000MW @300RZ XLR

Size of product: 145 x 45 x 171 (mm)

Net Weight: 2KG

Components: X7s x 1/Power adapter x 1/ 6.5mm to 3.5mm adapter x 1

OPERATING INSTRUCTION

AS A HEADPHONE AMPLIFIER

1. Connect "AUDIO OUT" of the sound source to "AUDIO IN" of the X7S (e.g. aune X1S, X5S, M2, S16)
2. Plug the headphone into the X7S
3. Adjust the volume

Notice: Please adjust the gain control on the bottom panel according to the headphone.

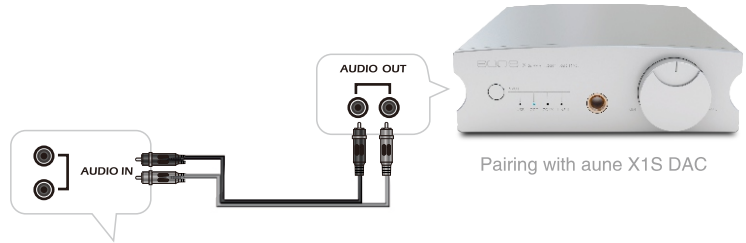
Caution!

It is prohibited to use the two headphone ports at the same time.



Balanced female socket definition

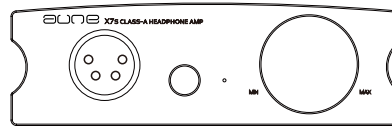
- 1 L+ Left channel+
- 2 L- Left channel-
- 3 R+ Right channel+
- 4 R- Right channel-



Pairing with aune X1S DAC



Bottom panel



Front panel



Balanced headphone output socket for your headphone



6.5mm headphone port for your headphone

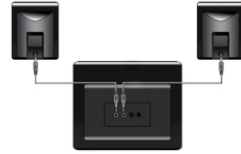
photo 1

OPERATING INSTRUCTION

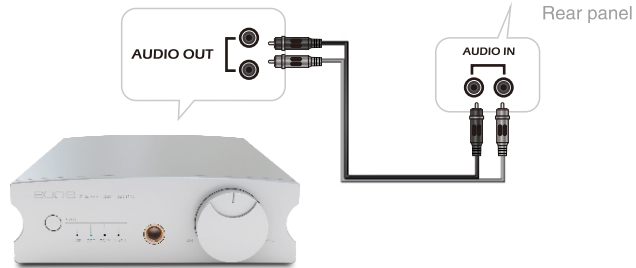
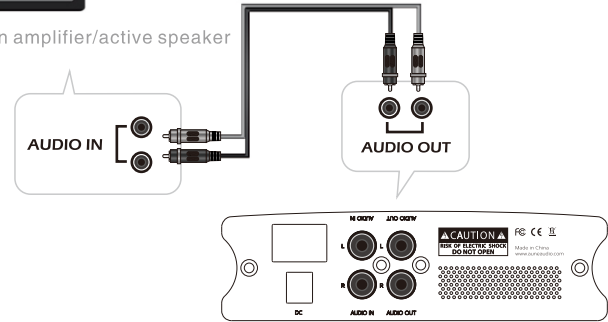
AS A PRE-AMPLIFIER

- 1、 Connect "AUDIO OUT" of the sound source to "AUDIO IN" of the X7s (e.g. aune X1S, X5S, M2, S16)
- 2、 Connect "AUDIO OUT" of X7S to "AUDIO IN" of an active speaker or an amplifier
- 3、 Adjust the volume

Notice: please adjust the gain to 12dB when using the X7s as a pre-amplifier.



Connecting to an amplifier/active speaker



Pairing with the aune X1s DAC

photo 2

OPERATING INSTRUCTION

HEADPHONE OUTPUT GAIN ADJUSTMENT

- 1、 The gain of headphone output is adjustable for different headphones (as shown in graphic 3).
- 2、 When switch 1 and switch 2 are both OFF, the gain is 0dB
- 3、 When switch 1 is ON and switch 2 is OFF, the gain is 12dB
- 4、 When switch 1 and 2 are both ON, the gain is 20dB

Gain at Max. Volume

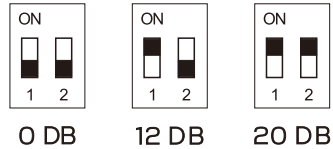
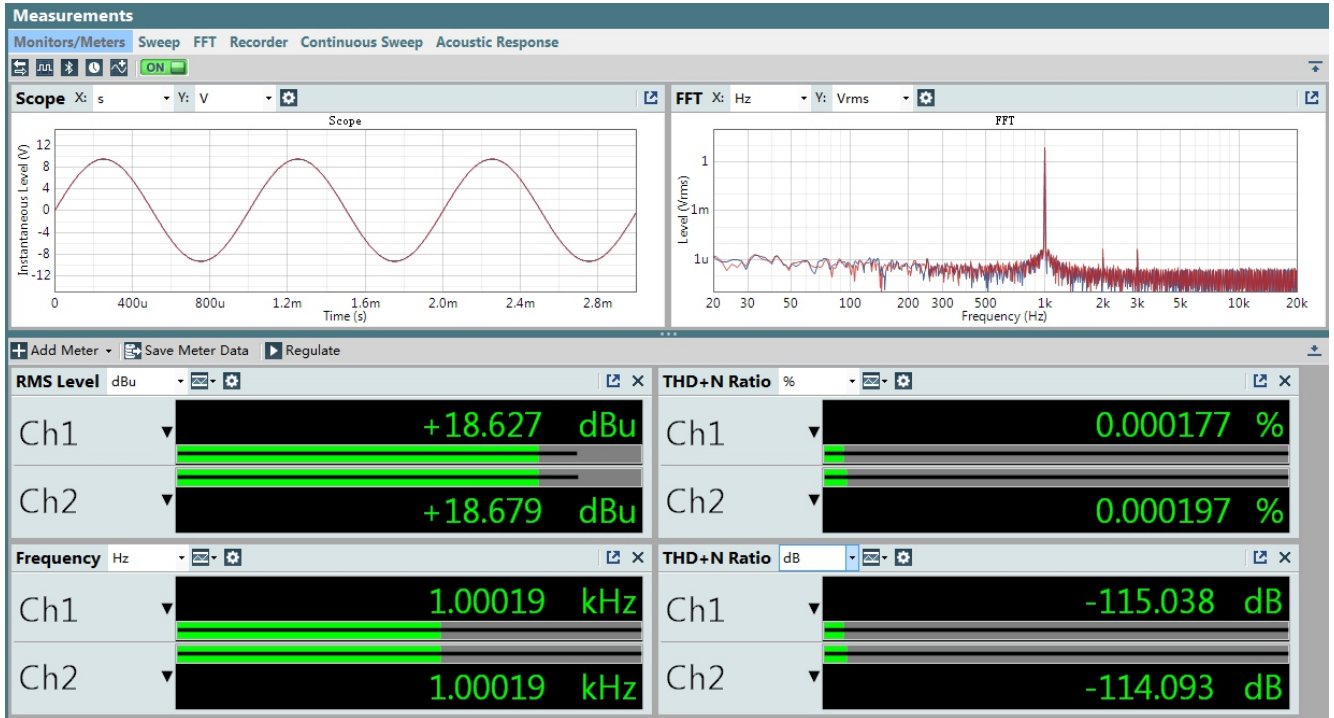


photo 3

TEST CURVE



WARNING MESSAGES

- Use exclusively recommended accessories to prevent faults, short circuits or electric shock.
- Do not expose the unit to moisture or rain.
- Do not attempt to remove parts of the body (covers); specialist repairs can be carried out only at authorized service centers

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(Applies within the eU, and for other european countries with separated waste collection systems)

This device contains electronic components and therefore may not be disposed of as general household waste. Instead it should be disposed of at a recycling collection point provided by the local authority. This costs you nothing. Your local authority or waste disposal authority, or the shop where you bought this device, can provide you with further information on this issue.



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