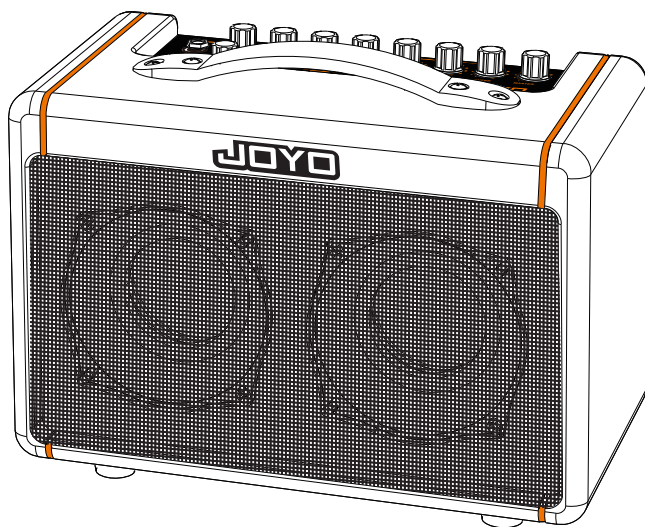


AC-20S

原声吉他放大器



用户使用说明书

JOYO

非常感谢您选择和购买JOYO AC-20S原声吉他放大器。在开始使用前,请您首先花些时间来阅读本说明书,以便您可以更好地使用和维护本产品。

注意事项 ▲

- 请阅读这里的说明。
- 请保存这些说明。
- 请注意所有的警告说明。
- 请按照说明操作。
- 不要在靠近水的地方使用这一设备。
- 请用干布清理本设备。
- 不要在靠近热源的地方使用本设备,如加热器、暖气机、电热炉、功放器等各种易发热设备。
- 不要损坏带有不同极性或接地功能的插头。有极性的插头带有两个大小不同的插片,有接地功能的插头有两个插针和接地插针,大的插针或第三个插针有接地功能,确保您的安全。如果随货供应的插头不能使用的话,请找电工更换老旧的插座。
- 电源线不要放在可能被踩到的地方,也要避免有尖角的地方,请特别保护插头,延长线和设备上的电源线。
- 请在使用完毕后拔下电源插头,以节约能源。
- 本设备一定要有接地保护。
- 如果电源插头或电源连接板有切断电源功能的话,它们一定要处在随时都能被拿到的地方。
- 请使用AC-20S随机附带的AC电源适配器!使用其他适配器可能造成适配器电压与AC-20S输入电压不兼容,导致损坏或其他意外情况发生。
- AC-20S随机附带之适配器已通过相关电磁兼容及安规测试,使用其他适配器我司将不保证其安规性能可以达到或符合您所在国家或地区的强制安全认证标准。
- 请只使用制造商规定的推车,架子,三角架,支架和桌子,也可用随货供应的器件。
如果您使用推车来搬移设备的话,请注意安全放置设备,以便避免倒下而造成的伤害。
- 有风暴雷雨时或长期不使用本设备的时候,请拔出电源插头。
- 所有维修工作,都必须由有资格的维修人员进行。设备受到损坏时(如:电源线或电源插头被损坏,水或液体流入设备内,设备受到雨淋或受到潮气侵入,设备不能正常运作,设备摔在地上后),必须进行维修。
- 注意!维修提示是给有资格的维修人员看的。为了避免触电的危险,请不要擅自进行维修。有资格的专业维修人员才能对设备进行维修。



电池充放电的使用与保养

本机开机状态下,若电源指示灯(POWER)开始闪烁,表示本机电池电量过低,您需要及时接入附带的适配器,对电池进行充电,这时充电指示灯将变成蓝色,表示正在充电中,充满电后充电指示灯将重新变成红色(关机充满电后,指示灯熄灭)。以下是一些安全使用本机的重要提示:

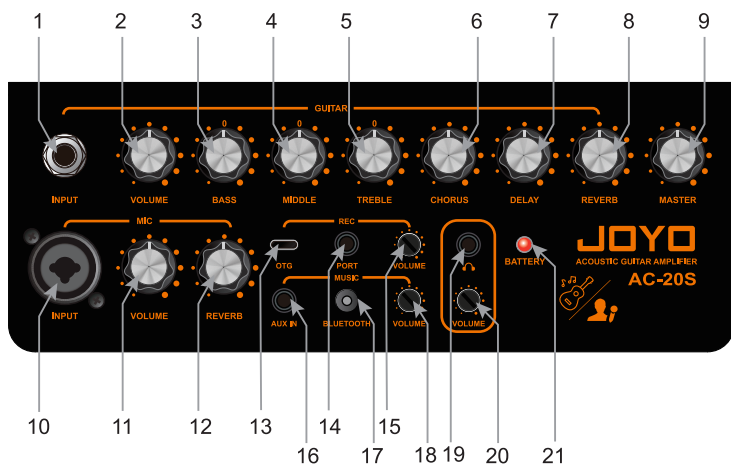
1. 如果设备长期闲置不用,应确保电池处于充满状态,每隔两个月复充一次电,否则电池将老化。
2. 本机内置有锂电池,请务必在有人监管的情况下对本机进行充电,若人员需要离开,请拔掉适配器,停止充电。
3. 请勿在夜间休息时为本机充电。
4. 请确保本产品使用或充电期间,远离纸张、木质桌椅、织物等易燃物品。
5. 请勿擅自拆开本机更换电池,不合格的电池可能会损伤本机或引发其他意外。
6. 请勿使用本机附带适配器以外的其他适配器,以免损坏本机或引发其他意外。

主要特点

- 专为原声吉他而设计
- 音乐功率20W
- 内置了一颗高性能的数字效果处理芯片，为您提供多达三种高品质DSP数字效果 (CHORUS、DELAY、REVERB)
- 三种数字效果，您可以同时使用
- 支持麦克风输入，电路针对人声特点专门优化，人声回放清晰有力
- 麦克风通道独立混响效果
- 内置蓝牙模块，方便连接手机等带有蓝牙功能的设备，来回放音乐或伴奏
- 音频接口功能，您可用内建的USB或模拟音频接口连接手机或电脑，进行音频流传输或直播
- AC-20S也如多数吉他音箱一样，配备了AUX IN接口，您可以通过此接口来输入CD或MP3音乐伴奏信号，来跟着伴奏即兴演奏或练习
- 内置可充电锂电池，满足户外演奏需求
- 满功率测试使用时长：约1.5小时

注：满功率测试指我司内部极限老化测试，全程满功率工作，实际使用时由于信号并非每时每刻都处于满功率状态，实际使用时长会远高于1.5小时

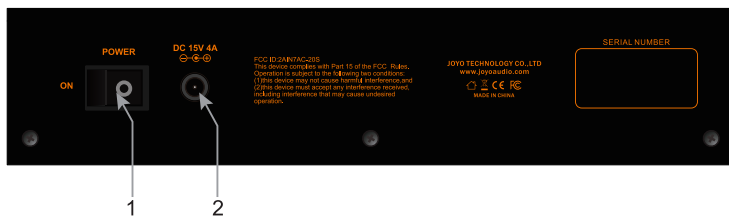
前面板



- 1.) 吉他输入接口 (INPUT)：6.35mm输入接口。
- 2.) 音量控制 (VOLUME)
- 3.) 低频 (BASS)
- 4.) 中频 (MIDDLE)
- 5.) 高频 (TREBLE)

- 6.) 合唱(CHORUS): 调节合唱效果深度。
- 7.) 延时(DELAY): 调节延时时间长短。
- 8.) 混响(REVERB): 调节吉他混响效果干湿比。
- 9.) 总音量旋钮(MASTER): 调节AC-20S的总输出音量大小。
- 10.) 话筒输入接口(MIC/INPUT)
- 11.) 话筒音量控制(MIC/VOLUME): 调节话筒通道的音量大小。
- 12.) 混响(REVERB): 调节话筒混响效果。
- 13.) USB接口(OTG): 用于连接手机或电脑等设备进行音频流传输或直播。**注意!**本USB接口不具备充电功能!
- 14.) 模拟音频接口(PORT): 您可用附带的3.5mm音频线来连接手机, 来进行音频播放、录制或直播。
- 15.) 录音音量(REC VOLUME): 用于调节输出到USB或PORT的音频信号音量。
- 16.) 辅助输入接口(AUX IN): 用于连接CD或MP3等音源。**注意:**本接口音源与蓝牙音源不能同时使用, 在本端口接入设备将导致蓝牙被关闭。
- 17.) 蓝牙开关(BLUETOOTH): 用于打开或关闭蓝牙功能。
开启蓝牙: 长按本开关打开或关闭蓝牙功能, 开启蓝牙后在蓝牙连接菜单中选择JOYO AC-20S建立连接, 连接成功后蓝牙指示灯保持常亮。
强制断开: 如果您的音箱被其他用户误连接, 您可以单击本开关, 来强行断开当前连接设备, 断开后蓝牙指示灯开始闪烁, 直到有新设备与之连接, 连接成功后, 蓝牙指示灯保持常亮。
- 18.) 音乐音量(MUSIC/VOLUME): 用于调节蓝牙或AUX IN的音量。
- 19.) 耳机接口: 用于连接不大于32欧阻抗的耳机。当耳机插入后, 本机喇叭将被静音。
注意:请使用阻抗不大于32欧姆且插头为标准3.5mm TRS插头的耳机, 超出此范围将导致本产品静音失效。
- 20.) 耳机音量旋钮
- 21.) 电源指示灯

后面板



- 1.) 电源开关
- 2.) DC电源输入接口: 连接本机附带的电源适配器为AC-20S供电。

电气参数

- AC适配器输入电压: AC100-240V 50-60Hz
- AC适配器输出电压: DC15V/4A
- 电池规格: 11.1V, 2.2Ah 锂电池组
- 吉他通道输入灵敏度: -16 dBV/1m欧姆
- 麦克风通道输入灵敏度: -33dBV/5.6k欧姆
- AUX IN输入灵敏度: 0dBV/4.7k欧姆
- 喇叭规格: 2x4寸, 4欧姆, 15瓦
- RMS功率: 20瓦 (10瓦+10瓦)
- 体积: 316*235*190毫米
- 重量: 5.4千克

配件清单

- AC适配器 x 1
- 适配器电源线 x 1
- USB Type-C 连接线 x 1 x 2米
- USB-C 转 Lightning 转接器 x 1
- TRRS连接线 x 1 x 5米
- 使用说明书 x 1

卓乐产品服务政策

一、在正常使用产品过程中，如果产品出现非人为损坏的性能故障，自购买之日起，消费者享有保修服务，保修期为12个月。

二、有下列情况之一者，消费者不能享受保修权益。

- 1、人为损坏；2、超过保修期；3、无保修卡及有效发票，但能够证明产品在保修期内的除外；4、保修卡与产品型号不符，或保修卡被涂改；5、未按说明书要求使用、维护、保养而造成产品损坏；6、未经卓乐公司授权，擅自拆卸、维修产品、或浸水、摔坏产品；7、其他不可抗力造成的损坏。

三、卓乐服务信息

消费者服务热线：0755-29765390

更多信息请访问：www.joyochina.cn



卓乐产品保修卡

产品型号		SN号码	
用户信息	姓名	购机日期	
	电话		
	地址		
	发票号码		
销售单位信息	名称（加盖公章）		
	地址		
	电话		

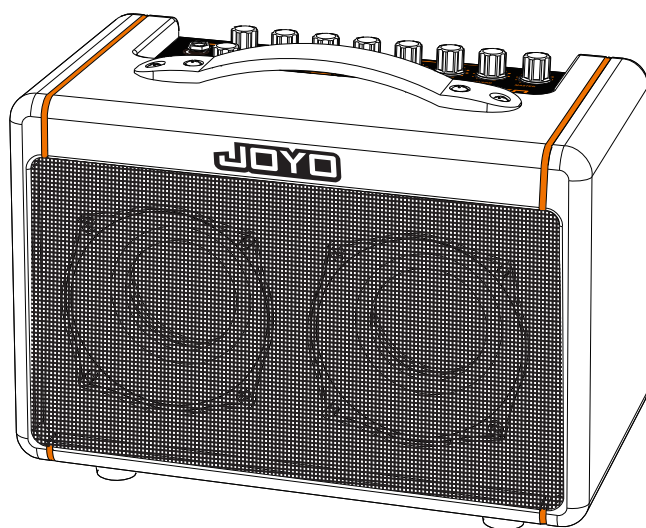
品牌: JOYO 名称: 音箱
执行标准: QB/T 4325-2012
制造商: 深圳市卓乐科技有限公司
地址: 广东省深圳市宝安28区新安三路
 陆氏工业大厦2楼
邮编: 518133
售后服务热线: 0755-29765390

产品合格证

检验结论 _____ 合格 _____
检验员号 _____ QC 01 _____
日 期 _____

AC-20S

Acoustic guitar amplifier



Owner's manual

JOYO

Thank you very much for choosing and purchasing the JOYO AC-20S acoustic guitar amplifier. Prior to use, please take some time to read this manual so that you can better use and maintain this product.

Important Notes

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this device near water.
- Clean only with a dry cloth.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the device.
- Please unplug this device after usage for energy conservation.
- Please use only the included AC power adapter. Other adapters may not be compatible with the AC-20S's input voltage and might cause damage or accidents.
- The included adapter has passed the electromagnetic compatibility and safety test.
We don't guarantee the safety performance when used with third party adapters.
- Never use with a cart, stand, tripod, bracket, or table except as specified by the manufacturer, or sold with the device. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this device during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the device has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the device, the device has been exposed to Rain or moisture, does not operate normally, or has been dropped.



Use & maintenance of battery charging & discharging

If AC-20S's power indicator(POWER) starts to flicker while it's on, it indicates very low battery of AC-20S, please charge the battery via the attached power adapter in time, now the charging indicator changes into blue, indicating that it is being charged, the charging indicator changes into red again once fully charged(the indicator extinguishes once fully charged while it's off). Here are some important notes of how to use AC-20S safely:

- 1.If your amplifier is unoccupied for a long period of time, the battery should be charged every two months to avoid battery aging.
- 2.It features built-in lithium battery, it should be charged with supervision, if the person needs to go somewhere else, remember to unplug the adapter and stop charging.
- 3.Don't charge it when you sleep during the night.
- 4.Please keep it away from inflammable substances such as paper, wooden desks and chairs, woven fabric, etc during use or charging.

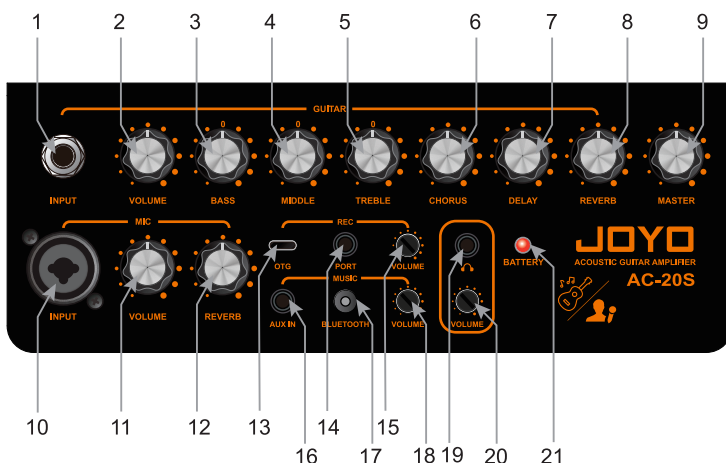
5. Do not open the case and change the battery for any reason, as unqualified battery may result in damage or risk to the unit.
6. Use the attached power adapter only, as other adapters may result in damage or risk to AC-20S.

Features

- Specially designed for acoustic guitars
- Rated power: 20Wrms
- A built-in high-performance DSP chip offers up to 3 DSP digital effects(CHORUS, DELAY & REVERB)
- 3 digital effects are available, you can use all simultaneously
- Supports MIC Input, the circuit has been optimized based on vocal characteristics, delivering clear & powerful vocal playback
- MIC Channel has independent REVERB
- Built-in Bluetooth module, easy to connect to devices with Bluetooth function such as smart phone, for playing back music or backing tracks
- Audio interface function, you can connect to the smart phone or PC via the built-in USB or analog audio streaming port, for transferring audio flow or live streaming
- Like most guitar amps, AC-20S has AUX IN Jack, you can play your CD or MP3 backing tracks signal via it, and practice or jam along to it
- Built-in rechargeable lithium battery is ideal for outdoor jam sessions
- Battery life(under full power test condition): about 1.5hrs

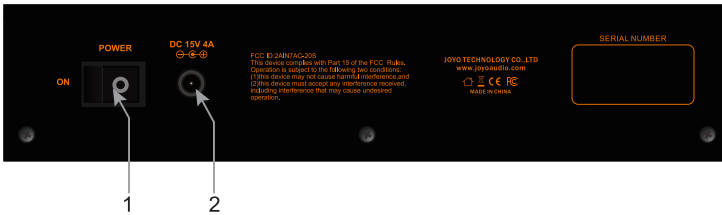
Note: Full power test means our company's internal extreme aging test, operating at full power through the entire process. In practice, when it's in use, as the signal is not at full power all the time, the actual battery life will be way greater than 1.5hrs.

Front panel



- 1.) **Guitar Input Jack(INPUT):** 6.35mm Input Jack.
- 2.) **Volume Control Knob(VOLUME)**
- 3.) **BASS Control Knob(BASS)**
- 4.) **MIDDLE Control Knob(MIDDLE)**
- 5.) **TREBLE Control Knob(TREBLE)**
- 6.) **CHORUS(CHORUS):** to adjust the depth of CHORUS effect.
- 7.) **DELAY(DELAY):** to adjust the time of DELAY effect.
- 8.) **REVERB(REVERB):** to adjust the mixing ratio of dry/wet signals for guitar REVERB effect.
- 9.) **MASTER VOLUME Knob(MASTER):** to adjust the Master Volume of AC-20S.
- 10.) **MIC INPUT JACK(MIC/INPUT)**
- 11.) **MIC Volume Control Knob(MIC/VOLUME):** to adjust the MIC Channel's Volume.
- 12.) **REVERB(REVERB):** to adjust MIC's REVERB.
- 13.) **USB Port(OTG):** audio stream or live stream via connecting to the smart phone or PC, etc.
Note: this USB port cannot be used for charging.
- 14.) **Analog audio streaming port(PORT):** You can play audio, record or live stream by connecting the attached 3.5mm audio cable to smart phone.
- 15.) **Recording Volume(REC VOLUME):** to adjust the audio signal Volume that outputs to USB or PORT.
- 16.) **AUX IN(AUX IN):** to connect to the audio source such as CD or MP3, etc. **Note:** AUX IN cannot be used with Bluetooth at the same time, if you connect device to this AUX IN port, the Bluetooth will be turned off.
- 17.) **Bluetooth Switch(BLUETOOTH):** to turn on or turn off the Bluetooth function.
 Turn on the Bluetooth: long press it to turn on or turn off the Bluetooth function, find JOYO AC-20S from the device list and pair when you turn on the Bluetooth, the Bluetooth indicator is on once they're paired successfully.
 Forced disconnection: If your amp is connected by other users by mistake, then you can click this switch once to disconnect the currently connected device forcedly, the Bluetooth indicator starts to flicker after the disconnection until a new device is connected to it, after successful connection, the Bluetooth indicator is on.
- 18.) **Music Volume(MUSIC/VOLUME):** to adjust Bluetooth's Volume or AUX IN's Volume.
- 19.) **Headphone Jack:** to connect to headphones with impedance $\leq 32\Omega$. This headphone will be muted when you plug in the headphone.
Note: Please connect to the standard 3.5mm TRS Jack Headphone with impedance $\leq 32\Omega$, because above this range will fail the MUTE function of AC-20S.
- 20.) **Headphone Volume Control Knob**
- 21.) **Power Indicator**

Rear panel



1.) Power Switch

2.) **DC Power Input Jack:** Please use the attached power adapter to supply power for AC-20S.

Specifications

- AC adapter input voltage: AC100-240V 50-60Hz
- AC adapter output voltage: DC15V/4A
- Battery specifications: 11.1V, 2.2Ah lithium battery pack
- Guitar Channel Input Sensitivity: -16 dBV/1mΩ
- Mic Channel Input Sensitivity: -33dBV/5.6kΩ
- AUX IN Sensitivity: 0dBV/4.7kΩ
- Speaker's specifications: 2×4-inch, 4Ω, 15W
- RMS power: 20W (10W+10W)
- Dimensions: 316*235*190mm
- Weight: 5.4kg

Package contents

- AC adapter×1
- Power cable×1
- USB Type-C Cable×1×2meters
- USB-C to Lightning Adapter×1
- TRRS cable×1×5 meters
- Owner's manual×1

JOYOTECHNOLOGY CO., LTD

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