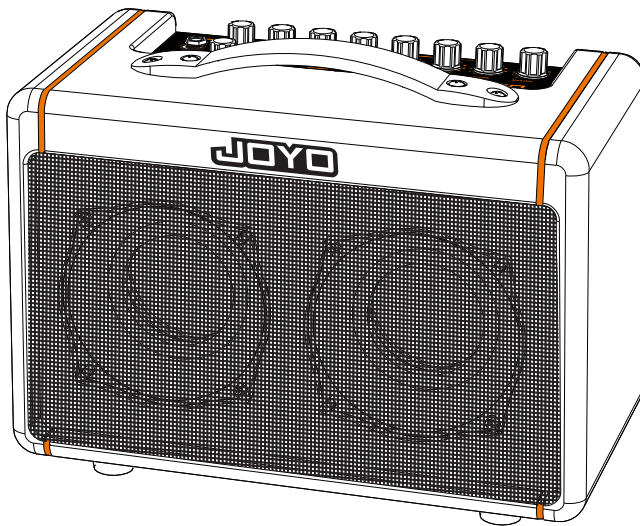


**AC-20S**

**Acoustic guitar amplifier**

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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.

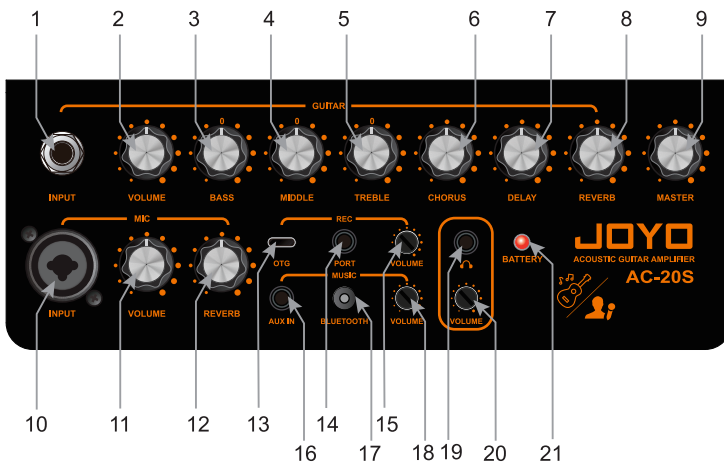
5. Do not open the case and change the battery for any reason, as unqualified battery may result in damage or risk to the unit.
6. Use the attached power adapter only, as other adapters may result in damage or risk to AC-20S.

## 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

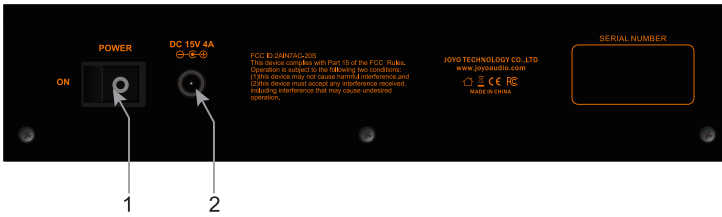
**Note:** Full power test means our company's internal extreme aging test, operating at full power through the entire process. In practice, when it's in use, as the signal is not at full power all the time, the actual battery life will be way greater than 1.5hrs.

## 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

**JOYO TECHNOLOGY CO., LTD**

Address: 2/F, Lushi Industry Building, 28th District, Bao'an, Shenzhen, 518101 China.  
www.joyoaudio.com Email:info@joyoaudio.com Tel: 0086-755-29765381