

PULSE+



MIXER AMPLIFIER

CVA60U and CVA120U

Please read these instructions carefully before use and retain for future reference.

IMPORTANT SAFETY INFORMATION

- When using electrical appliances basic safety precautions should always be followed.
- Check the condition of the mains lead before use.
- There are no user serviceable parts inside. Do not open the casing.
- Check that the voltage indicated on the rating plate corresponds with that of the local network before connecting to the mains power supply.
- Do NOT connect this device to the power source, before the system is fully and correctly wired.
- The device is not completely disconnected from power source when it is switched to "OFF".
- For safety, please disconnect the device from the mains power if it is not in use or any connections to the speaker outputs are required or before any component is removed from or re-installed to the device or before any electrical connector to the device is disconnected or reconnected.
- Do not expose the unit to rain or moisture or liquids of any sort, as doing so may result in damage.
- Do not install near heat sources such as radiators, ovens, or other devices that produce heat.
- Install in a well ventilated space to allow good heat dissipation.
- Never block the cooling vents.
- Do not operate in locations where excessive vibration or high dust levels are prevalent.
- If the unit is not in use for a long period of time, switch the power off and disconnect from the power supply.
- Before cleaning, switch off the power and disconnect from the power supply.

WHATs IN THE BOX

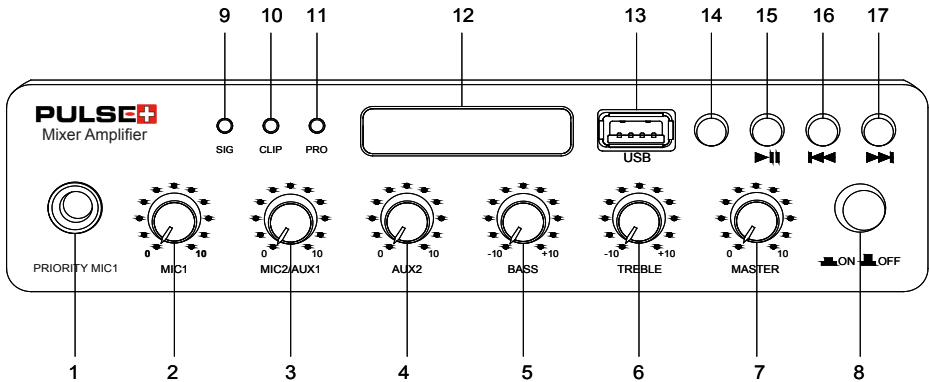
- Amplifier Unit 1 item
- User Manual 1 copy
- 1.8m Power Cord 1 item
- Remote Controller 1 item
- 2P Green Plug 5 items
- 1500MM Audio Cable 1 item

FEATURES

- Three working modes: Bluetooth, USB, and AUX.
- Wireless play function.
- Signal level indicator, clipping indicator and protection indicator.
- 100V RMS priority LINE IN, normal signal priority LINE IN, and microphone priority LINE IN.
- 2 MIC IN, 1 channel with phantom power, and 1 channel with priority.
- 2 LINE IN, 1 channel with RCA, and 1 channel with XLR.
- 2 outputs, 1 channel 100V constant voltage amplifier output, and 1 channel 1V RMS AUX OUT.
- Three level priority, PRIORITY IN on the rear panel with the highest priority, PRIORITY MIC1 with the second level priority, others with the lowest priority.
- Overload, short circuit, and temperature protection function, and with temperature controlled fan.
- Master volume control; independent volume control for MIC and LINE
- Treble and bass tone controls.
- Remote control operation.

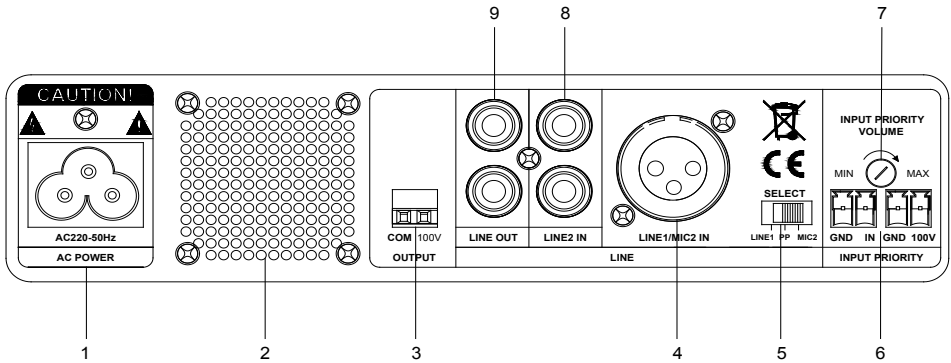
PRODUCT OVERVIEW

Front Panel



1. MIC1 IN with the second priority
2. MIC1 Volume - Adjust MIC1 only volume. Turn clockwise to turn up the volume, and counter clockwise to turn down the volume.
3. MIC2/AUX1 Volume - Adjust MIC2/AUX1 only volume. Turn clockwise to turn up the volume, and counter clockwise to turn down the volume.
4. AUX2 Volume - Adjust AUX2 only volume. Turn clockwise to turn up the volume, and counter clockwise to turn down the volume.
5. Bass Control - Take the central position as the reference. Turn clockwise to turn up the bass, and counter clockwise to turn down the bass.
6. Treble Control - Take the central position as the reference. Turn clockwise to turn up the treble, and counter clockwise to turn down the treble.
7. Master Volume - Adjust all channel signal levels. Turn clockwise to turn up the volume, and counter clockwise to turn down the volume.
8. Power Switch.
9. Signal Level Indicator (SIG).
10. Clipping Indicator (CLIP).
11. Protection Indicator (PRO).
12. Digital Display Screen - Display the current mode status.
13. USB Port - Insert the USB flash disk here to provide programs for the built-in MP3.
14. Mode Switching Button - Can switch to BLUE mode, USB mode and AUX mode.
15. Play/Pause Button - In USB mode and Bluetooth mode, it is a Play/Pause button; while in AUX mode, it is a MUTE button.
16. Previous Button - Press the button to switch to the "previous" track, and long press the button to turn down the volume.
17. Next Button - Press the button to switch to the "next" track, and long press the button to turn down the volume.

Rear Panel



1. AC220V POWER IN - Connect the working power source. When connecting, first connect the plug on the machine, and then connect it to the power source.
2. Fan Cooling Window
3. Speaker OUT
4. LINE1 /MIC2 IN - Can connect MIC and other external audio sources.
5. LINE1/PP/MIC2 - Audio source selection. Slide left or right to select AUX1 or MIC2 or MIC2(PP) with phantom power.
Note: In the PP position, only microphones driven by phantom power can be connected, and no other signal sources can be connected.
6. Two inputs with the highest priority
7. Volume control for two inputs with the highest priority
8. AUX2 IN
9. 1VRMS AUX OUT

OPERATION

Bluetooth Mode

- Press the “MODE” button on the panel of the machine to enter the Bluetooth pairing mode, the digital screen will display BL. and the “.” will flash until a successful pairing is obtained.
- Turn on the Bluetooth pairing of the device to be connected and search for the mixer amp device name. If required use passcode “0000” to complete.
- The audio source files in the connected device can be played after the pairing is successful.

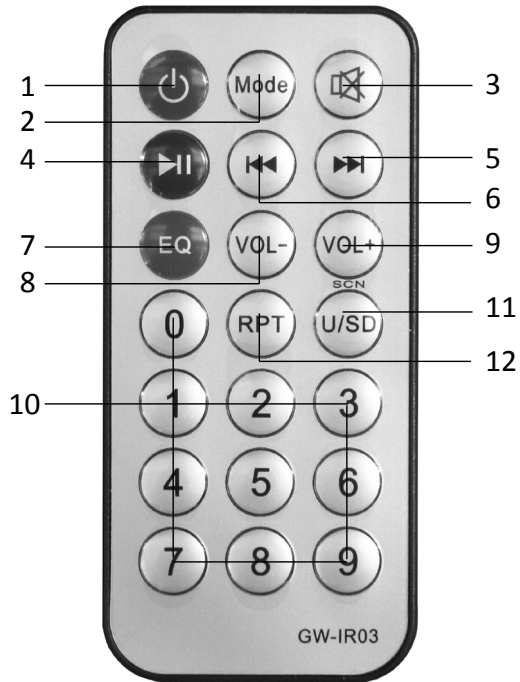
USB Mode

- When the USB flash memory stick is inserted, it will automatically switch to the USB mode (plug and play), and the amplifier will play any tracks in MP3 format.

AUX Mode

- The auxiliary in mode is the default mode of this system. When the USB flash memory is not inserted, and the Bluetooth is not connected.
- The digital screen displays AUX after power-on.

REMOTE CONTROL OPERATION



1. Power on button.
2. Mode button - switch between input sources.
3. Mute button - press this button once, and the content displayed on the LED will flash while muted and press again to cancel the mute.
4. MP3 play/pause button, tuner memory channel call button: press this button repeatedly to select the memorized channel progressively in order.
5. MP3 previous song selection button, radio backward channel selection button.
6. MP3 next song selection button, radio forward channel selection button.
7. EQ: Under MP3 output mode, with the Classical mode, Jazz mode, Rock mode, Bass mode and Pop mode. This button is also used for calling memorized channel by tuner.
8. VOL- MP3/TUNER volume decrease button.
9. VOL+ MP3/TUNER volume increase button.
10. 0-9 numerical keys: They are used to input the serial number of MP3 chapter and memorizing number of tuner channel.
11. U/SD: It is used by tuner to search the memorized channel automatically.
12. RPT: Selection of MP3 repeat mode including repeat one and repeat all.

SPECIFICATION

Model		CVA120U	CVA60U
Rated Output Power		120W (Note: Please use a constant voltage speaker within the power range)	60W (Note: Please use a constant voltage speaker within the power range)
Rated Output Voltage		100V	
Sensitivity	MIC1 IN	0.005 ($\pm 1\text{mV}$)	
	MIC2 IN	0.006 ($\pm 1\text{mV}$)	
	LINE1 IN, LINE2 IN PRIORITY IN	0.3 ($\pm 20\text{mV}$) VRMS	
	PRIORITY IN-100V	100 VRMS	
SNR	MIC1, MIC2 LINE1 IN	$\geq 74\text{dB}$ (MAX.)	
	LINE2 IN, INPUT PRIORITY	$\geq 80\text{dB}$ (MAX.)	
Frequency Range		80Hz-15kHz ($\pm 3\text{dB}$)	
THD		$\leq 0.5\%$ (1K under normal working condition)	
Voltage		AC220V/50Hz	
Tone	Bass	$\pm 10\text{dB}$ (100Hz)	
	Treble	$\pm 10\text{dB}$ (10kHz)	
Rated Power Consumption		150W	75W
Dimensions (L×W×H)		200×190×44mm	
Net Weight		1.5kg	
Gross Weight		2kg	

CLEANING AND MAINTENANCE

- When cleaning, use a soft dry cloth to remove any dust that may have accumulated.
- Use a damp cloth and a small amount of liquid detergent if necessary.
- Do not use any chemicals, abrasives or solvents that could damage the unit.



INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT.

When this product has reached the end of its life it must be treated as Waste Electrical & Electronic Equipment (WEEE). Any WEEE marked products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used. Contact your local authority for details of recycling schemes in your area.



Man Rev 1.0

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