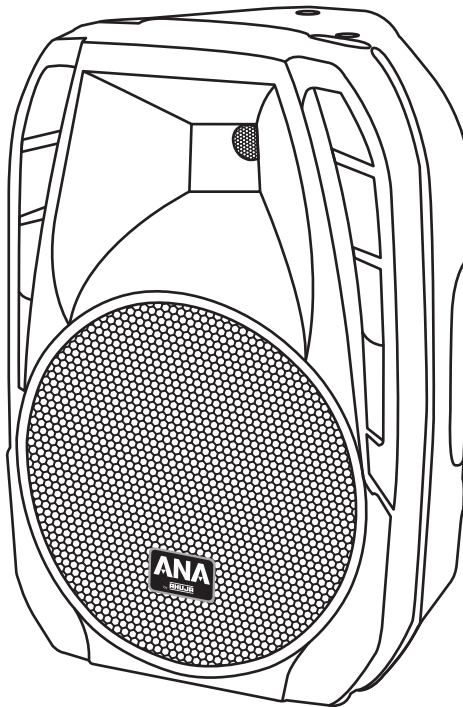


**AHUJA**<sup>®</sup>**Active Loudspeaker**

175W RMS Bi-Amp

# XPA-1520DP



- ◆ Thank you for purchasing the AHUJA XPA-1520DP Bi-Amp Active Loudspeaker.
- ◆ Please read this manual thoroughly before making connections and turning on the power. Following the instructions in this manual will enable you to obtain optimum performance from your new AHUJA Bi-Amp Active Loudspeaker.
- ◆ Please retain this manual for future reference.

## • Safety Instructions

**Read the Instructions:** Please read all the instructions in this section carefully before installation or use of the product. All the safety instructions must be followed.

**Retain the Instructions:** Please retain this Instruction Manual for future reference.



This symbol, wherever it appears, alerts you to the presence of uninsulated hazardous voltage that may be sufficient to constitute a risk of electric shock. External wiring to any terminal marked with this symbol must be done by a trained and instructed person only.



This symbol, wherever it appears adjacent to a component, alerts you that the concerned component can only be replaced by another of the exact same specifications.

### WARNING

- To reduce the risk of electric shock, do not remove the top cover. No user serviceable parts inside. Refer all servicing to qualified personnel only.
- Before replacing any fuse, make sure the set is switched off and disconnected from the AC mains or any other power source. Replace a fuse only with another of exactly same specification.

### CAUTIONS

**Water & Moisture:** To reduce the risk of fire or electrical shock, do not expose this set to rain or moisture. Do not keep this set near water or in a wet location. Do not insert or remove the AC mains plug with wet hands.

**Power Source:** The voltage & frequency of the AC mains supply to which this set can be connected, is marked on the rear panel of the set. Do not connect this set to any power source other than those specified on the rear panel.

**Power Cord Protection:** Do not cut, kink, damage or modify the AC power cord supplied with this set. Keep the AC power cord away from heaters and harmful chemicals. Do not keep any heavy object on the power cord.

**Operation on Generator:** When operating this set on a generator, make sure the set is switched off till the generator voltage has stabilized.

**Stability:** This set must be kept in a stable and flat position, and never in a tilted position. This set can also be mounted on a stand. Before using any stand, check its strength and stability.

**Cleaning:** Disconnect this equipment from the AC mains before cleaning. Clean with a damp cloth, but do not allow any liquid to enter the set. Do not clean with liquids or aerosols.

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## • Features/General Description of Product

- XPA-1520DP is a BI-Amp Active loudspeaker.
- LF: 125W RMS + HF: 50W RMS Built-in Class-D amplifiers.
- Plastic moulded Cabinet designed for use in a wide variety of PA and Musical instruments application.
- Two Wired Mic inputs, Two Wireless Mics & One Aux input.
- Built-in 25.4 cm (10") 4  $\Omega$  speaker & HF Tweeter.
- Mic-1 and Wirelesss Mics have selectable priority over all other inputs.
- Built-in MP3 Player with Bluetooth, Recorder and remote control.
- Built-in Digital Echo.
- Active Bass & Treble controls for desired tonal shaping.
- LED indications for ON, FAULT CLIP level.
- Built-in TWS & Sing Along feature.

## • Rear Panel Controls Description

### 1. MP3 Playback Facility

- a. **USB Connector:** Insert the USB drive here.
- b. **MMC/TF Card Connector:** Insert the MMC/TF Card here.
- c. **REC:** Press once to start recording. Short press to Pause recording and short press again to resume recording. Long press to playback recorded file.
- d. **TWS/Sing Along:** Short press to enable the TWS mode for the amplifier set. Long press when playing through Bluetooth mode will enable 'Sing Along' function.
- e. **Display:** Will display the volume level, track being played & other functions.
- f. **▶▶ VOL+:** Short press to select next track. Long press to increase the volume level.
- g. **IR Sensor:** To operate the remote functions, point the remote control towards the IR Sensor.
- h. **MODE:** Press this button to switch between Bluetooth, USB, and SD modes.
- i. **PLAY:** Press to play the track Press again to pause when a track is being played.
- j. **◀◀ VOL-:** Short press this switch to select prev track. Long press to decrease the volume level.

2. **Bass Control:** To increase or decrease the level of low frequency content in music.

3. **USB Control:** To adjust the signal level of the MP3 player input.

4. **Treble Control:** To increase or decrease the level of high frequency content in the music.

5. **Wireless Mic-A Control:** To adjust the level of wireless MIC-A when RF LED is glowing.

6. **Wireless Mic-B Control:** To adjust the level of wireless Mic-B when RF LED is glowing.

7. **MIC-1 Volume Control:** Used for adjusting signal level of MIC-1 input.

8. **Priority Switch:** Pressing this switch will give priority to MIC1 and Wireless Mics over all other inputs.

9. **MIC-2/AUX Volume Control:** Used for adjusting signal level of MIC-2/AUX input.

10. **MIC-1 Input Jack:** Used for connecting a wired mic.

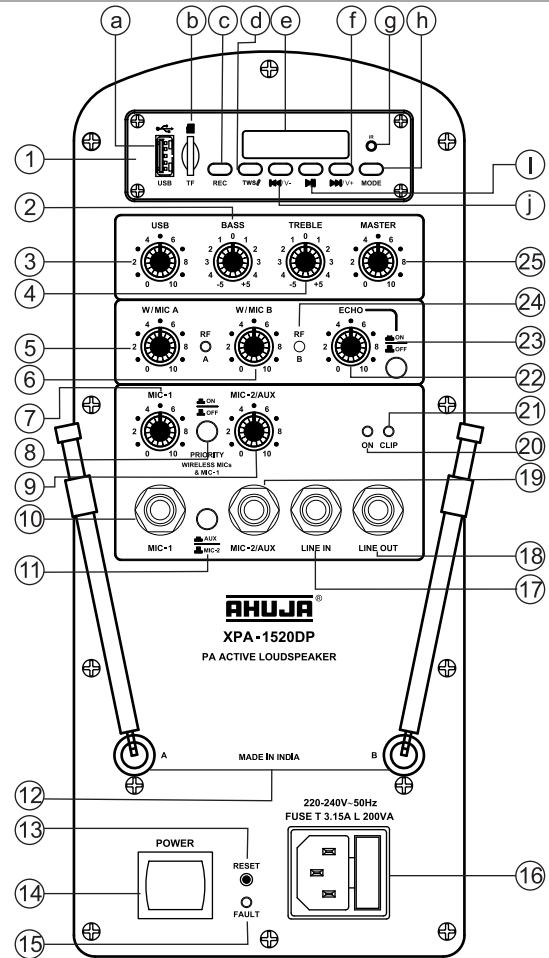
11. **MIC-2/AUX Selector switch:** Press the switch to change from MIC-2 to AUX input source.

12. **Antennas:** For Wireless Mics, extend the antennas for best performance while in use.

13. **Reset Switch:** Push and release this switch to reset the amplifier in case of Fault condition.

14. **Power Switch:** Used to SWITCH ON or SWITCH OFF AC mains supply to the amplifier.

15. **Fault LED:** This RED LED glows when a fault condition occurs in the amplifier.



16. **Mains Socket with Built-in 3.15 Amp Fuse:** Connect the detachable AC lead, as supplied along with the amplifier.

17. **LINE IN:** Can be used to provide a line level signal input to the amplifier.

18. **Line Output:** Provides a line level mixed output signal of all inputs.

19. **MIC-2/AUX Input Jack:** Used for a connecting a Mic or an Aux input.

20. **ON LED:** This RED LED glows when the power is switched ON in the amplifier.

21. **CLIP LED:** This AMBER glows when the output is nearing the clipping level. The glow of the LED alerts the user that the signal level is close to clipping level. User may adjust controls accordingly.

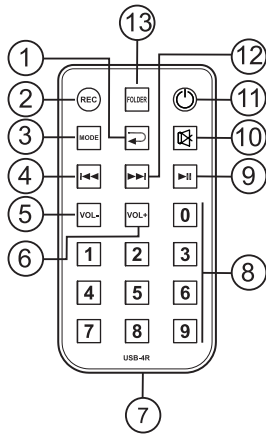
22. **ECHO:** To adjust the level of delay and Echo in the programme.

23. **ECHO ON/OFF:** Press this switch to switch ON the echo function. Press again to switch OFF the echo function.

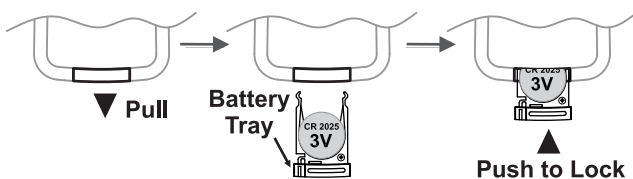
24. **RF LEDs:** These RED LEDs glow when the wireless transmitters are switched ON.

25. **Master Control:** This control adjusts the level of mixed signal of all inputs.

## • MP3 Playback Facility: Controls & Features



1. **↻ Cycle Mode:** Repetitive pressing of this button provides various options like REPEAT ONE, REPEAT FOLDER, RANDOM, and REPEAT ALL.
2. **REC:** Press REC button when USB/SD Card is connected, then module will start recording in USB/SD Card. During recording short press the REC button, it will Pause the recording. Press again to resume the recording. Long press of REC button or short press of Play button during recording will immediately start playing the latest recorded file.  
**NOTE:** REC Function is available for MIC-1, MIC-2 / AUX and wireless mic only. When using a blank USB drive, long press REC button to access the recording folder and playback recorded file.
3. **Mode:** Press this button to switch between Bluetooth, USB, and SD modes.
4. **◀◀ Prev:** During playback short pressing the Prev. key will go to the prev. file/track. Long press will fast backward the track. In main menu, short pressing previous key will go to the previous option.
5. **VOL- :** To decrease volume level of MP3 player.
6. **VOL+ :** To increase volume level of MP3 player.
7. **Battery Replacement:** Pull out the battery tray and replace the battery with positive electrode facing upwards as shown in fig. below. Push the battery compartment back to the close position. Use CR2025 or equivalent lithium coin cell.



8. Number key 0 to 9. To choose the track number to be played.
9. **▶|| PLAY/PAUSE:** Press PLAY/ PAUSE once to pause if music is already playing. Press PLAY/PAUSE again to resume playing. During recording, short press of PLAY/PAUSE will immediately start playing the recently recorded file.
10. **⊘ MUTE:** Press once to mute the audio, press again to resume the audio.
11. **Power:** Press once to switch off MP3 player, press again to switch ON.
12. **▶▶ Next:** During playback, short press the Next key to go to the next file or track and long press to fast forward the track. In main menu, short press Next key to go to the next option in the main menu.
13. **Folder:** Press the FOLDER key to switch between folders stored in USB or TF card. Long press FOLDER key to playback recorded file if any.  
**NOTE:** This key function will be operational only when more than one folder has been stored in the USB or TF card.

## • Guideline for using Bluetooth, TWS and Sing Along

### BLUETOOTH

- Switch ON the XPA-1520DP. The MP3 module display shows “On”
- Press MODE switch of amplifier module to select bluetooth option. MP3 module display show the word “bt”.
- Select the bluetooth option in Mobile phone & follow the instruction as appearing on Mobile phone for paring the new device.
- After a search, a new device by name “AHUJA” appears on the Mobile phone screen.
- Select the new device “AHUJA” and confirm for pairing.
- When pairing is completed, the display shows “-bt-”. Select the track to be played and set the volume level of mobile & Amplifier to desired levels.

### TWS

- Two nos of XPA-1520DP can be used for True Wireless Stereo function.
- Power ON only one unit of XPA-1520DP to make it as MASTER unit.
- Perform BT paring with this MASTER unit.
- Now power ON the second unit of XPA-1520DP, which becomes SLAVE unit and select BT Mode.
- Short press TWS button of MASTER unit and ‘t-SC’ is displayed on the screen.
- After few seconds, TWS function is activated which is confirmed by the display ‘-bt1’ in MASTER unit and ‘-bt2’ in SLAVE unit.
- When music is played through the paired source device then both units of XPA-1520DP can be placed on left and right side for true wireless playback of the music.

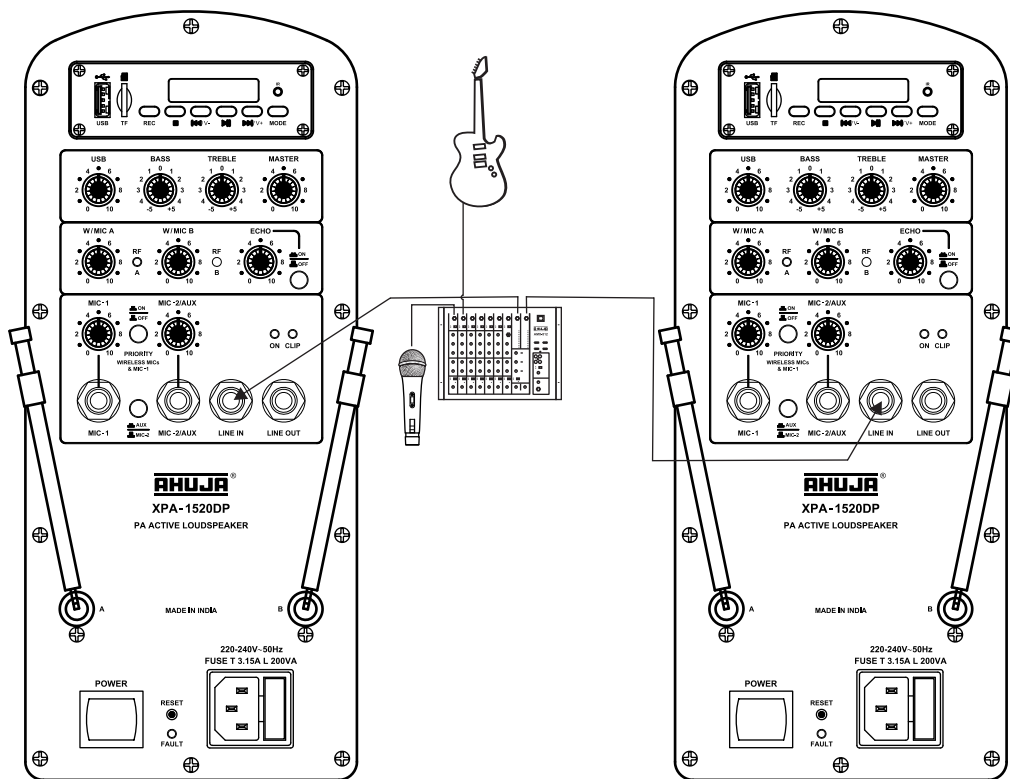
### SING ALONG

- In this feature only the vocals are attenuated so that the user can sing along with the original music
- To activate Sing Along in XPA-1520DP, long press TWS button and ‘ON’ is displayed on the screen. To deactivate, long press TWS button and ‘OFF’ in displayed on the screen.
- In TWS setup, Sing Along can be activated by long press of TWS button in the MASTER unit.

**Note:** The level of attenuation will vary according to the music/vocal contents of the track being played.

## • Typical Applications

1. Connect the desired Mic, musical instrument etc to the respective mixer input.
2. The Left & Right output of mixer can be fed into Line input of XPA-1520DP.
3. Adjust the mixer gain & channel controls as desired.
4. Once the setup is ready, open the master control of both XPA-1520DP to desired level.
5. This way XPA-1520DP can be used in L & R setup using an audio mixer.



Left XPA-1520DP

Right XPA-1520DP

## • Active Loudspeaker

<b>Specifications</b>	
<b>Model</b>	<b>XPA-1520</b>
<b>Speaker</b>	1 x 10" LF Speaker, ø2.0" Voice Coil 1 x HF Compression Driver, ø1.0" Voice Coil
<b>Power Output</b>	200W RMS Max, 175W RMS at 1% THD
<b>Power Output (Bi-amp)</b>	LF: 125W RMS at 1% THD Class D, HF: 50W RMS at 1% THD Class D
<b>Output Regulation</b>	Better than 0.5dB
<b>Input Channels</b>	2 x Mic 5mV/4.7kΩ, 1 x Aux 200 mV/47kΩ, 2 x Wireless MIC, 1 x Line Input 1.2V
<b>Frequency Response</b>	50-20,000Hz ±3dB
<b>Crossover Frequency</b>	2.5kHz, Filter Slope 24dB per octave
<b>S/N Ratio</b>	60dB
<b>Tone Controls</b>	Bass: ±5dB at 100Hz, Treble: ±5dB at 10kHz
<b>Digital Player</b>	MP3 player with USB, SD, MMC card reader, Recording function and Bluetooth.
<b>Wireless Receiving Mode</b>	Quartz Controlled Fixed Frequency
<b>Wireless Range</b>	Over 20m in Free Space (Line of Sight)
<b>Output</b>	Line Output 775mV
<b>Protections</b>	AC: Fuse 1x3.15A (T 3.15A L)
<b>Power Supply</b>	AC: 220-240V 50/60Hz
<b>AC Power Consumption</b>	200VA
<b>Dimensions</b>	W325 x H485 x D255 mm
<b>Weight</b>	11.30kg Approx.

<b>Transmitter</b>	<b>Handheld Transmitter</b>
<b>RF Output Power</b>	15mW (Max.)
<b>Frequency Response</b>	50-15,000Hz
<b>Power Supply</b>	3V (2 × 1.5V AA Pencil Cells)
<b>Current Consumption</b>	110mA at 3V DC
<b>Controls</b>	POWER ON/OFF switch
<b>Indication</b>	LED for indicating microphone is ON
<b>Dimensions</b>	Ø55 (L 248) mm
<b>Weight</b>	180g (w/o battery) Approx.

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