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› [Ahuja](#) /

› [Ahuja UB-30 25W PA Amplifier User Manual](#)

Ahuja UB-30

Ahuja UB-30 25W PA Amplifier User Manual

Model: UB-30

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your Ahuja UB-30 25W PA Amplifier. Please read this manual thoroughly before using the amplifier and retain it for future reference.

The Ahuja UB-30 is a compact 25W Public Address (PA) amplifier designed for various audio applications, offering versatile input and output options.

IMPORTANT SAFETY INSTRUCTIONS

- **Power Source:** Connect the amplifier only to the specified AC mains voltage (220-240V, 50/60Hz) or a 12V DC car battery.
- **Grounding:** Ensure the equipment is properly earthed. Disconnect from mains before removing any covers.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Moisture:** Do not expose the amplifier to rain or moisture to prevent fire or electric shock.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to service this product yourself.
- **Placement:** Place the amplifier on a stable, flat surface. Avoid placing it near heat sources or in direct sunlight.

PRODUCT OVERVIEW

The Ahuja UB-30 amplifier features multiple input channels and various speaker output options for flexible connectivity.



Figure 1: Front view of the Ahuja UB-30 amplifier, showing the control panel and power cable.



Figure 2: Rear view of the Ahuja UB-30 amplifier, displaying the power input, fuse, and speaker output terminals.

CONTROLS AND CONNECTIONS

Front Panel Controls



Figure 3: Detailed view of the amplifier's front panel, highlighting input jacks and control knobs.

- **MIC-1 Input:** 6.3mm jack for microphone input.
- **MIC-1 Volume Control:** Adjusts the volume level for MIC-1.
- **MIC-2/AUX Input:** 6.3mm jack for microphone or auxiliary input.
- **MIC-2/AUX Volume Control:** Adjusts the volume level for MIC-2 or AUX input.
- **TONE Control:** Adjusts the tonal balance (bass/treble) of the output. Labeled 'CUT' to 'FLAT'.
- **POWER Switch:** Toggles the amplifier's power ON/OFF.
- **POWER Indicator:** Illuminates when the amplifier is powered ON.

Rear Panel Connections



Figure 4: Detailed view of the amplifier's rear panel, showing power input, fuse, and speaker terminals.

- **AC Power Input:** Connects to 220-240V AC mains supply.
- **DC Power Input:** Terminals for 12V DC car battery connection. Observe polarity (+/-).
- **DC FUSE:** T 6A L fuse for DC power protection.
- **Speaker Outputs:** Screw terminals for connecting speakers. Options include COM (Common), 4Ω, 8Ω, 16Ω, and 100V line output.

SETUP

1. Unboxing and Inspection

Carefully remove the amplifier from its packaging. Inspect the unit for any signs of damage. Ensure all components are present.

2. Power Connection

The UB-30 can be powered by either AC mains or a 12V DC battery.

1. **AC Mains (220-240V):** Connect the provided AC power cord to the AC power input on the rear panel and then to a suitable wall outlet.
2. **DC Battery (12V):** For portable use, connect a 12V car battery to the DC input terminals on the rear panel. Ensure correct polarity: positive (+) to positive, negative (-) to negative.

Caution: Always ensure the amplifier is switched OFF before connecting or disconnecting power sources.

3. Speaker Connection

Connect your speakers to the appropriate terminals on the rear panel. Match the speaker impedance to the amplifier's output impedance for optimal performance and to prevent damage.

1. Connect the common (negative) terminal of your speaker(s) to the **COM** terminal on the amplifier.
2. Connect the positive terminal of your speaker(s) to the **4Ω, 8Ω, or 16Ω** terminal, matching your speaker's impedance.
3. For 100V line speakers, connect to the **100V** terminal and **COM**. Ensure your speakers are compatible with 100V line systems.

Important: Do not connect speakers to multiple impedance terminals simultaneously. Ensure all connections are secure.

4. Input Device Connection

1. **Microphones:** Connect microphones to the **MIC-1** and/or **MIC-2/AUX** 6.3mm input jacks on the front panel.
2. **Auxiliary Devices:** Connect audio sources like smartphones, CD players, or laptops to the **MIC-2/AUX** input jack using an appropriate cable.

OPERATING INSTRUCTIONS

1. Powering On

1. Ensure all volume controls (MIC-1, MIC-2/AUX) are set to their minimum position (fully counter-clockwise).
2. Press the **POWER** switch on the front panel to the 'ON' position. The power indicator light will illuminate.

2. Adjusting Volume

1. For MIC-1, slowly turn the **MIC-1 Volume Control** clockwise until the desired sound level is achieved.
2. For MIC-2 or AUX input, slowly turn the **MIC-2/AUX Volume Control** clockwise until the desired sound level is achieved.
3. Avoid setting the volume too high, which can cause distortion or damage to speakers.

3. Tone Adjustment

Use the **TONE Control** knob to adjust the frequency response of the amplifier. Turning it towards 'CUT' will reduce higher frequencies (treble), while turning it towards 'FLAT' will provide a more balanced, full-range sound.

4. Powering Off

1. Turn all volume controls to their minimum position.
2. Press the **POWER** switch to the 'OFF' position. The power indicator light will turn off.

MAINTENANCE

Cleaning

Wipe the exterior of the amplifier with a soft, dry cloth. Do not use liquid cleaners or abrasive materials, as they may damage the finish or internal components.

Fuse Replacement (DC Fuse)

If the amplifier fails to power on when using DC battery power, the DC fuse may need replacement. The fuse is located on the rear panel.

1. **Important:** Disconnect all power sources (AC and DC) before attempting to replace the fuse.
2. Unscrew the fuse holder cap on the rear panel.
3. Remove the old fuse and replace it with a new fuse of the same type and rating (T 6A L).
4. Securely screw the fuse holder cap back into place.

Caution: Always replace fuses with the specified type and rating to prevent damage to the amplifier or risk of fire.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power, power indicator off.	Power cord not connected. Wall outlet not active. DC battery discharged or incorrectly connected. Blown fuse (AC or DC).	Check AC power cord connection. Test wall outlet with another device. Check DC battery charge and polarity. Replace fuse with correct rating (refer to Maintenance section).
No sound output.	Volume controls set too low. Input device not connected or not playing. Speaker connections loose or incorrect. Faulty speaker.	Increase MIC/AUX volume controls. Ensure input device is connected and playing audio. Verify speaker wiring and impedance match. Test with a different speaker.
Distorted sound.	Volume set too high. Incorrect impedance match. Faulty input cable or device.	Reduce volume levels. Verify speaker impedance matches amplifier output. Test with different cables or input devices.

SPECIFICATIONS

Feature	Detail
Power Output	30W RMS Max., 25W RMS at 10% THD

Feature	Detail
Input Channels	2 × Mic (1.0mV / 4.7kΩ), 1 × Aux (100mV / 470kΩ)
Speaker Outputs	4Ω, 8Ω, 16Ω & 100V Line
Frequency Response	150-10,000Hz ±3dB
Power Supply	AC: 220-240V 50/60Hz, DC: 12V (Car Battery)
Dimensions (L x W x H)	12 x 20 x 28 Centimeters
Item Weight	2.9 kg
Manufacturer	AHUJA
Country of Origin	India

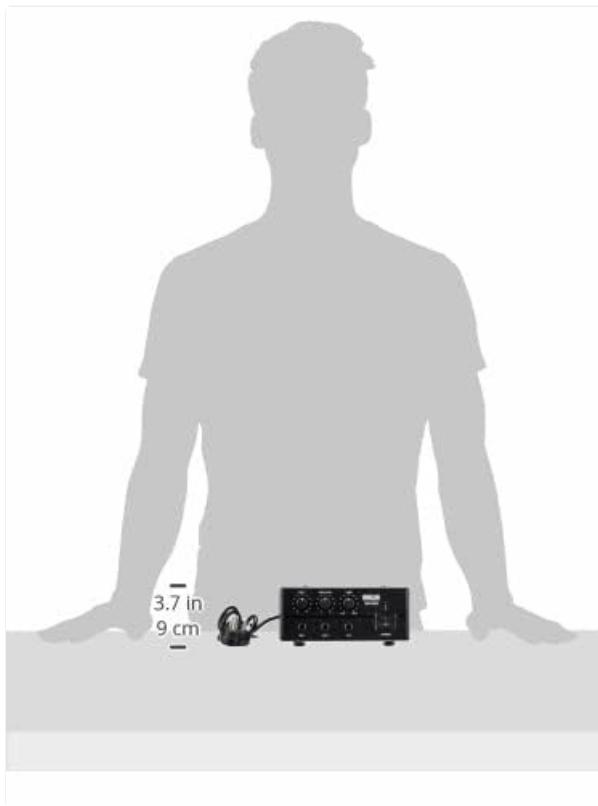


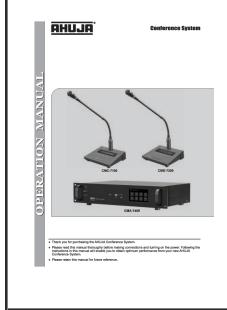
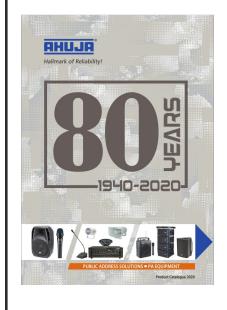
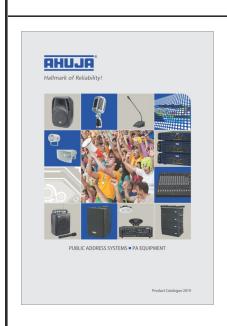
Figure 5: Size comparison of the Ahuja UB-30 amplifier, illustrating its compact dimensions.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Ahuja customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: AHUJA

Related Documents - UB-30

	<p>AHUJA XDA-3004 Four Channel Class D Amplifier Operation Manual Comprehensive operation manual for the AHUJA XDA-3004 Four Channel Class D Amplifier. Details setup, operation, safety, features, and specifications for professional audio applications.</p>
	<p>AHUJA CMA-7400 Conference System: Operation Manual and Specifications Comprehensive operation manual for the AHUJA CMA-7400 Conference System, covering features, installation, settings, connections, and technical specifications for the CMA-7400 Central Amplifier, CMC-7100, and CMD-7200 microphones.</p>
	<p>Ahuja Public Address Solutions & PA Equipment Product Catalogue 2020 Explore the comprehensive Ahuja Public Address (PA) and Sound Equipment Product Catalogue for 2020, featuring a wide range of amplifiers, microphones, speakers, conference systems, and more. Discover solutions for professional audio needs.</p>
	<p>Ahuja Audio Systems: Exhibitions, Roadshows, and Installation Report A comprehensive report detailing Ahuja's extensive network of roadshows, exhibitions, and recent successful installations across various sectors including offices, commercial venues, educational institutions, and places of worship throughout India.</p>
	<p>Ahuja PA News: Latest Updates and Installations Stay informed with Ahuja PA News, featuring updates on dealer meets, training sessions, music forums, and recent installations of Ahuja sound systems across various venues. Discover the latest in public address technology.</p>
	<p>Ahuja Public Address Systems & PA Equipment Product Catalogue 2019 Explore the comprehensive Ahuja product catalogue featuring a wide range of Public Address (PA) systems, amplifiers, microphones, speakers, and professional audio equipment. Discover innovative solutions for all your sound reinforcement needs.</p>

