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Crown 1160MA

Crown 1160MA Mixer-Amplifier User Manual

MODEL: 1160MA

1. Introduction

Thank you for choosing the Crown 1160MA Mixer-Amplifier. This professional audio device is designed to provide versatile mixing and amplification capabilities for various sound reinforcement applications. It features multiple input channels with individual controls, a robust output, and essential indicators for efficient operation. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your unit.



Figure 1.1: Crown 1160MA Mixer-Amplifier, showing the front panel and top ventilation.

2. Safety Information

Please read and understand all safety instructions before operating this device. Retain this manual for future reference.

- **Power Source:** Connect the unit only to the specified voltage and frequency as marked on the rear panel.
- **Ventilation:** Ensure adequate ventilation. Do not block ventilation openings. Maintain at least 10 cm (4 inches) of clear space around the unit.
- **Moisture:** Do not expose the unit to rain or moisture. Do not place objects filled with liquids on the unit.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to service this unit yourself.
- **Cleaning:** Disconnect power before cleaning. Use a dry cloth only.

3. Product Overview

3.1 Front Panel



Figure 3.1: Front Panel of the Crown 1160MA Mixer-Amplifier.

The front panel provides access to essential controls and indicators for real-time operation:

- **Power Switch:** Toggles the unit's power on/off.
- **Input Volume Control Knobs (x4):** Adjust the individual volume levels for each of the four input channels.
- **Bass Controls (x4):** Adjust the low-frequency response for each input channel.
- **Treble Controls (x4):** Adjust the high-frequency response for each input channel.
- **Output Volume Control Knob (Master):** Controls the overall output volume of the mixer-amplifier.
- **Signal Indicators (Green LEDs):** Illuminate to indicate the presence of an audio signal on each input and the main output.
- **Clip Indicator (Red LED):** Illuminates when the output signal is clipping, indicating potential distortion.
- **Power Indicator (Blue LED):** Illuminates when the unit is powered on.

3.2 Rear Panel

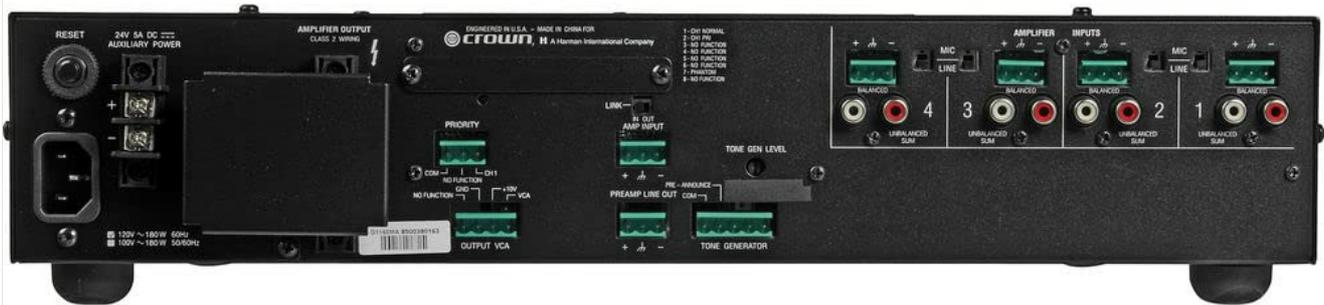


Figure 3.2: Rear Panel of the Crown 1160MA Mixer-Amplifier, showing all input and output connectors and configuration switches.

The rear panel houses all input/output connections and configuration switches:

- **AC Power Inlet:** Standard IEC power connector for mains power.
- **2-Position Terminal Strip (24VDC Backup Power):** For connecting an external 24VDC backup power supply.
- **3-Pin Phoenix Connector for Priority Muting:** Allows for external control of priority muting functions.
- **3-Pin Balanced Phoenix Output Connector:** Main audio output connection.
- **5-Pin Phoenix Connector for Tone Generator:** For connecting an external tone generator.
- **Balanced 3-Pin Phoenix Input Connectors (x4):** Professional balanced inputs for microphones or line-level sources.
- **RCA Stereo Input Pairs (8 Jacks Total):** Unbalanced stereo RCA inputs for consumer audio devices.
- **Mixer Config. DIP Switch:** Configures settings for Priority Muting and Phantom Power.
- **Mic/Line Selector Switches (x4):** Selects between microphone or line-level sensitivity for each input.
- **Output Tone Control Potentiometer:** Adjusts the overall tone of the output signal.

3.3 Key Features

- Four input channels, each with stereo RCA jacks and balanced phoenix-type connectors.
- One output channel with a balanced phoenix-type connector.
- Priority muting for paging applications.
- Clear signal indicator LEDs for inputs and output.
- Individual level, bass, and treble controls for each input channel.
- Built-in phantom power for condenser microphones.

4. Setup

Follow these steps to set up your Crown 1160MA Mixer-Amplifier:

1. **Placement:** Place the unit on a stable, flat surface or mount it in a standard 19-inch equipment rack. Ensure adequate ventilation around the unit.
2. **Power Connection:** Ensure the power switch on the front panel is in the OFF position. Connect the supplied AC power cord to the AC Power Inlet on the rear panel and then to a suitable mains power outlet.
3. **Input Connections:**
 - For microphones or balanced line-level sources, use the 3-pin Phoenix Input Connectors.
 - For unbalanced stereo sources (e.g., CD players, media players), use the RCA Stereo Input Pairs.
 - Set the corresponding Mic/Line Selector Switches on the rear panel to the appropriate setting (MIC for microphones, LINE for line-level sources).
 - If using condenser microphones, enable Phantom Power via the Mixer Config. DIP Switch on the rear panel for the respective channel.
4. **Output Connection:** Connect your amplifier or powered speakers to the 3-Pin Balanced Phoenix Output Connector on the rear panel.
5. **Optional Connections:** Connect 24VDC backup power or a priority muting system if required, following the specific instructions for those systems.
6. **Initial Settings:** Before powering on, set all Input Volume, Bass, Treble, and Master Output Volume controls to their minimum (fully counter-clockwise) positions.

5. Operating Instructions

Once the unit is set up, follow these steps for operation:

1. **Power On:** Flip the Power Switch on the front panel to the ON position. The blue Power Indicator LED will illuminate.
2. **Adjust Input Levels:** Slowly increase the Input Volume Control Knob for the desired input channel. Observe the green Signal Indicator LED; it should illuminate consistently with the audio signal. If the red Clip Indicator LED flashes, reduce the input volume to prevent distortion.
3. **Tone Adjustment:** Use the Bass and Treble Controls for each input to fine-tune the low and high frequencies of that specific source. The Output Tone Control Potentiometer on the rear panel provides overall tone adjustment for the main output.
4. **Master Output Level:** Gradually increase the Master Output Volume Control Knob to achieve the desired overall sound level from your speakers. Again, monitor the Clip Indicator LED to avoid distortion.
5. **Priority Muting:** If configured, the priority muting feature will automatically attenuate other audio signals when a designated priority source (e.g., a paging microphone) is active.

6. **Monitoring:** Continuously monitor the Signal and Clip Indicator LEDs during operation to ensure optimal signal levels and prevent clipping.

6. Maintenance

Regular maintenance ensures the longevity and reliable performance of your mixer-amplifier:

- **Cleaning:** Disconnect the unit from power before cleaning. Use a soft, dry cloth to wipe down the exterior. Do not use liquid cleaners or solvents.
- **Ventilation:** Periodically check that the ventilation openings are clear of dust and debris. Use a soft brush or compressed air to gently remove any accumulation.
- **Connections:** Occasionally check all cable connections for secure fit. Loose connections can lead to signal loss or intermittent performance.
- **Storage:** If storing the unit for an extended period, ensure it is in a dry, cool environment, away from direct sunlight and extreme temperatures.

7. Troubleshooting

This section addresses common issues you might encounter. If the problem persists, contact qualified service personnel.

Problem	Possible Cause	Solution
No power	Power cord not connected; Power outlet faulty; Unit's power switch off.	Check power cord connection; Test power outlet; Ensure power switch is ON.
No sound output	Output volume too low; Input volume too low; Incorrect input selection; Cables faulty; Connected amplifier/speakers off or faulty.	Increase Master Output volume; Increase individual Input volume; Verify Mic/Line selector switches; Check all audio cables; Ensure connected equipment is powered on and functional.
Distorted sound	Input or output levels too high (clipping); Incorrect impedance matching; Faulty cables.	Reduce Input and/or Master Output volume until Clip LED no longer illuminates; Ensure correct Mic/Line settings; Check cable integrity.
Hum or noise	Ground loop; Unshielded cables; Nearby electrical interference.	Ensure all equipment is on the same electrical circuit; Use shielded cables; Move unit away from power transformers or other noise sources.
Microphone not working (condenser)	Phantom power not enabled.	Enable Phantom Power via the Mixer Config. DIP Switch for the specific channel.

8. Specifications

Detailed technical specifications for the Crown 1160MA Mixer-Amplifier:

Specification	Value
Product Dimensions	31 x 48.3 x 8.9 cm; 11.5 kg
Item Model Number	1160MA

Specification	Value
Item Weight	11 kg 500 g
Manufacturer	Crown
ASIN	B000G18EMO
Date First Available	6 August 2012
Generic Name	Mixers
Frequency Response	20Hz - 20kHz
Signal to Noise Ratio	100dB
Total Harmonic Distortion (THD)	0.05% (Typical)
Phantom Power	15VDC

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Crown Audio website. Keep your proof of purchase for warranty claims.
