Dynacord POWERMATE 600-3

Dynacord PowerMate 600-3 Powered Mixing Console User Manual

Model: **POWERMATE 600-3** | Brand: **Dynacord**

1. INTRODUCTION

The Dynacord PowerMate 600-3 is a professional-grade powered mixing console designed for exceptional audio performance and versatility. It integrates a high-quality mixer, a powerful amplifier, and a comprehensive effects section into a single, compact unit. This manual will guide you through the features, setup, operation, and maintenance of your PowerMate 600-3 to ensure you achieve the best possible sound and extend the life of your equipment.

Figure 1.1: Dynacord PowerMate 600-3 Front View

This image displays the Dynacord PowerMate 600-3 powered mixing console from a slightly elevated front perspective. It highlights the comprehensive layout of its 8 input channels, each with dedicated gain, EQ, and auxiliary controls, along with channel faders. The master section, effects unit, and graphic equalizer are also clearly visible, providing an overview of the console's user interface.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the Dynacord PowerMate 600-3. Failure to follow these instructions may result in electric shock, fire, or damage to the unit.

- **Power Source:** Connect the unit only to the specified voltage and frequency as indicated on the rear panel. Ensure the power cord is not damaged or pinched.

- **Grounding:** Always use a grounded power outlet. Do not defeat the grounding plug.

- **Ventilation:** Ensure adequate ventilation. Do not block ventilation openings. Maintain at least 10 cm (4 inches) of clear space around the unit for proper airflow.

- **Moisture and Liquids:** Do not expose the unit to rain, moisture, or any liquids. Do not place objects filled with liquids on or near the unit.

- **Heat:** Keep the unit away from heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.

- **Cleaning:** Unplug the unit from the power outlet before cleaning. Use only a dry cloth.

- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.

- **Object and Liquid Entry:** Never push objects of any kind into this product through openings as they

may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

3. PRODUCT FEATURES

The Dynacord PowerMate 600-3 is engineered with a robust set of features to meet the demands of professional audio applications:

- **8 Input Channels:** Provides ample connectivity for microphones, line-level instruments, and other audio sources.
- **Integrated Effects (FX):** High-quality digital effects processor for reverb, delay, chorus, and more, enhancing your sound.
- **Powerful Amplifier:** Built-in 2 x 1000 W amplifier delivers ample power for a wide range of passive loudspeakers.
- **Comprehensive EQ:** Each channel features a 3-band EQ, and a stereo master graphic equalizer provides precise control over the overall mix.
- **Versatile Connectivity:** Includes XLR and 1/4-inch TRS inputs, XLR, 6.35mm TRS, and 6.35mm TS outputs, and MIDI ports for external control.
- **Robust Construction:** Designed for durability and portability, featuring an integrated protective lid for transport.

4. SETUP

Proper setup is crucial for optimal performance and safety. Follow these steps to prepare your PowerMate 600-3 for use.

4.1 Unpacking and Placement

1. Carefully remove the PowerMate 600-3 from its packaging. Retain the packaging for future transport or storage.
2. Place the unit on a stable, flat surface. Ensure there is sufficient space around the unit for proper ventilation, especially around the rear cooling fans.
3. Avoid placing the unit near heat sources or in direct sunlight.

4.2 Power Connection

1. Ensure the PowerMate 600-3's power switch is in the OFF position.
2. Connect the supplied AC power cable to the power inlet on the rear panel of the unit.
3. Plug the other end of the power cable into a grounded electrical outlet.

4.3 Connecting Inputs

The PowerMate 600-3 offers various input options for different audio sources.

- **Microphones:** Connect microphones to the XLR inputs (MIC 1-8) on the top panel. If using condenser microphones, ensure phantom power (+48V) is enabled for the respective channels.
- **Line-Level Devices:** Connect instruments (keyboards, guitars with preamps), CD players, or other line-level devices to the 1/4-inch TRS/TS LINE inputs.
- **Auxiliary Inputs:** Use the AUX inputs for additional stereo sources.

4.4 Connecting Outputs

Connect your loudspeakers and monitoring systems to the appropriate outputs.

- **Main Speaker Outputs:** Connect your passive loudspeakers to the main speaker outputs (OUTPUT RIGHT, OUTPUT LEFT) on the rear panel using appropriate speaker cables. Ensure the impedance of your speakers matches the amplifier's specifications (e.g., 4 Ohms).

- **Monitor Outputs:** Connect active monitor speakers or external power amplifiers for stage monitors to the MON outputs.

- **Headphone Output:** Connect headphones to the PHONES jack for personal monitoring.

Figure 4.1: Dynacord PowerMate 600-3 Rear Panel

This image shows the rear panel of the Dynacord PowerMate 600-3. Prominently featured are the AC power inlet, two large cooling fan vents, MIDI In/Out ports, and the main speaker output connectors (XLR and 6.35mm TRS). Safety warnings and regulatory compliance information are also visible on the panel.

5. OPERATION

This section details the functions of the various controls and how to operate your PowerMate 600-3.

Figure 5.1: Dynacord PowerMate 600-3 Control Layout

This image offers a direct top-down view of the Dynacord PowerMate 600-3 powered mixing console. It provides a detailed perspective of the input jacks, channel strips, effects section, master controls, and the stereo master graphic equalizer. This view is ideal for understanding the overall control layout and signal flow.

5.1 Powering On/Off

1. **Power On:** Ensure all channel faders and the master fader are at their minimum (down) position. Turn on any connected source devices first. Then, flip the POWER switch on the rear panel to the ON position.

2. **Power Off:** Lower all channel faders and the master fader. Turn off the PowerMate 600-3 first, then turn off any connected source devices.

5.2 Channel Strip Controls (Per Channel)

- **GAIN Knob:** Adjusts the input sensitivity for the connected microphone or line-level device. Set this to achieve a strong signal without clipping (indicated by the PEAK LED).

- **EQ (High, Mid, Low) Knobs:** Three-band equalizer for shaping the tone of each input channel.

- **AUX Sends:** Controls the amount of signal sent to the auxiliary outputs, typically used for monitor mixes or external effects.

- **PAN Knob:** Positions the channel's signal in the stereo field (left to right).

- **MUTE Button:** Mutes the channel's output to the main mix.

- **PFL (Pre-Fader Listen) Button:** Sends the channel's signal to the headphones for monitoring before the fader.

- **Channel Fader:** Controls the volume level of the individual channel in the main mix.

5.3 Effects Section

The PowerMate 600-3 features an integrated digital effects processor.

- **FX Select:** Use the dedicated controls to browse and select from various effects programs (e.g., Reverb, Delay, Chorus).
- **FX Send:** Adjust the amount of signal sent from each channel to the effects processor using the FX send knobs on each channel strip.
- **FX Return:** Control the overall level of the processed effect signal returning to the main mix.

5.4 Master Section

- **Master Fader:** Controls the overall output volume of the main stereo mix.
- **Stereo Master Graphic Equalizer:** A multi-band graphic equalizer for fine-tuning the overall frequency response of your main mix.
- **Monitor Level:** Adjusts the volume of the monitor outputs.
- **Headphone Level:** Adjusts the volume of the headphone output.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and reliable operation of your PowerMate 600-3.

6.1 Cleaning

- Always disconnect the power cable before cleaning.
- Use a soft, dry, lint-free cloth to wipe down the exterior surfaces.
- For stubborn dirt, a slightly damp cloth with a mild, non-abrasive cleaner can be used, followed by a dry cloth.
- Avoid using abrasive cleaners, solvents, or aerosol sprays, as they may damage the finish or internal components.

6.2 Ventilation and Fan Maintenance

- Regularly check that the ventilation openings on the rear panel are clear of dust and debris.
- If dust accumulates on the fan grilles, gently clean them with a soft brush or a vacuum cleaner with a brush attachment. Do not insert objects into the fan blades.

6.3 Storage

Figure 6.1: Dynacord PowerMate 600-3 with Protective Lid
This image presents the Dynacord PowerMate 600-3 mixing console with its integrated protective lid securely closed. The lid covers the entire top surface, protecting the faders and knobs during transport or storage. The design emphasizes the unit's robust and portable nature.

- When not in use, especially during transport, ensure the integrated protective lid is securely closed to protect the controls and faders.

- Store the unit in a cool, dry place, away from extreme temperatures and humidity.

7. TROUBLESHOOTING

If you encounter issues with your PowerMate 600-3, refer to the following common problems and solutions before contacting service personnel.

- **No Power:**

  - Check if the power cable is securely connected to both the unit and the power outlet.
  - Verify that the power outlet is functional (test with another device).
  - Check the fuse on the rear panel (if accessible and replaceable by user).

- **No Sound Output:**

  - Ensure the PowerMate 600-3 is powered on.
  - Check that the master fader is raised.
  - Verify that individual channel faders are raised and not muted.
  - Check all audio cables for secure connections and proper orientation.
  - Ensure connected speakers are powered on (if active) and functioning correctly.
  - Confirm that the correct input source is selected and sending a signal.

- **Distorted Sound:**

  - Reduce the GAIN knob on the input channel if the PEAK LED is frequently lighting up.
  - Lower the channel fader or master fader if the output level is too high.
  - Check for damaged cables or faulty connectors.

- **Hum or Noise:**

- Ensure all equipment is properly grounded.
- Try isolating the PowerMate 600-3 from other electrical devices that might cause interference.
- Use balanced cables (XLR or TRS) where possible to reduce noise.

If the problem persists after trying these steps, please contact Dynacord customer support or a qualified service technician.

8. SPECIFICATIONS

Detailed technical specifications for the Dynacord PowerMate 600-3:

Feature	Specification
Model Number	POWERMATE 600-3
Dimensions (L x W x H)	52 x 52 x 27 cm
Weight	9 Kilograms
Manufacturer	Dynacord
Number of Channels	8
Power Type	Electrical Cable
Voltage	48 Volts
Connectivity Technology	Auxiliary
Audio Input	XLR, 1/4 inch TRS
Output Connector Type	XLR, 6.35mm TRS, 6.35mm TS
International Article Code	08717332865383

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, service, or technical support for your Dynacord PowerMate 600-3, please refer to the documentation provided with your purchase or visit the official Dynacord website. Spare parts availability information is not provided in the product details. For any service or repair needs, it is recommended to contact an authorized Dynacord service center or qualified technician.
You can find more information and support resources on the official Dynacord website.www.dynacord.com