

## Yamaha MGP24X

# Yamaha MGP24X Premium Mixing Console 24-Channel Mixer Instruction Manual

Model: MGP24X | Brand: Yamaha

## 1. INTRODUCTION

The Yamaha MGP24X mixing console combines analog warmth with sophisticated digital signal processing (DSP) functions within a compact metal chassis. This 24-channel mixer is designed for professional audio applications, offering a blend of traditional control and modern capabilities.

Key features include D-PRE Class A microphone preamplifiers with an inverted Darlington circuit design, X-pressive equalization for vintage EQ characteristics, and intelligent 1-knob compressors for dynamic control. The Stereo Hybrid channel provides advanced sound reinforcement functions such as Priority Ducker, Leveler, and Stereo Image.



Figure 1: Top-down view of the Yamaha MGP24X Premium Mixing Console, highlighting its comprehensive control surface.

## 2. SETUP

### 2.1 Unpacking and Inspection

Carefully remove the MGP24X mixer from its packaging. Inspect the unit for any signs of damage that may have occurred during transit. Retain all packaging materials for future transport or storage.

### 2.2 Power Connection

Connect the supplied power cord to the AC IN socket on the rear panel of the mixer and then to a suitable AC power outlet. Ensure the power switch is in the OFF position before connecting to power.

### 2.3 Input Connections

- **Microphone Inputs:** The MGP24X features 16 mic inputs with 48V phantom power and High-Pass Filter (HPF) per channel. Connect microphones using XLR cables. Activate phantom power for condenser microphones as needed.
- **Line Inputs:** Utilize the 24 line inputs (16 mono and 4 stereo) for connecting instruments, playback devices, or other audio sources.

### 2.4 Output Connections

- **Main Stereo Output:** Connect to your main PA system or recording interface.
- **AUX Sends:** The mixer provides 6 AUX sends and 2 FX sends for monitor mixes or external effects processors.
- **GROUP Buses:** 4 GROUP buses are available for sub-mixing multiple channels.
- **Matrix Out:** 2 Matrix outputs offer additional routing flexibility.

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Video 1: A closer look at the Yamaha MGP24X mixer, demonstrating its various input and output connections and overall layout. This video provides a visual guide to the physical aspects of the console.

## 3. OPERATING THE MGP24X

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### 3.1 Channel Controls

Each input channel features controls for gain, 3-band EQ (with sweepable mid-range on mono channels), pan, and level fader.

### 3.2 D-PRE Microphone Preamplifiers

The D-PRE preamps deliver high-quality, transparent sound. Ensure appropriate gain staging to prevent clipping and maintain optimal signal-to-noise ratio.

### 3.3 X-pressive EQ and 1-Knob Compressors

Utilize the X-pressive EQ to shape your sound with a classic analog feel. The intuitive 1-knob compressors allow for quick and effective dynamic control on individual channels. Turn the knob clockwise to increase compression.

### 3.4 Stereo Hybrid Channel Functions

- **Priority Ducker:** Automatically lowers the volume of background music when a microphone signal is detected, ideal for announcements.
- **Leveler:** Maintains a consistent output level for varying input signals, useful for playback or vocal performances.
- **Stereo Image:** Adjusts the stereo width of the signal, allowing for creative sound placement.

### 3.5 Digital Effects (SPX/REV-X)

The MGP24X includes high-quality SPX and REV-X digital effects. Select from various reverbs, delays, and modulation effects to enhance your mix. Adjust parameters using the dedicated controls.

### 3.6 USB Connectivity

The mixer features USB connectivity for direct playback from or recording to a USB device. It also supports digital connectivity for iPod/iPhone devices, allowing for high-quality audio playback and control via a dedicated app.

## 4. MAINTENANCE

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### 4.1 Cleaning

Regularly clean the surface of the mixer with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or waxes, as these can damage the finish and controls. For stubborn dirt, a slightly damp cloth with mild soap can be used, followed by a dry cloth.

### 4.2 Storage

When not in use, store the mixer in a cool, dry place away from direct sunlight and extreme temperatures. If transporting, use appropriate protective cases to prevent physical damage.

### 4.3 Cable Management

Ensure all cables are neatly organized and not under excessive tension or prone to being tripped over. Damaged

cables can lead to signal loss or intermittent issues.

## 5. TROUBLESHOOTING

### 5.1 No Sound Output

- Check all power connections and ensure the mixer is turned on.
- Verify that main faders and channel faders are raised.
- Ensure no MUTE buttons are engaged on channels or main outputs.
- Confirm that output cables are correctly connected to your amplifier or powered speakers.

### 5.2 Distorted Audio

- Check input gain levels for each channel; reduce if the "PEAK" indicator is consistently lit.
- Ensure output levels are not clipping at the mixer or connected devices.
- Inspect cables for damage or improper connections.

### 5.3 No Phantom Power

- Verify that the 48V phantom power switch is engaged for the desired channels.
- Ensure you are using XLR cables, as phantom power is not supplied via 1/4" TRS connections.

## 6. SPECIFICATIONS

Feature	Detail
Model Number	MGP24X
Number of Channels	24
Mic Inputs	16 (with 48V Phantom Power and HPF)
Line Inputs	24 (16 mono and 4 stereo)
AUX Sends	6 AUX Sends + 2 FX Sends
GROUP Buses	4 GROUP Buses + ST Bus
Matrix Out	2 Matrix Out
Connectivity Technology	USB
Item Weight	44.1 pounds (20000 Grams)
Product Dimensions	37.4 x 27.95 x 11.02 inches
Power Source	Corded Electric

## 7. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Yamaha website or contact your authorized Yamaha dealer. Keep your purchase receipt as proof of purchase for warranty claims. Online resources, including FAQs and software updates, may also be available on the Yamaha support portal.

