Vonyx VM-KG06

Vonyx VM-KG06 6-Channel Mixer User Manual

Professional Mixing Console with Bluetooth, DSP, and USB Audio Interface

1. Introduction

Thank you for purchasing the Vonyx VM-KG06 6-Channel Mixer. This compact yet comprehensive mixing console is designed for a wide range of audio applications, including podcasts, live music performances, vocal recordings, studio sessions, and more. It integrates advanced features such as Bluetooth connectivity, an MP3 player, a powerful Digital Sound Processor (DSP) with 99 effects, and a USB audio interface for seamless computer integration.
This manual provides essential information for the safe and efficient operation of your VM-KG06 mixer. Please read it thoroughly before use and keep it for future reference.



Figure 1.1: Front view of the Vonyx VM-KG06 6-Channel Mixer, showcasing its compact design and control layout.

2. Safety Instructions

To ensure safe operation and prevent damage, please observe the following safety precautions:

- **Power Source:** Only use the specified 5V USB power source. Ensure the power supply is stable and matches the device's requirements.
- **Water and Moisture:** Do not expose the mixer to water, rain, or excessive moisture. Avoid placing liquid-filled objects on or near the unit.
- **Ventilation:** Ensure adequate ventilation around the mixer. Do not block ventilation openings.
- **Heat:** Keep the mixer away from heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Cleaning:** Clean only with a dry cloth. Do not use liquid cleaners or aerosol cleaners.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

Opening the unit may void the warranty.

- **Cables:** Protect power cords from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



Figure 2.1: Rear view of the mixer showing power input and safety warnings. Always adhere to caution labels.

3. Setup

3.1 Unpacking

Carefully remove the mixer from its packaging. Verify that all components are present:

- Vonyx VM-KG06 Mixer Unit
- USB Power Cable
- User Manual (this document)

3.2 Power Connection

The VM-KG06 mixer is powered via USB. Connect the supplied USB cable to the "POWER EXT.DC IN (5V/1A)" port on the rear of the mixer and plug the other end into a compatible USB power source (e.g., a computer USB port, a USB wall adapter, or a power bank).

3.3 Connecting Inputs

The mixer offers various input options:

- **Channels 1 & 2 (Mono):** These channels feature combo XLR/6.3mm jack inputs for microphones or line-level instruments.
    - For condenser microphones, activate the **+48V Phantom Power** switch.
    - Use the **PAD** switch to attenuate the signal by -20dB for high-output sources.
- **Channel 3/4 (Mono or Stereo):** This channel has 6.3mm jack inputs (L/R) and a 3.5mm jack input for stereo line-level devices.
- **Channel 5/6 (Mono or Stereo / USB):** This channel has 6.3mm jack inputs (L/R) and can also receive audio from the built-in USB MP3 player or a connected computer via the USB audio interface.



Figure 3.1: Input section detailing XLR/6.3mm combo jacks, phantom power, and PAD switches for channels 1 and 2.

3.4 Connecting Outputs

The mixer provides the following output options:

- **Main Out (XLR L/R):** Balanced XLR outputs for connecting to main speakers or recording devices.
- **Monitor Out (6.3mm Jack L/R):** Unbalanced 6.3mm jack outputs for connecting to monitor speakers.
- **Headphone Out (6.3mm Jack):** A 6.3mm stereo jack for connecting headphones for monitoring.



Figure 3.2: Output section showing main faders and XLR main outputs for connecting to external audio systems.

4. Operating Instructions

4.1 Controls Overview

Familiarize yourself with the various controls on the mixer:

- **GAIN Knob:** Adjusts the input sensitivity for each channel.
- **EQ Section (High, Mid, Low, Freq):** Tone control for channels 1 & 2. The MID control is sweepable, allowing precise frequency adjustment.
- **PAN Knob:** Adjusts the stereo position of the channel signal.
- **FX/SEND Knob:** Controls the amount of signal sent to the internal DSP effects processor.
- **LEVEL Fader/Knob:** Adjusts the output level of each channel.
- **MAIN Fader:** Controls the overall output level of the main mix.
- **DSP Section:** Features 99 pre-programmed effects. Use the PROGRAM knob to select effects and push to confirm.

- **MP3 Player/Recorder:** Built-in player for USB drives. Supports playback and recording.
- **Bluetooth:** Allows wireless audio streaming from compatible devices.



Figure 4.1: Overview of the mixer's control surface, highlighting the 6-channel layout and DSP effects section.

4.2 Basic Operation

1. **Power On:** Connect the USB power cable. The power indicator will illuminate.
2. **Input Level Adjustment:**
    - Connect your audio source to the desired input channel.
    - Slowly increase the **GAIN** knob for that channel until the PEAK indicator flashes only occasionally during the loudest parts of the signal.
    - Adjust the channel **LEVEL** fader/knob to balance the sound with other channels.
3. **Equalization (EQ):** Use the HIGH, MID, and LOW knobs on channels 1 & 2 to shape the tone of your audio. The MID frequency knob allows you to select the specific frequency range for adjustment.



Figure 4.2: Detailed view of the equalizer controls for precise tone shaping.

4. **Applying Effects (DSP):**
    - Turn the **FX/SEND** knob on the desired channel to send signal to the DSP.
    - Use the **PROGRAM** knob in the DSP section to browse through the 99 effects. Push the knob to select an effect.
    - Adjust the **FX LEVEL** knob to control the overall wet/dry mix of the effects.
5. **MP3 Player / USB Audio Interface:**
    - **MP3 Playback:** Insert a USB flash drive with MP3 files into the USB port. Use the transport controls (Play/Pause, Next, Previous) on the mixer to navigate and play tracks.
    - **USB Recording:** The mixer can record directly to a USB flash drive. Press the REC button to start recording.
    - **USB Audio Interface:** Connect the mixer to a computer via the USB port. The mixer will be recognized as an audio device, allowing you to record audio from the mixer to your computer or play audio from your computer through the mixer.



Figure 4.3: USB port and MP3 player controls for playback and recording functionalities.

6. **Bluetooth Streaming:**
    - Activate Bluetooth on your smartphone, tablet, or other streaming device.
    - Select "Vonyx VM-KG06" from the list of available devices to pair.
    - Once paired, audio from your device will stream wirelessly to the mixer.



Figure 4.4: Bluetooth connectivity allows wireless audio streaming from mobile devices.

7. **Main Output Level:** Adjust the **MAIN** fader to control the overall volume sent to your main speakers or recording device.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your Vonyx VM-KG06 mixer.

- **Cleaning:** Regularly wipe the surface of the mixer with a soft, dry, lint-free cloth. Do not use abrasive cleaners, waxes, or solvents as they may damage the finish.
- **Storage:** When not in use for extended periods, store the mixer in a cool, dry place, away from direct sunlight and extreme temperatures. It is recommended to keep it in its original packaging or a protective case.
- **Ventilation:** Ensure that the ventilation openings are free from dust and debris. Use a soft brush or compressed air to gently clear any blockages.
- **Cable Care:** Avoid bending or kinking cables excessively. Disconnect cables by pulling the plug, not the cable itself.

6. Troubleshooting

If you encounter issues with your VM-KG06 mixer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound output	Mixer not powered on. Main fader or channel level fader/knob is down. Incorrect input/output connections. Connected speakers/headphones are off or faulty.	Ensure USB power is connected and power indicator is on. Raise the MAIN fader and relevant channel LEVEL fader/knob. Verify all cables are correctly connected to inputs and outputs. Check the power and volume of connected audio devices.
Distorted sound	Input signal too high (clipping). Output level too high. PAD switch not engaged for high-output sources.	Reduce the GAIN knob for the affected channel until the PEAK indicator stops flashing constantly. Lower the channel LEVEL fader/knob or MAIN fader. Engage the PAD switch for microphones or instruments with strong signals.
Bluetooth not connecting	Mixer not in pairing mode. Device too far from mixer. Interference from other wireless devices.	Ensure the mixer's Bluetooth mode is active. Move the Bluetooth device closer to the mixer. Turn off other nearby wireless devices temporarily.
USB drive not recognized	Incorrect file format on USB drive. USB drive not properly inserted. USB drive capacity too large or incompatible.	Ensure files are in MP3 format. Re-insert the USB drive firmly. Try a different USB drive, preferably smaller capacity (e.g., 32GB or less) and formatted to FAT32.

7. Specifications

Detailed technical specifications for the Vonyx VM-KG06 mixer:

Feature	Detail
Channels	6 (4 mono inputs, 2 of which can be stereo; 2 stereo inputs)
DSP Effects	99 pre-programmed effects (32-bit resolution)
Bluetooth	Yes, for wireless audio streaming
USB Audio Interface	Yes, for PC recording and playback
MP3 Player/Recorder	Built-in, supports USB drives
Phantom Power	+48V switchable (Channels 1 & 2)
Tone Control (EQ)	High, Mid (sweepable), Low (Channels 1 & 2)

Feature	Detail
Inputs per Channel	Ch 1 & 2: XLR and 6.3mm jack (mono) Ch 3 (and 4): 6.3mm jack (mono or stereo) or 3.5mm jack (stereo) Ch 5 (and 6): 6.3mm jack (mono or stereo)
Outputs	Balanced XLR Main Out Unbalanced 6.3mm jack Monitor Out 6.3mm jack Headphone Out
Frequency Response	20Hz - 20,000Hz
Power Supply	5V (via USB)
Dimensions (L x W x H)	27.5 x 26 x 6 cm (approx. 10.8 x 10.2 x 2.4 inches)
Weight	1.9 kg (approx. 4.2 lbs)



Figure 7.1: Product dimensions for the Vonyx VM-KG06 mixer.

8. Warranty and Support

For warranty information and technical support, please refer to the terms and conditions provided by your retailer or contact the manufacturer, Tronios B.V., directly. Keep your proof of purchase for any warranty claims.
For the most up-to-date support resources, visit the official Vonyx website or the website of your purchasing retailer.

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