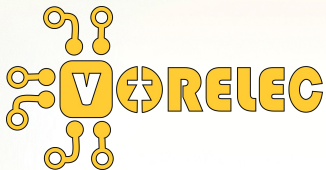


# MX-21 Two-Channel Headphone Mixer



**Beaverton  
Oregon  
USA**

# Vorelec MX-21 User Manual

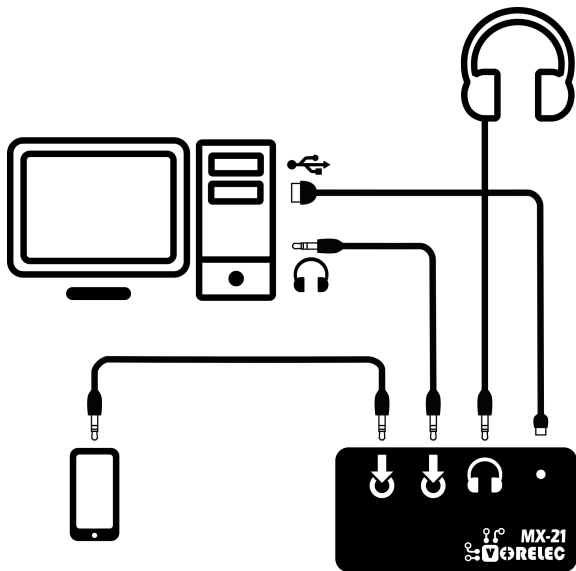
Thank you for purchasing the Vorelec MX-21 Two-channel headphone mixer!

We hope that we have created a quality product that will provide you many years of entertainment and productivity.

## Table of contents

Quick Start .....	1
Product Description and Usage.....	2
Package Contents.....	3
Connection Details.....	4
A Note About Speakers and Other Output Devices...	5
Troubleshooting.....	6
Specifications.....	8
Other Notices.....	8
Contact information.....	9

# Quick Start



## Product Description and Usage

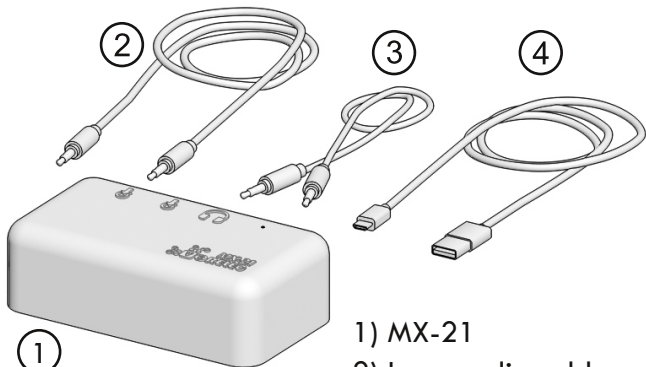
The MX-21 is designed as a companion to your computer and phone, to combine their audio signals into one output for your headphones. It can also be used with any devices that have a headphone output.

Do you find yourself constantly switching plugs between your phone and computer? With the MX-21, you can keep them both plugged in, and never miss a sound.

For convenience, the MX-21 is powered by USB, so you don't need an adapter and a wall outlet - just plug it into your computer's USB port. You can also power it from a USB wall adapter (not included).

For ease of use, there are no controls on the MX-21. The volume of the sound is controlled in the usual way from your phone, computer, or whatever devices are connected. The volume from the MX-21 will be approximately the same as the volume from your phone or computer.

# Package Contents



- 1) MX-21
- 2) Long audio cable
- 3) Short audio cable
- 4) USB cable

## Connection Details

- 1** Using the provided USB cable, connect the MX-21 to any USB port on your computer as shown on page 1. Blue power indicator will turn on. Alternatively, you can power it from a USB wall adapter (not included).
- 2** Using the provided short audio cable, connect the MX-21 to your phone headphone output (or other device providing audio output).
- 3** Using the provided long audio cable, connect the MX-21 to your computer audio output, usually a green-colored connector (or other device providing audio output).
- 4** Connect your headphones to the MX-21.
- 5** Turn on some music on the computer or the phone, and enjoy the sound!

## A Note About Speakers and Other Output Devices

The MX-21 is designed primarily for use with headphones. It is not promoted for use with speaker systems or other output devices, due to the potential for ground loops in such systems, which may affect the quality of sound output.

However, the sound inputs and outputs are compatible, and in most cases the quality will not be affected, depending on the cabling environment.

If you connect to speakers or other devices with their own power supplies, and you experience sound problems, you may be able to address them by changing the power supply – for example, trying different wall adapters – or by using an Audio Ground Loop Isolator on the audio output from the MX-21.

# Troubleshooting

## Problem

## Solution

No power, blue  
power light  
not lit

Check USB connection to computer. Make sure computer is turned on.

No sound

Check for power. Then check sound source (phone or computer) by plugging headphones directly into the source.

Check that your audio connections are correct. The computer and phone should be connected to the jacks marked with arrows (see Quick Start Figure on page 1), and the headphones to the jack marked with a headphone symbol.



## Problem

Noisy or distorted sound output

## Solution

First, plug headphones directly into sound source (phone or computer), and see if the problem is the MX-21 or the sound source.

Excessive volume can cause distortion; try reducing the volume at the source.

Some USB power sources can be noisy enough to overcome the MX-21's filter circuits. Try a different USB power source.

## Specifications

Power Source: USB Micro connector, power only

5V Typical, 100mA maximum

Audio Input: 4Vpk-pk maximum, AC coupled

Input Impedance:  $\sim 95\Omega$

Frequency Response:  $\pm 1\text{dB}$  40Hz-20kHz

Audio Output Power: 100mW maximum

Audio Output Load:  $8\Omega$  minimum

## Other Notices

### **Disposal of Electrical and Electronic Equipment**

Product with the symbol (crossed-out wheeled bin) cannot be disposed of as household waste.

Electrical and Electronic Equipment should be recycled at a facility capable of handling these items and their waste byproducts.

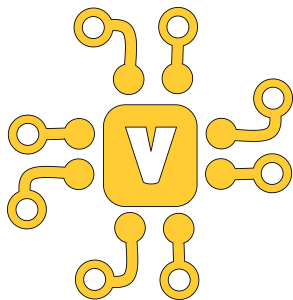
Please contact a local equipment supplier representative or service center for information about the waste collection system in your country.

# Contact

Vorelec LLC  
Beaverton OR USA  
support@vorelec.com

Thank you again for using our product! We hope you have the best possible experience, and will not hesitate to contact us if there is any way we can help!  
Fritz Capell, Principal Engineer

A handwritten signature in black ink, appearing to read 'Fritz Capell', with a long horizontal line extending to the right.



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