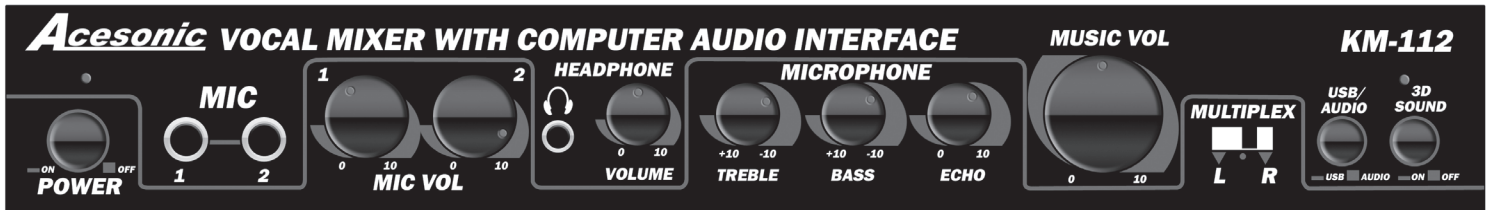


User Manual

NOTE: To ensure your equipment works safely and to its fullest potential, please read this User's Manual carefully before operating, and keep for future reference.



Thank you for purchasing Acesonic's KM-112 Vocal Mixer with Computer Audio Interface. At Acesonic, we take pride in providing you with the most advanced, highest quality products on the market. With proper care you will get many years of satisfying use from your Acesonic product.

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Parts Checklist

Your Acesonic KM-112 system includes:

- Acesonic HM-702 mic with 14-ft. cable (1)

- USB A-to-B cable (1)
- KM-112 Vocal Mixer and Computer Audio Interface (1)
- RCA cable, RCA red/white/yellow both ends (1)
- Mini-jack-to-RCA cable (1)
- User Manual (1)
- Warranty Registration Card (1)

Be sure to keep original packaging in case re-shipping is required for returns or repairs.

First Things First

Before using your new equipment, there are a few things you should do and know:

- **IMPORTANT:** Check to see that your local power outlets supply the correct voltage for the AC adapter. **Note:** Be certain you have selected the correct voltage setting on the rear panel switch before using device. (See "Rear Panel Operations and Functions" on page 4 and refer to item number 5.)
- Do not dismantle the device on your own. For needed repairs, contact the local distributor or authorized service center.
- When the system will not be used for a long time, disconnect the power plug from the wall (as well as the back of the receiver).

Care and Cleaning

Please make sure the power is disconnected before cleaning the KM-112 unit. It, as well as the microphone, can be cleaned by using a soft cloth dampened with warm water. Dry the machine with a dry cloth and let it air dry for 15 minutes. Please do not use volatile gasoline or other chemicals to clean the receiver or microphone.

Avoid Moisture, Water and Dust

- Do not place the mixer in a moist environment or in an area where there might be an excessive amount of dust build up (e.g., near a fan).
- If water or any liquid should get into the unit, turn off the power and unplug the unit from the wall outlet immediately. Consult your dealer or an authorized repair station. Using the unit in this state may lead to fire or electrical shock.

Avoid High Temperatures

- Do not expose the KM-112 to direct sunlight or set near any heating device.

Notes on Installation

- Select a place where the unit will be level, dry and neither too cold nor hot.
- Do not use unit on its side or where it will be subject to vibrations (e.g., near speakers).
- Leave sufficient distance between the TV and unit.
- Do not leave heavy objects on top of unit.

Preventing Malfunctions of the Unit

- No parts in this unit are user-serviceable. If the unit no longer functions, unplug the unit from the wall outlet and contact your dealer for service options.
- Never block the vents on the unit. Vents are used to circulate air and keep the temperature of the device down. Blocking the vents may result in damage of the unit.

Review of KM-112 Features

1. Transform any DVD/MP3 player or PC into a karaoke machine. Add vocals to any music source for karaoke entertainment. Use USB cable to connect to your PC to become a karaoke/media center and computer audio interface for recording and playback.
2. Two 1/4" microphone inputs. Have up to two

singers using the 1/4-inch microphone style jacks on the front panel.

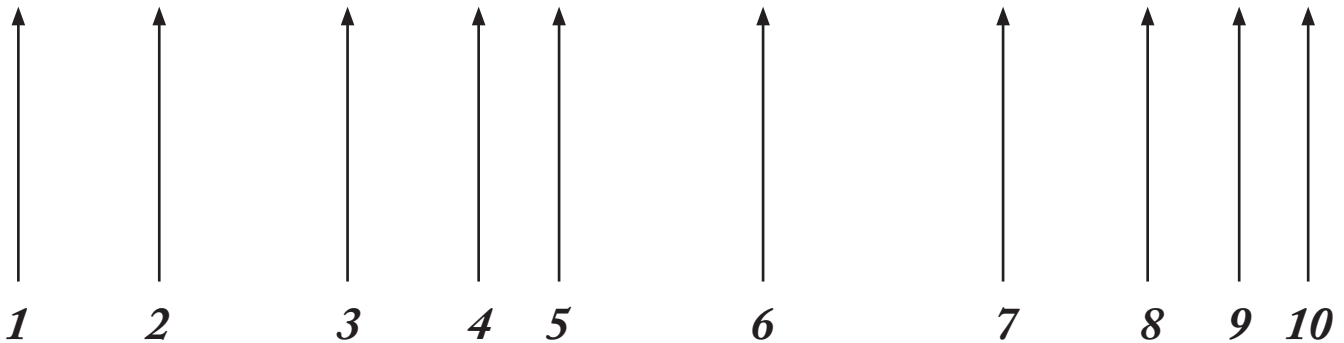
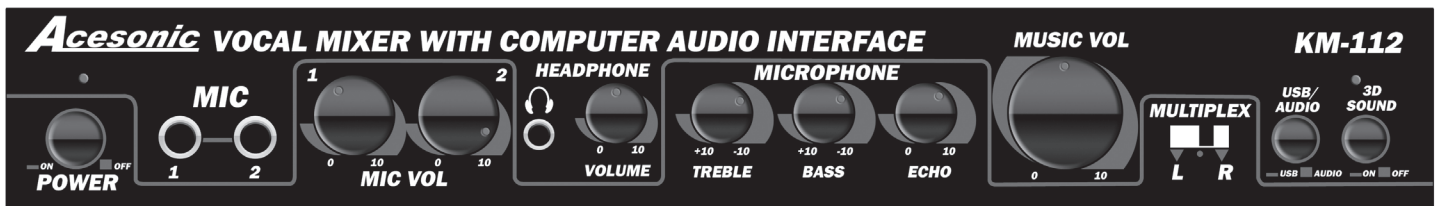
3. Two XLR microphone inputs on rear. You can use two XLR inputs to plug in mics, guitars, etc.
4. 3D sound processor. Advance digital sound enhancement technology improves the full range of audio frequencies to fine-tune the sound of your musical output. It enables users to enjoy a more natural and comfortable sound.
5. Microphone treble and bass control. You can adjust the level of high and low frequencies to the microphone channels.
6. Microphone echo control. You can adjust the digital echo effect applied to the microphone channels.
7. Individual microphone volume control. Adjust each microphone volume individually.
8. Multiplex. With Multiplex karaoke media, lead vocals and music are recorded in separate left and right stereo channels. You can select channels with the Multiplex switch on the front panel to cancel the guide vocals.
9. Audio line in. The audio line in is for connecting the sound output of a computer, MP3 player, MP4 player or DVD player to the KM-112 for audio output.
10. USB audio in and out. The USB port is for connecting the KM-112 to a computer via USB port for both audio in and out. *See page 4, "Recording and Playback with Computer" for more information on using USB.*
11. One audio line out. This output is for connecting the KM-112 to the input of an amplifier, receiver or TV audio input.
12. Mini-jack audio out. This front panel jack can be used to plug into your headphones or speakers for listening or monitoring while recording through the USB interface.

Please see pages 7-8 for complete safety instructions and FCC advisories regarding the KM-112.



Front Panel Operation and Functions

1. Power switch: Use this to turn the main power on and off. **Note:** Always turn off the main power and set all volume controls to zero before making any audio connections.
2. Front panel microphone inputs: Use these 1/4-inch jack type microphone input connectors to connect microphones to Microphone Channels 1 and 2 via the front panel.
3. Individual microphone volume controls: Use these to set the volume of each microphone in relation to the other microphones.
4. Headphone/alternate speaker output: Plug in your headphones or alternate (powered) speakers here.
5. Headphone volume control: Control the volume of the headphones or alternate speakers here.
6. Microphone tone and echo controls: Use the bass and treble tone controls to adjust the tone of both microphone channels at once. Use the echo control to adjust the level of the echo effect in relation to the volume of the microphone(s).
7. Music volume control: Use this control to adjust the playback volume of the music. **Note:** This control does not adjust volume of the microphones or effects.
8. Multiplex switch: Choose L, R or Stereo with this switch. This allows you to cancel the channel with the guide vocals.
9. Computer/audio button: Use this button to select whether you want to use the KM-112 as an audio mixer (Audio) or as a USB interface (USB) to record vocals on your Windows computer.
10. 3D sound processor button: Use this to turn the 3D sound enhancer on/off.



Technical Specifications

- Size: 11.5 (L) x 7.75 (W) x 1.75 (H) in inches,
- 3.2 lbs. net weight
- PC to KM-112 USB connection
- KM-112 has an integrated C-Media CM106 Audio I/O Controller
- (2) 1/4-inch audio inputs (unbalanced, front)
- (2) XLR audio inputs (balanced, rear)
- RCA audio inputs (2, rear)
- RCA audio outputs (2, rear)
- Mini-jack audio out (1, front)
- Voltage: Switchable 115~230V (rear)
- Adheres to FCC regulations (*see page 7*)

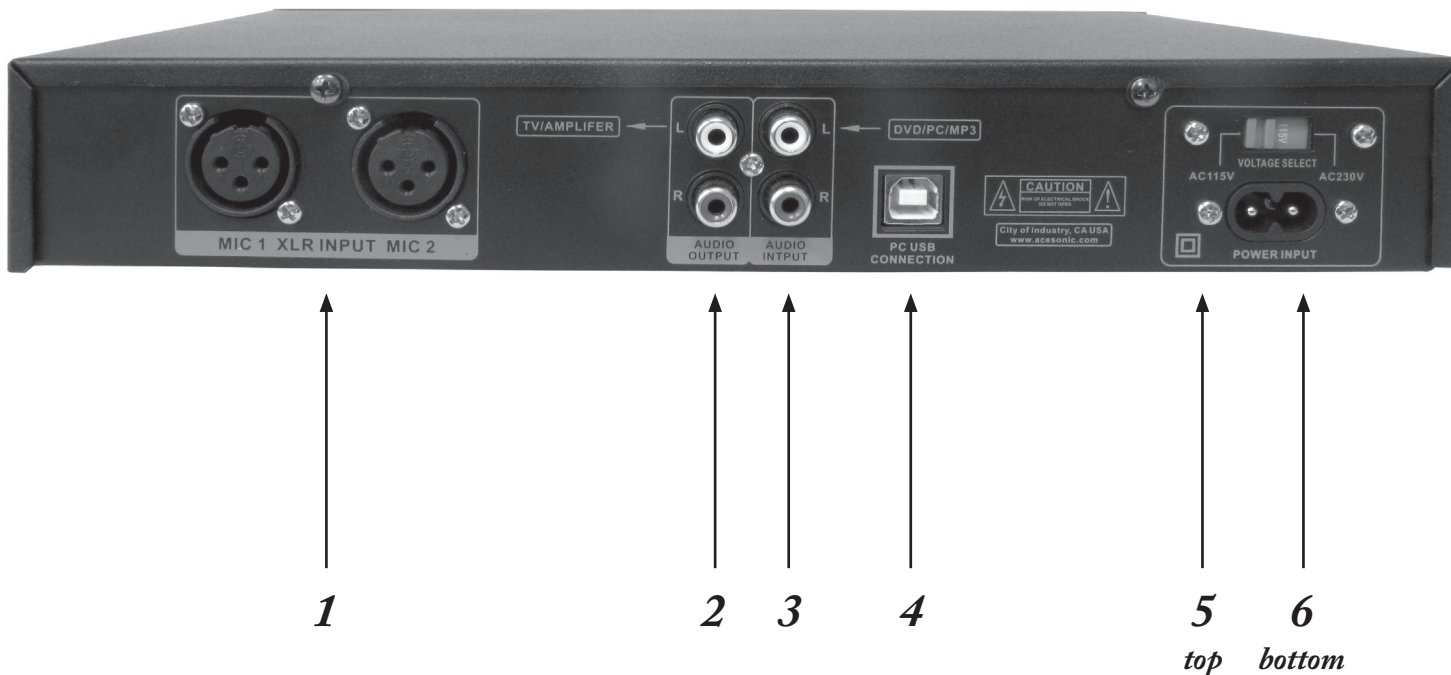
Rear Panel Operation and Functions

1. XLR balanced inputs: With these inputs you can connect a balanced microphone, the output jack of a wireless microphone or an electric guitar with balanced output.
2. Audio out: Connect this RCA type line level output to the input of an amplifier or powered (active) speaker system.
3. Audio line input: Line level audio input using RCA type connectors. This can accept a signal from any line level audio device, such as DVD, CD, MD, PC, MP3/MP4 players, etc.
4. USB cable connection: Use this USB cable to con-

nect KM-112 to your computer for audio in and out. Please use the USB cable that comes with your KM-112 and connect it first. The driver of KM-112 will automatically install into your Windows computer. After installing the driver, please restart your computer to activate the driver (Windows) and register the device with Device Manager to use both the mixer and the USB interface functions .

5. Voltage switch: Select the power supply voltage for the KM-112 according to your local power supply (115V-230V). Default settings are 115V for USA and Canada, 230V for Europe.

6. Power cable connector: Use this to connect the power cord to supply AC power to the unit.



Recording and Playback with Computer

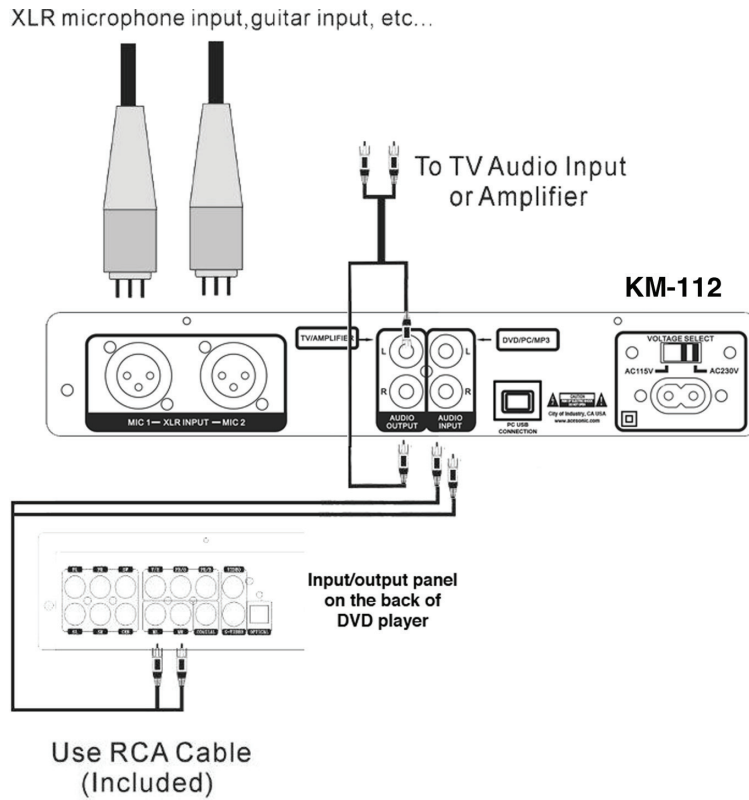
- On your Windows PC, the driver automatically installs when you connect and power up the device. **Note:** Restart your computer to activate the driver.
- Windows will manage the device through the Device Manager utility for setting recording and playback levels and functionality. The KM-112 is a “USB Multimedia Device,” allowing you to select the device and control input and output levels for recording and playback.
- There is a front panel switch (see page, “Front Panel Operation and Functions,” item number 9) to choose

whether the KM-112 will function as an Audio device (mixer) and work with the audio in signals (see rear panel information above), or work as a computer interface, allowing you to record your vocals through the USB connection to your Windows computer.

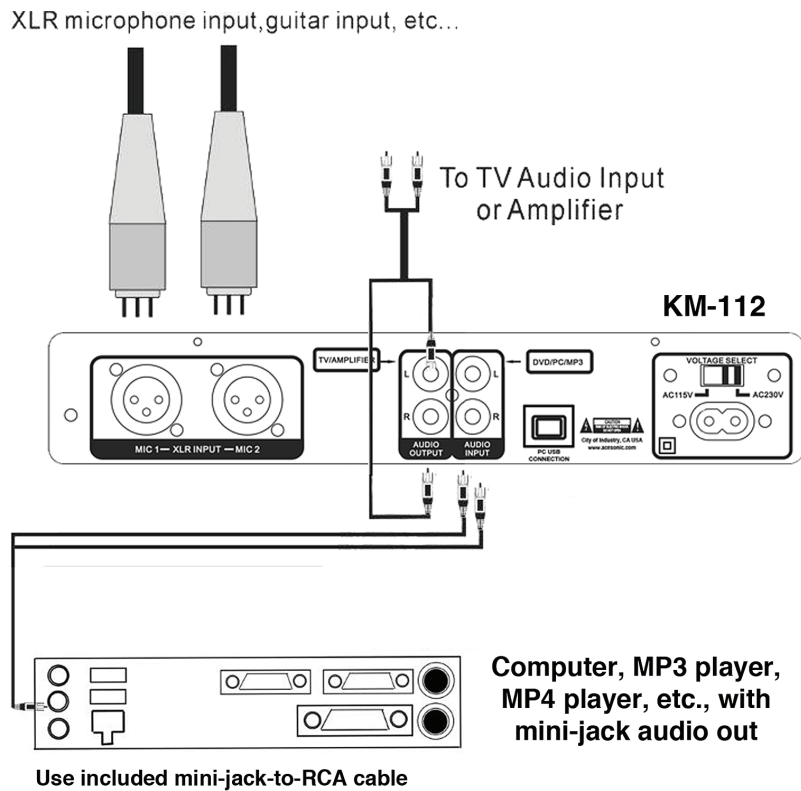
- If you have computer files that have had vocal tracks removed, or came without vocals, you can record your own vocals and overdub the instrumental tracks. Commercial and shareware/freeware multitrack recording software will allow you to record and save tracks in various digital file formats.

Cable Connections and Setup

For DVD Players and Similar Devices with RCA Out

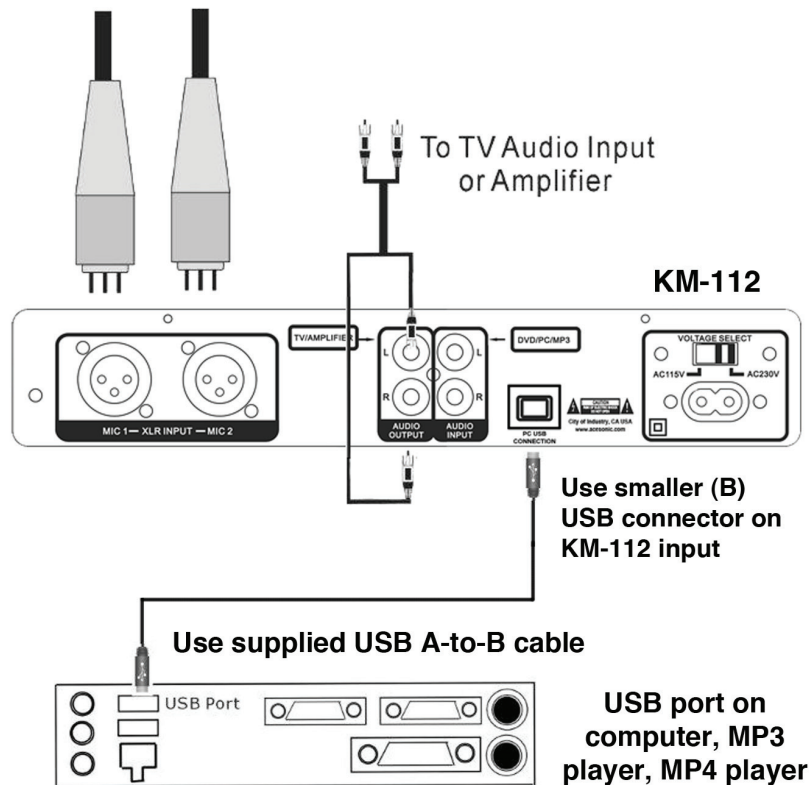


For DVD Players and Similar Devices with Mini-jack Audio Out



For Computers and Digital Devices with USB Ports

XLR microphone input, guitar input, etc...



Troubleshooting

If you are having problems operating the KM-112 unit, or suspect something is wrong with it, please check the troubleshooting list below to resolve any issues of incorrect operation. If you suspect an equipment malfunction and are unable to resolve the problem, please contact the Acesonic service center at (626) 820-0645 or send an e-mail to techsupport@acesonic.com.

Problem	Possible Cause(s)	Solution
Mixer <i>(No sound or lights)</i>	<ul style="list-style-type: none"> • AC adapter not plugged in • Bad connection on rear panel 	<ul style="list-style-type: none"> • Plug in AC adapter • Check rear panel connections
Computer audio <i>(No sound, not recognized)</i>	<ul style="list-style-type: none"> • USB cable not connected • Microphone settings incorrect • Driver not installed • Microphone power intermittent • Windows system conflicts 	<ul style="list-style-type: none"> • Connect USB cable properly • Check microphone settings • See page 4 for instructions • Check microphone • Check your Device Manager

FCC Advisory and Safety Warnings

Mises en garde, précautions et procédures de sûreté



The lightning-with-arrowhead symbol inside a triangle alerts the user that potentially dangerous voltage in the product enclosure may constitute a risk of electric shock.



The exclamation point within a triangle alerts the user to important operating, maintenance, and servicing information in this User Manual.

CAUTION

To reduce the risk of electrical shocks, fire and possible injuries, you should not

- remove screws, buttons, antennae, jacks or any part of the enclosure; or
- expose the product to rain or moisture.

FCC ADVISORY (U.S.A.)

1. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correcting the problem by one or more of the following measures:

- Reorienting and/or relocating the receiving antennae
- Increasing the distance between the radio/TV equipment and the KM-112
- Connecting the radio/TV equipment to an outlet on a different circuit than the one into which the receiver is plugged

- If necessary, consulting the dealer or an experienced radio/TV technician for help

2. **IMPORTANT:** When connecting the KM-112 to audio equipment, use only high-quality, shielded cables such as what is supplied with this product. Follow all installation instructions and do not modify the equipment in any way, as this could void your FCC authorization to use the device in the U.S.

FOR CANADA/POUR LE CANADA

Caution: To prevent electric shock, match the wide blade of the plug to the wide slot, and fully insert.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

This product does not exceed the Class B limits for radio noise emissions from digital devices as set out in the Canadian standard for interference-causing equipment ("Digital Apparatus, ICES-003" from the Department of Communications).

Cet appareil numérique respecte les limites de bruits radio électriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur ("Appareils Numériques, NMB-003" édictée par le Ministre des Communications).

Using Your KM-112 Safely

1. Read and follow these instructions, keep them handy for reference, familiarize yourself with the product's operation and heed all safety warnings.
2. Do not use this product near water, on wet surfaces or in places where moisture may accumulate. Do not expose the device to dripping or splashing, and do not place items filled with liquids – such as vases, beverages, etc. – on top of the device. Clean only with a dry cloth.
3. Do not block any ventilation openings or set device on carpets or rugs. Maintain sufficient room on all sides for airflow.
4. Do not position the device on or near radiators, stoves or other electrical equipment (such as amplifiers) that produce heat.
5. Do not defeat the safety purpose of a polarized or grounding-type plug. A polarized plug has two blades with one wider than the other, while a grounding-type plug has two blades and one prong. The wide blade

and the prong are safety features. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

6. Protect the power cord from being walked on or pinched, particularly where it is plugged in to an electrical socket and the point where it exits from the rear of the device.

7. Only use the attachments and accessories specified by the manufacturer.

8. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer or sold with the device. When using a cart, use caution when moving the cart.

9. Unplug the product during lightning storms or when it will not be used for long periods of time.

10. Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as when the power-supply cord or plug is damaged, liquids have been spilled or objects introduced into the enclosure, the device has been exposed to rain or moisture, the product does not operate normally or it has been dropped.

11. Never push objects of any kind into this product, through jacks or other openings, as they may contact dangerous voltage points or short-circuit components, thus causing fire or electrical shock.

12. This product should be operated only from the type of power source indicated on the product label and in this User Manual. If you are not sure of the type of power supplied to your home, consult your product dealer or local utility.

13. An outside antenna system should not be located in close proximity to overhead power lines, or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, be extremely careful not to touch such power lines or circuits, as contact with them could be fatal.

14. Do not overload wall outlets or extension cord as this can increase the risk of fire, power outages or electrical shock.

15. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with the same characteristics as the original part. Unauthorized substitutions may

result in fire, electric shock or other hazards.

16. Following any servicing or repair of this product, ask the service technician to perform the appropriate safety checks to ensure the product is in proper operating condition.

17. The product should not be mounted to a wall or ceiling except as recommended by the manufacturer, with a mounting accessory recommended by the manufacturer.

18. If your product is not operating correctly or exhibits a marked change in performance, and you are unable to restore normal operation by following procedures in this User Manual, do not attempt to service it yourself. Opening the enclosure may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

NOTE: With the proper care and maintenance, your KM-112 Vocal Mixer with Computer Audio Interface will give you years of dependable, enjoyable use. Make sure you are connecting the device properly to your computer and other audio devices, using good (unfrayed, unbent) cables at all times.

KM-112

Vocal Mixer with Computer Audio Interface

One (1) Year Manufacturer Warranty

Lifetime Technical Support

Designed in U.S.A.

Technical Support: (626) 820-0645

techsupport@acesonic.com

Web site: www.acesonic.com

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