# VocoPro®
## PROFESSIONAL VOCAL SYSTEMS ™
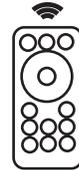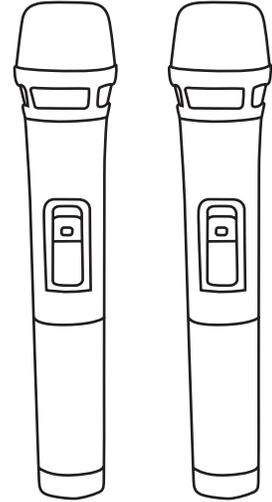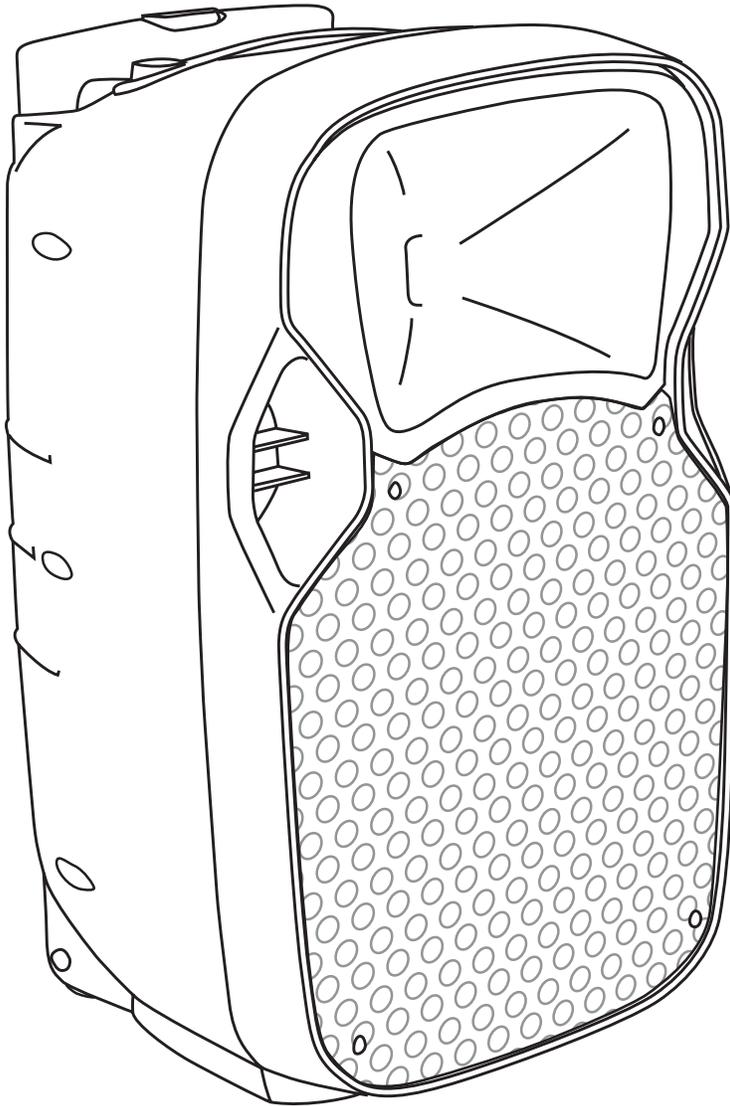
# *K-Cast*

## Worlds First Battery Powered Portable PA with LED Video Projector

o w n e r ' s    m a n u a l

# Table of Contents

# FCC Information

**1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!:** This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Vocopro may void your authority, granted by the FCC, to use this product.

**2. IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable(s) supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the U.S.A.

**3. NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurances that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the owner's manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "Off" and "On", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Use power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter(s).

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300-ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact your local retailer authorized to distribute Vocopro products. If you can not locate the appropriate retailer, please contact Vocopro, 1728 Curtiss Court, La Verne, CA 91750.

**CAUTION**
The apparatus is not disconnected from the AC power source so long as it is connected to the wall outlet, even if the apparatus itself is turned off. To fully ensure that the apparatus is indeed fully void of residual power, leave unit disconnected from the AC outlet for at least fifteen seconds.

**CAUTION:**
**READ THIS BEFORE OPERATING YOUR UNIT**

**1.** To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.

**2.** Install your unit in a cool, dry, clean place - away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, v motors). To prevent fire or electrical shock, do not expose to rain and water.

**3.** Do not operate the unit upside-down.

**4.** Never open the cabinet. If a foreign object drops into the set, contact your dealer.

**5.** Place the unit in a location with adequate air circulation. Do not interfere with its proper ventilation; this will cause the internal temperature to rise and may result in a failure.

**6.** Do not use force on switches, knobs or cords. When moving the unit, first turn the unit off. Then gently disconnect the power plug and the cords connecting to other equipment. Never pull the cord itself.

**7.** Do not attempt to clean the unit with chemical solvents: this might damage the finish. Use a clean, dry cloth.

**8.** Be sure to read the "Troubleshooting" section on common operating errors before concluding that your unit is faulty.

**9.** This unit consumes a fair amount of power even when the power switch is turned off. We recommend that you unplug the power cord from the wall outlet if the unit is not going to be used for a long time. This will save electricity and help prevent fire hazards. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.

**10.** To prevent lightning damage, pull out the power cord and remove the antenna cable during an electrical storm.

**11.** The general digital signals may interfere with other equipment such as tuners or receivers. Move the system farther away from such equipment if interference is observed.

**NOTE:**
Please check the copyright laws in your country before recording from records, compact discs, radio, etc. Recording of copyrighted material may infringe copyright laws.

**Voltage Selector (General Model Only)**
Be sure to position the voltage selector to match the voltage of your local power lines before installing the unit.

110V
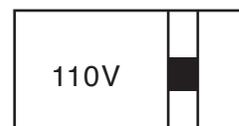
# Listening for a Lifetime

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. VocoPro and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to a higher volume of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:
• Start your volume control at a low setting.
• Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:
• Set the dial and leave it there.
• Pay attention to the different levels in various recordings.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

**Some common decibel ranges:**

| Level | Example |
|---|---|
| **30** | Quiet library, Soft whispers |
| **40** | Living room, Refrigerator, Bedroom away from traffic |
| **50** | Light traffic, Normal Conversation |
| **60** | Air Conditioner at 20 ft., Sewing machine |
| **70** | Vacuum cleaner, Hair dryer, Noisy Restaurant |
| **80** | Average city traffic, Garbage disposals, Alarm clock at 2 ft. |

**The following noises can be dangerous under constant exposure:**

| Level | Example |
|---|---|
| **90** | Subway, Motorcycle, Truck traffic, Lawn Mower |
| **100** | Garbage truck, Chainsaw, Pneumatics drill |
| **120** | Rock band concert in front of speakers |
| **140** | Gunshot blast, Jet plane |
| **180** | Rocket launching pad |

-Information courtesy of the Deafness Research Foundation

# Safety Instructions

## CAUTION
### RISK OF SHOCK

CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Only refer servicing to qualified service personnel.

## Explanation of Graphical Symbols

The lightning flash & arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of danger.

The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.

## WARNING
To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.

1. **Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.

2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.

3. **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.

4. **Follow Instructions** - All operating and use instructions should be followed.

5. **Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

6. **Water and Moisture** - Do not use this unit near water. For example, near a bathtub or in a wet basement and the like.

7. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

7 A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause an overturn.

8. **Ventilation** - The appliance should be situated so its location does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation slots.

9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10. **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11. **Grounding or Polarization** - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

12. **Power-Cord Protection** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. **Cleaning** - Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

14. **Power lines** - An outdoor antenna should be located away from power lines.

15. **Nonuse Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

16. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

17. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:

A. The power supply cord or plug has been damaged; or
B. Objects have fallen into the appliance; or
C. The appliance has been exposed to rain; or
D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
E. The appliance has been dropped, or the enclosure damaged.

18. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

**Note:**
To CATV system installer's (U.S.A.): This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected as close to the point of cable entry as practical.

# Welcome

And thank you for purchasing the **K-Cast** from VocoPro, your ultimate choice in Karaoke entertainment! With years of experience in the music entertainment business, VocoPro is a leading manufacturer of Karaoke equipment, and has been providing patrons of bars, churches, schools, clubs and individual consumers the opportunity to sound like a star with full-scale club models, in-home systems and mobile units. All our products offer solid performance and sound reliability, and to reinforce our commitment to customer satisfaction, we have customer service and technical support professionals ready to assist you with your needs. We have provided some contact information for you below.

## VocoPro
1728 Curtiss Court
La Verne, CA 91750
**Toll Free: 800-678-5348**
TEL: 909-593-8893
FAX: 909-593-8890

**VocoPro Company Email Directory**

**Customer Service & General Information**
info@vocopro.com

**Tech Support**
techsupport@vocopro.com

Remember Our Website
Be sure to visit the VocoPro website **www.vocopro.com** for the latest information on new products, packages and promos. And while you're there don't forget to check out our Club VocoPro for Karaoke news and events, chat rooms, club directories and even a KJ Service directory!

We look forward to hearing you sound like a PRO, with VocoPro, the singer's ultimate choice.

## FOR YOUR RECORDS

Please record the model number and serial number below, for easy reference, in case of loss or theft. These numbers are located on the rear panel of the unit. Space is also provided for other relevant information

**Model Number**

**Serial Number**

**Date of Purchase**

**Place of Purchase**

# Getting Started

WHAT'S IN THE BOX:

- K-CAST
- 2 Microphones
- K-CAST Remote
- 1 Screen
- 2 Short Poles
- 2 Long Poles
- 2 Poles with Metal Collars
- 10 Elastic Ties
- 4 Outdoor Metal Stakes
- Power Cord
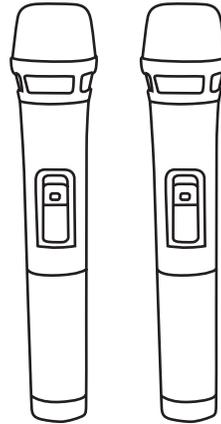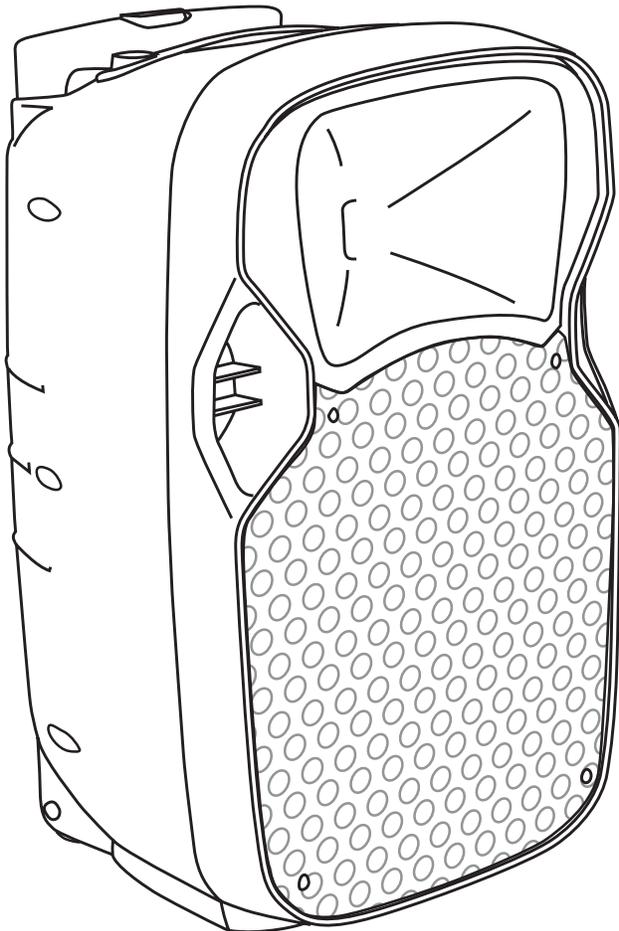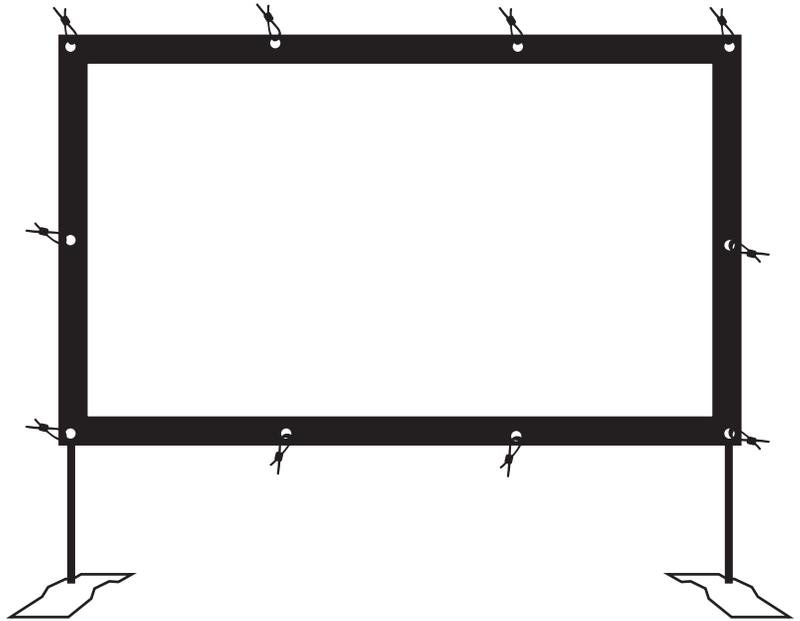
# Assembling the Screen

The K-Cast comes with a projection screen to better show the image. The projection screen has 6 poles that fit together, with the screen held to the poles by elastic ties.

Before starting, identify:
    1 screen
    2 short poles
    2 long poles
    2 poles with metal collars
    4 metal brackets (2 L-brackets and 2 T-brackets)
    10 elastic ties
    4 outdoor metal stakes
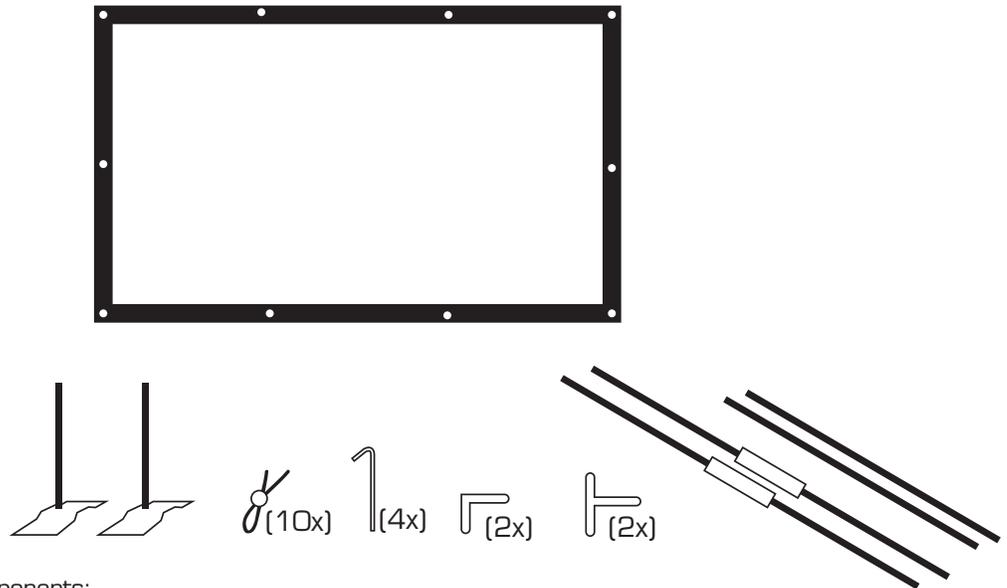
First step is to arrange the components:
• Lay the four metal brackets on the floor
• Insert one short pole into one of the metal collared poles and lay it between the two T-brackets on the bottom.
• Insert one short pole into one of the metal collared poles and lay in between the two L-brackets on the top.
• Lay one long pole on the left side.
• Lay one long pole on the right side.
• Lay the screen across the rectangle that is formed by the poles
• Push the poles, L-brackets, and T-brackets together so they fit snugly.
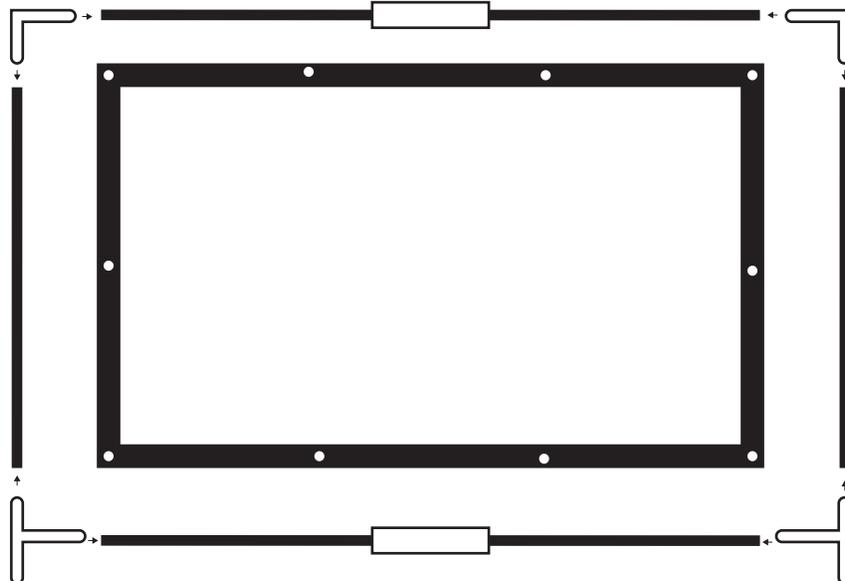
Second step is to secure the screen:
• Use the elastic ties to secure the screen to the poles.
• To secure the screen to the poles: insert a tie through the metal grommet, wrap around the pole and pull the fastener tight.
• To ensure the screen is flat, secure the corners ties in this order:
    o Top Left Corner
    o Bottom Right Corner
    o Top Right Corner
    o Bottom Left Corner
• Once the corners are secure, attach the middle ties. Follow this order to make sure the screen is flat:
    o Top middle left
    o Bottom middle right
    o Top middle right
    o Bottom middle left
    o Side left
    o Side right
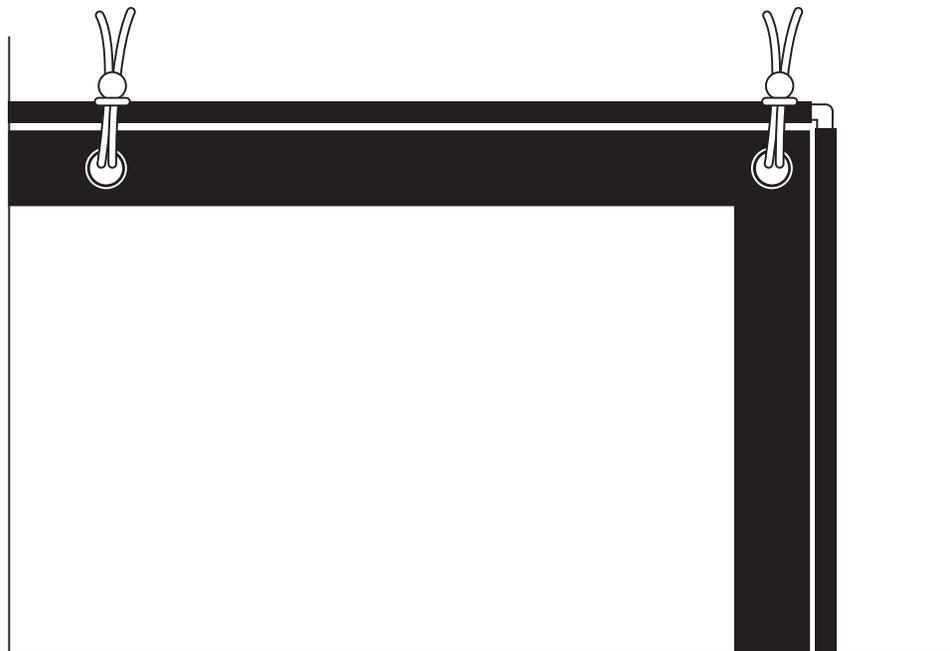
Third step is to set it in place:
• Once the ties secure the screen to the poles, rotate the fasteners behind the screen.
• Place the screen in area that you wish to use it in and attach the bottom feet so it stands freely.
• If using outside, use the 4 outdoor metal stakes to secure the metal feet to the ground. Insert one stake into each of the two holes located on the metal feet.
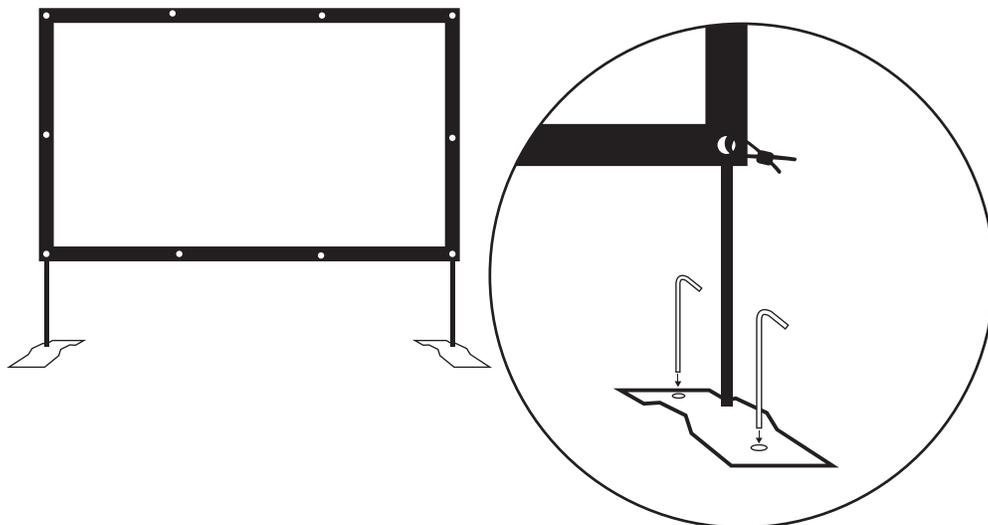
# Assessing the Set Up Menu

**The Set Up Menu has options that govern color, language, time, and sound. Below are the options that are available:**

**Picture:**
- Picture Mode – This alters the picture according to 3 preset and 1 user-based setting.
  - o Dynamic
  - o Standard
  - o Mild
  - o Use
    - Contrast
    - Brightness
    - Color
    - Sharpness
- Color Temp – This alters the hue of the projected image according to 3 preset and 1 user-based setting.
  - o Cool
  - o Medium
  - o Warm
  - o User –
    - Red
    - Green
    - Blue
- Aspect Ratio – This changes the ratio of width and height of the projected image.
  - o Auto - Detected according to the video being played
  - o 4:3
  - o 16:9
- Noise Reduction – This attempts to enhance video quality playback through filters of varying strength.
  - o Off
  - o Low
  - o Medium
  - o High
  - o Default

**Option:**
- OSD Language – This option changes the default onscreen language of the menus. This will not translate file names on USB flash drives into the OSD Language,
- Restore Factory Default – This changes all menu options back to original factory defaults.
- Blending – This changes the level of translucence of the menus.
  - o Off
  - o Low
  - o Medium
  - o High
- Mirror LRUD – This rotates the image Left, Right, Upside-down, and Right-side up.
  - o Note: If accidentally changed, press the Right arrow on the remote control to continue to cycle through options until image is correct.
- OSD Duration – This sets the length of time the On Screen Display is shown.
  - o 0, 5, 10 15 seconds

**Time:**
- Clock – This is used to set and change the system time
- Off Time – This is used to shut the unit off at a designated time or times.
- On Time – This is used to program the unit to power on at a designated time or times. Further settings can designate Input and Volume upon startup.
- Sleep – Use this to have the unit shut off after a programmed amount of time.
- Auto Sleep – This shuts the unit off after a preset amount of inactivity.

# Set Up Menu continued.

**Sound:**

- •Sound Mode – This alters the audio output according to 4 preset and 1 user-based setting.
  - o Standard
  - o Music
  - o Movie
  - o Sports
  - o User –
    - Treble
    - Bass
- • Balance – This changes the ratio of Left and Right audio channels.
- • Auto Volume – This activates the audio normalization feature. Used to even out quiet and loud portions of audio so there is a uniform volume output.
- • Surround – This simulates surround sound audio through the use of two preset EQs.
  - o Surround
  - o SRS Tru Surround
- • EQ – This is a 5 Band equalizer that is entirely user based.
  - o 120 Hz
  - o 500 Hz
  - o 1.5 KHz
  - o 5 KHz
  - o 10 KHz

# Getting Connected

**Using the Microphones**:

    **Wireless** – The receiver for the two wireless microphones is built into the K-Cast. The microphones have a range of up to 150ft. Use the Mic Volume knob located on the back of the K-Cast to alter the microphone audio up and down.

    When setting up for a performance, set the Master Volume knob to approximately 50%. Then use the Mic Volume knob to set the maximum volume of the performance. Once the Mic Volume is at the appropriate level, turn the Music Volume up until it is properly balanced with the Mic Volume.

    Once mic and music are balanced, set the Master Volume knob to the appropriate level for the performance.

    Use the Mic Effect knob to apply Echo effect to the microphone audio to suit your sound.

    Use the Microphone Hi Frequency knob to clear up "muddy" vocals.
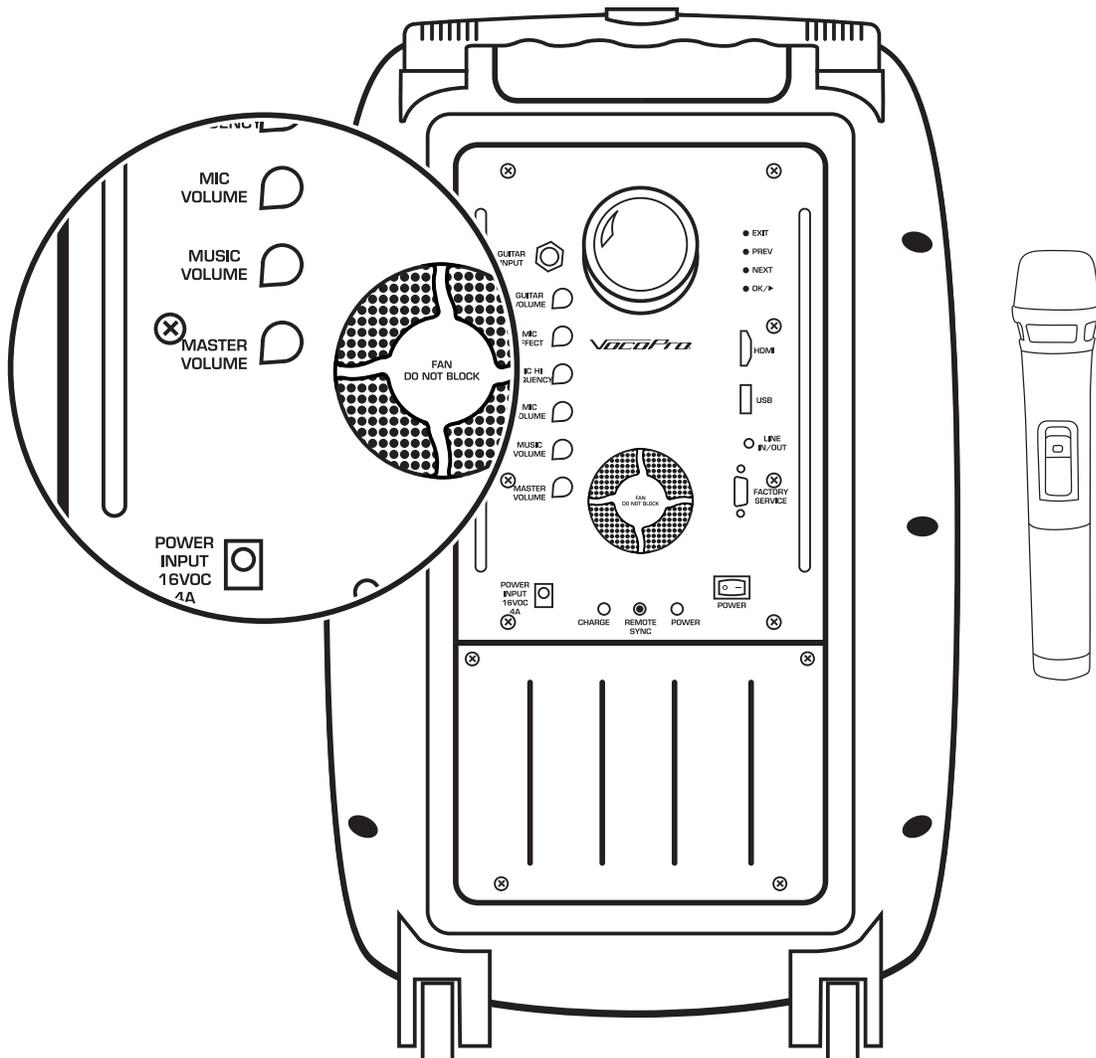
# Getting Connected cont.

**Using the Microphones**:

> **Wired** – A wired microphone can be connected to the Guitar Input located on the back of the K-Cast. The Mic Effect knob will have no influence on microphone or instruments plugged into the Guitar Input.

GUITAR
INPUT

GUITAR
VOLUME

MIC
EFFECT

MIC HI
FREQUENCY

EXIT
PREV
NEXT
OK/▶

HDMI

USB

LINE
IN/OUT

FACTORY
SERVICE

FAN
DO NOT BLOCK

MIC HI
FREQUENCY

MIC
VOLUME

MUSIC
VOLUME

MASTER
VOLUME

POWER
INPUT
16VOC
4A

POWER

CHARGE    REMOTE    POWER
          SYNC
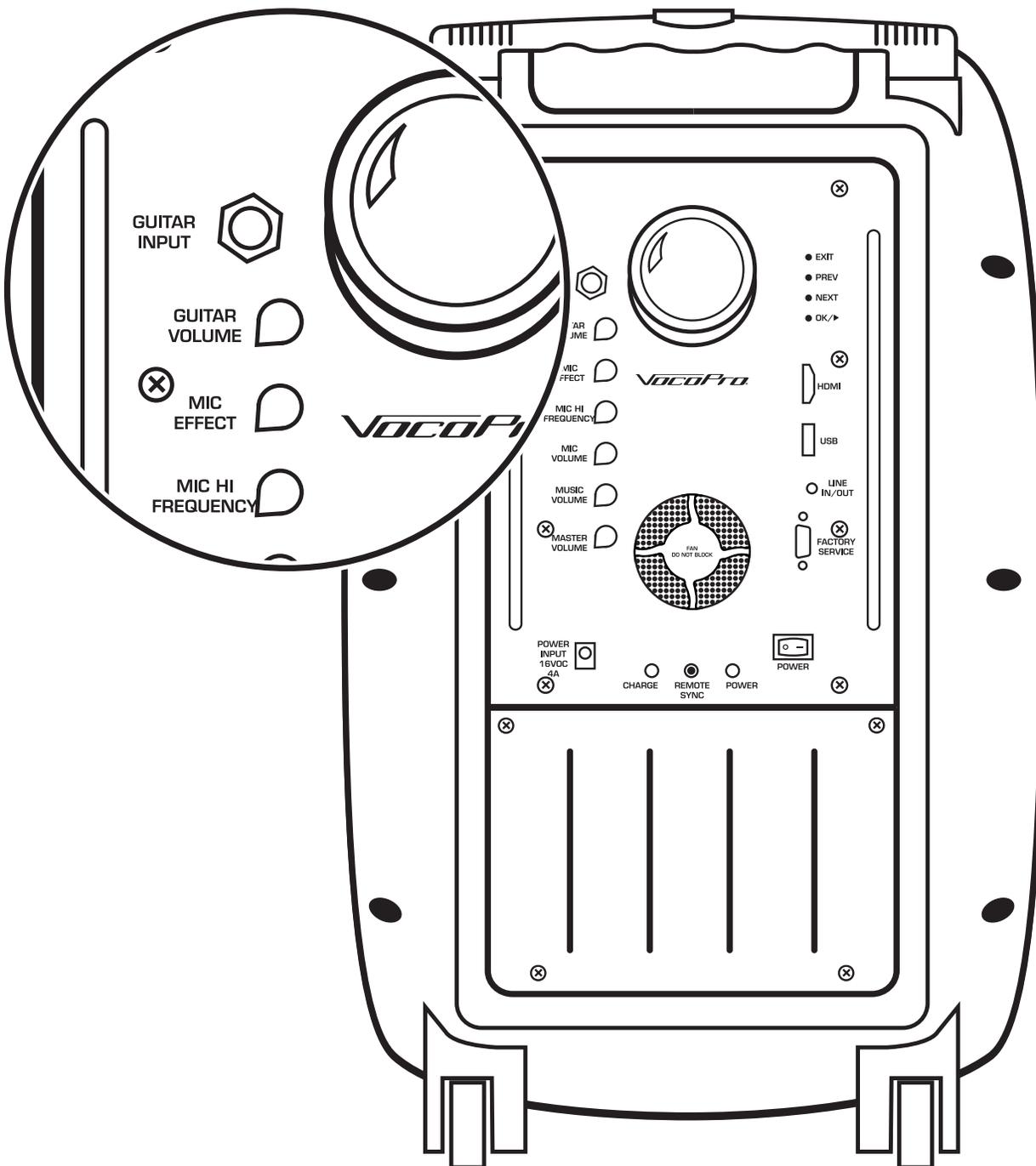
**Using the HDMI In:**

The HDMI In allows HD video/audio to be played back through the K-Cast. HD sources can include, but are not limited to: laptops, desktop computers, smartphones, or streaming devices such as ROKUR or ChromecastT.

To view the HDMI input signal, use the remote control to change the input source to HDMI. Press the Input Select button to see the various inputs available.

**Using the USB In**:

The USB In allows USB flash drives with digital video and audio files to be played back through the K-Cast. The USB flash drive must be formatted in FAT or FAT32 file systems and cannot exceed a storage size of 32GB.

Once the drive is inserted into the machine, use the remote control to navigate to the type of file you wish to play. The K-Cast automatically sorts the files according to type: movie, music, photos, or text files. The compatible file types can be found on the Specifications page.

**Using the Line In/Out:**

The Line In/Out jack doubles as an input and an output. The Line Input function is accessed by plugging an audio source with a 1/8th stereo output such as an mp3 player or smartphone into the Line In/Out jack. Audio played from the source will be heard through the K-Cast speaker.

The Line Output function is accessed by using a 1/8th stereo cable to connect from the Line In/Out jack into the input of a speaker, amplifier, or recorder. Audio played from the K-Cast will be heard through the external device that is connected.
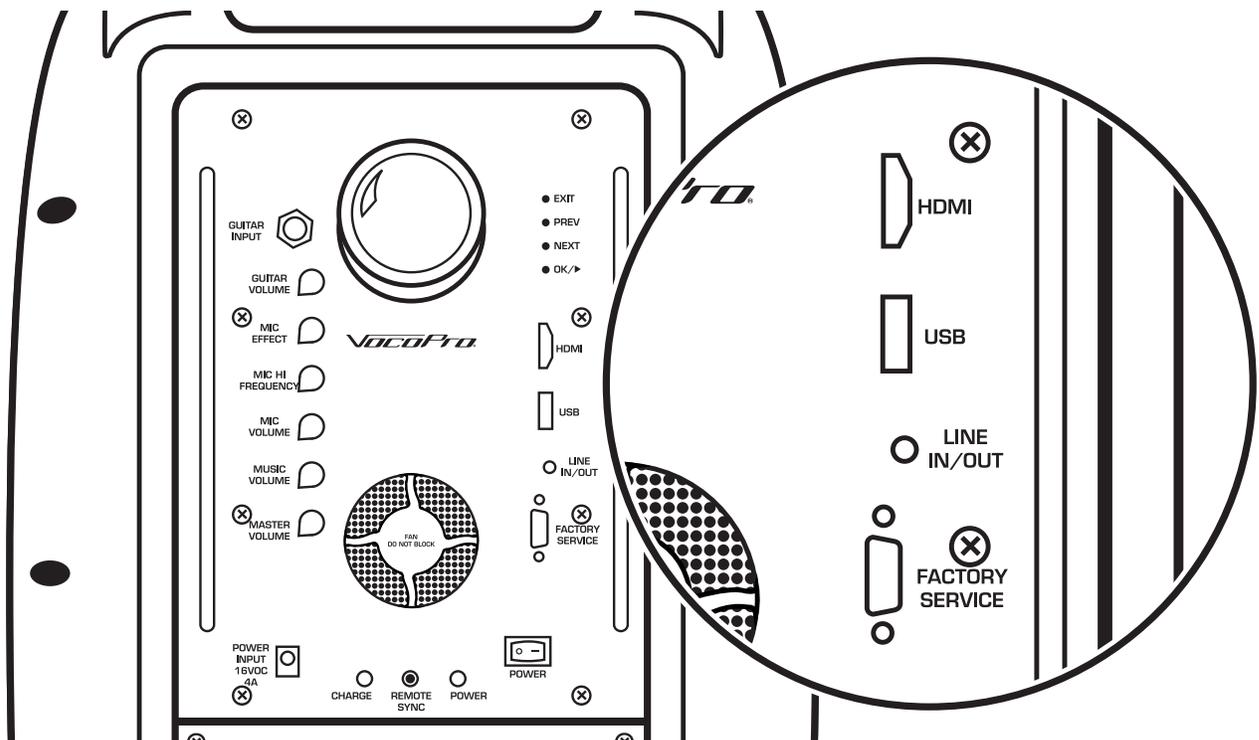
# Getting Connected cont.

**Using the Lens Focus:**

The Lens Focus is used to adjust the image focus to match the distance to the screen/wall. The focus will twist to bring the focus in and out.

If the K-Cast is closer to the screen/wall, turn the Lens Focus counter-clockwise to bring the image into focus.

If the K-Cast is further from the screen/wall, turn the Lens Focus clockwise to bring the image into focus.
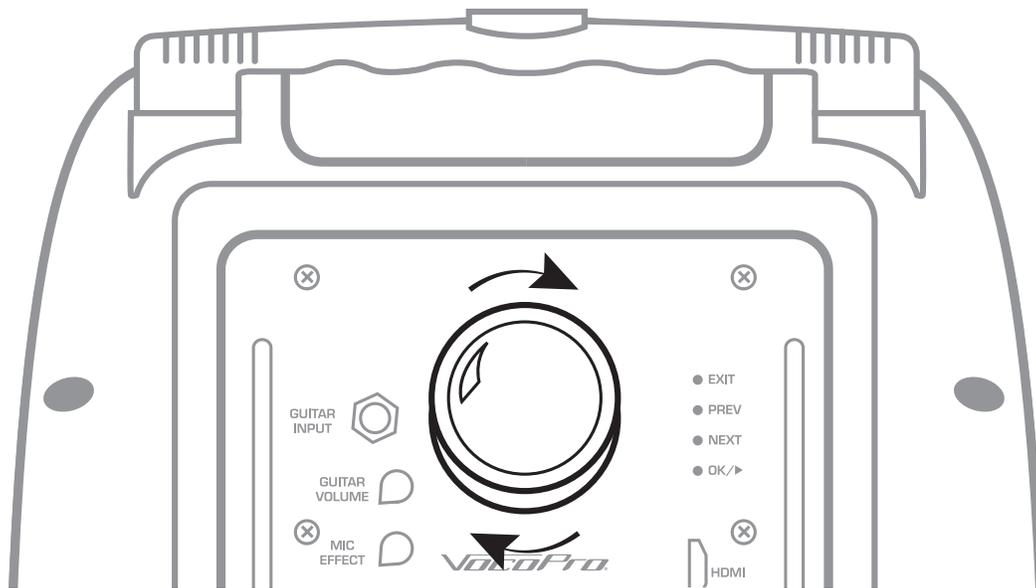
# Descriptions and Functions

**K-Cast:**

1. Lens Focus – Use this to adjust the image focus. It will need to be adjusted depending on the distance from the screen and size of the image. Refer to Getting Started for more details.

2. Guitar Input – This jack accepts a signal from an instrument like a guitar or bass. A wired microphone will work if the associated Guitar Volume is turned up.
   a. Guitar Volume – Alters the input volume of the Guitar Input.

3. Mic Effect – This applies an Echo effect to the wireless microphones.

4. Mic Hi Frequency – This affects High frequency response of the wireless microphone audio. Turn this knob to the right to add clarity to a "muddy" vocal range.

5. Mic Volume – This is the microphone volume control. Set this volume first when finding the upper volume limit for the performance to ensure a proper balance between microphone and music audio.

6. Music Volume – This is the music volume control. Set this volume second once the appropriate microphone volume is found to ensure a proper balance between microphone and music audio.

7. Master Volume – This is the master volume. It controls the combine output level of microphone and music. Use this to raise or lower the speaker audio to suit the situation.

8. Exit – Use this to exit menus selections when changing the system settings.

9. Prev – Use this to revert to the last track played.

10. Next – Use this to advance to the next track to be played.

11. OK – This confirms selections in the menu or playlists.

12. HDMI In – This input allows HD audio/video sources such as laptop, computers, or streaming devices like Roku, or ChromeCast. Refer to Getting Started for more details

13. USB In – This input allows USB flash drives up to 32GB in size to be connected. Refer to Getting Started for more details.

14. Line In/Out – This 1/8th inch jack doubles as an input and an output jack. Refer to Getting Started for more details.

15. Factory Service – This jack is for factory service and is not intended for users.

16. Power Switch – This toggles power to the K-Cast.

17. Power LED – This displays the power status of the machine and internal battery.

18. Remote Sync – This is used to resync the remote control to the system. Refer to Getting Started for more details.

19. Charge LED – This indicates the charging status of the internal battery.

20. Power Input – This is where the associated power adapter is connected. Only use adapters with the correct rating of: 16V(DC)/4A.

GUITAR
INPUT

GUITAR
VOLUME

MIC
EFFECT

MIC HI
FREQUENCY

MIC
VOLUME

MUSIC
VOLUME

MASTER
VOLUME

a

VocoPro

FAN
DO NOT BLOCK

POWER
INPUT
16VDC
4A

CHARGE

REMOTE
SYNC

POWER

EXIT

PREV

NEXT

OK/▶

HDMI

USB

LINE
IN/OUT

FACTORY
SERVICE

POWER
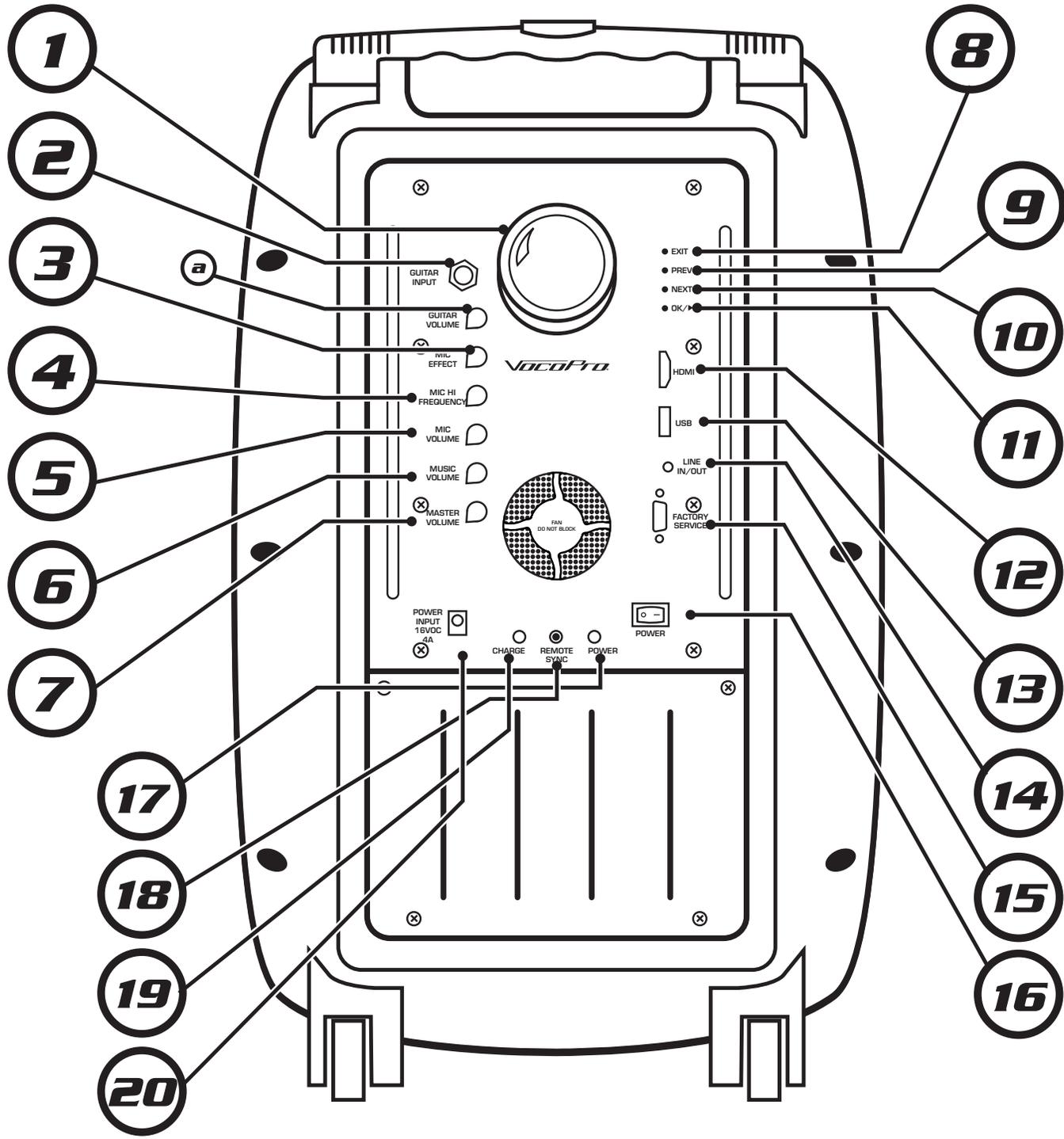
# Descriptions and Functions Cont.

**Remote Control:**

1. Input Select – Use this to switch between HDMI and USB input sources.

2. Brightness Control – This controls the output of the LED projector. There is a High, Low, and an OFF setting.

3. Exit – Returns to the home screen when in a menu is open.

4. Directional Arrows/Enter – This is used to navigate menus and to make selections.

5. L/R – This changes the audio balance between Left-Mono (L), Right-Mono (R), and Stereo (LR)

6. Settings – This enters the Set Up Menu. The following menus are available: Picture, Option, Time, and Sound. Refer to Accessing The Set Up Menu for more details.

7. Playback controls – Use these to control playback of the show.
   a. Play/Pause
   b. Stop
   c. Next
   d. Previous
   e. Rewind
   f. Fast-Forward
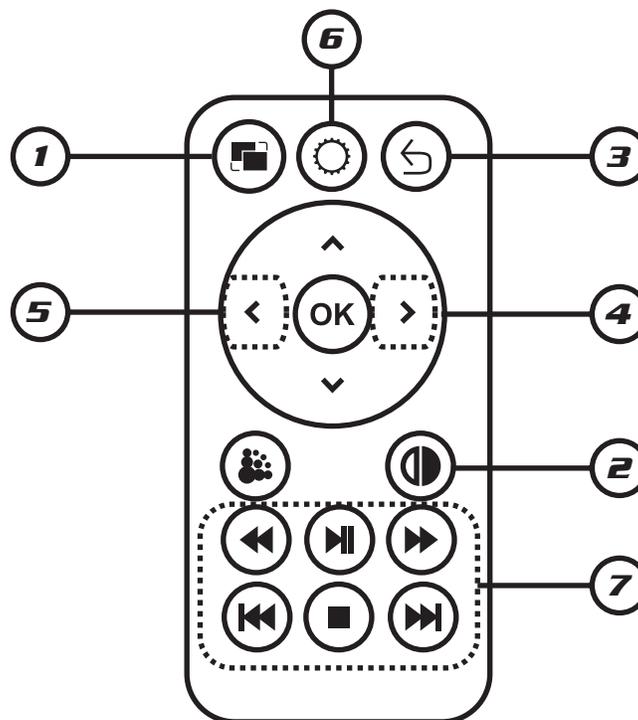
# Specifications

Resolution: 800 x 480

Signal/Noise Ratio: ≥86DB

Contrast: 5000:1

Microphone Type: Wireless UHF Dynamic Microphone - 900MHz Band

Brightness: 3000 Lumens

Bulb: LED

Remote Control: 2.4G wireless

Bulb lifetime: 50,000 hours

Woofer: 12"

Tweeter: 5"

Speaker Frequency: 20HZ-20KHZ

Projection Screen Size: 60-200 Inch

Input Power: 16V/4A

Battery: 12V/9AH

Play Time: 3-4 hours

Charging Time: 4-5 hours

Projection distance: 40 -112 Inches

Image Aspect Ratio: 16:9/4:3

Connection: HDMI/USB/ Audio output/input

Photo format: jpg, jpeg, bmp, png

Music format: mp3, wma, aac

Video format: avi, MP4, ts/trp, mkv, mov, mpg, dat, vob, rm, rmvb

File support: txt

Net weight: 30 Lbs

Dimensions 15.4"x 13.8"x 25"

# Notes

**PROFESSIONAL VOCAL SYSTEMS** ™

K-Cast Owner's Manual
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www.vocopro.com