

# VOCALIST® LIVE 2

## Vocal Harmony and Effects Processor



**Digitech**

**Owner's  
Manual**



The symbols shown above are internationally accepted symbols that warn of potential hazards with electrical products. The lightning flash with arrowpoint in an equilateral triangle means that there are dangerous voltages present within the unit. The exclamation point in an equilateral triangle indicates that it is necessary for the user to refer to the owner's manual.

These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service. Disconnect the unit during storms to prevent damage.

## **ELECTROMAGNETIC COMPATIBILITY**

This unit conforms to the Product Specifications noted on the **Declaration of Conformity**. Operation is subject to the following two conditions:

- this device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

Operation of this unit within significant electromagnetic fields should be avoided.

- use only shielded interconnecting cables.

## **WARNING FOR YOUR PROTECTION PLEASE READ THE FOLLOWING:**

KEEP THESE INSTRUCTIONS

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

THE APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING LIQUID AND NO OBJECT FILLED WITH LIQUID, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

CLEAN ONLY WITH A DRY CLOTH.

DO NOT BLOCK ANY OF THE VENTILATION OPENINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

DO NOT INSTALL NEAR ANY HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES, OR OTHER APPARATUS (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.

ONLY USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER.

UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Use only with the cart stand, tripod bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**POWER ON/OFF SWITCH:** The Power switch used in this piece of equipment DOES NOT break the connection from the mains.

**MAINS DISCONNECT:** The plug shall remain readily operable. For rack-mount or installation where plug is not accessible, an all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated into the electrical installation of the rack or building.

## DECLARATION OF CONFORMITY

Manufacturer's Name: DigiTech®  
Manufacturer's Address: 8760 S. Sandy Parkway  
Sandy, Utah 84070, U.S.A.

declares that the product:

Product name: Vocalist® Live 2  
Product option: all (requires Class II power adapter that conforms to the requirements of EN60065, EN60742, or equivalent.)

conforms to the following Product Specifications:

Safety	EN 60065
EMC	EN 55103-1
	EN 55103-2

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC as amended by Directive 93/68/EEC.

Vice-President of Engineering - MI  
8760 S. Sandy Parkway  
Sandy, Utah 84070, U.S.A.  
Date: February 1, 2007

European  
Contact: Your local DigiTech Sales and Service Office or

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Ph: (801) 566-8800  
Fax: (801) 568-7583

## Warning

**For your protection, please read the following:  
Important Safety Instructions**

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Do not use this apparatus near water.
5. Clean only with dry cloth.
6. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
8. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
9. Unplug this apparatus during lightning storms or when unused for long periods of time.
10. No user serviceable parts inside. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
11. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
12. Refer to labels on the unit, including bottom cover, or other markings and pertinent information.

## Warranty

We at **DigiTech**<sup>®</sup> are very proud of our products and back up each one we sell with the following warranty:

1. The warranty registration card must be mailed within ten days after purchase date to validate this warranty.
2. DigiTech warrants this product, when used solely within the U.S., to be free from defects in materials and workmanship under normal use and service.
3. DigiTech liability under this warranty is limited to repairing or replacing defective materials that show evidence of defect, provided the product is returned to DigiTech WITH RETURN AUTHORIZATION, where all parts and labor will be covered up to a period of one year. A Return Authorization number may be obtained from DigiTech by telephone. The company shall not be liable for any consequential damage as a result of the product's use in any circuit or assembly.
4. Proof-of-purchase is considered to be the burden of the consumer.
5. DigiTech reserves the right to make changes in design, or make additions to, or improvements upon this product without incurring any obligation to install the same on products previously manufactured.
6. The consumer forfeits the benefits of this warranty if the product's main assembly is opened and tampered with by anyone other than a certified DigiTech technician or, if the product is used with AC voltages outside of the range suggested by the manufacturer.
7. The foregoing is in lieu of all other warranties, expressed or implied, and DigiTech neither assumes nor authorizes any person to assume any obligation or liability in connection with the sale of this product. In no event shall DigiTech or its dealers be liable for special or consequential damages or from any delay in the performance of this warranty due to causes beyond their control.

**NOTE:** The information contained in this manual is subject to change at any time without notification. Some information contained in this manual may also be inaccurate due to undocumented changes in the product or operating system since this version of the manual was completed. The information contained in this version of the owner's manual supersedes all previous versions.

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# Introduction

Congratulations on your purchase of the Vocalist™ Live 2. The Vocalist Live 2 is the world's first processor that automatically generates live multi-part vocal harmony by analyzing guitar chord progressions. Armed with patent pending *musIQ*™ Harmony Technology (which includes both *musIQ* note detection and *musIQ* harmony generation), the VL-2 gives you accurate vocal harmonies even with complicated songs because only Vocalist Live tracks guitar chords, along with your voice.

## **The Vocalist® Live 2 Features**

- *musIQ* harmony technology.
- One or two voices of automatic harmony with selectable voicings (Unison 1, Unison 2, High, Higher, Low, Lower), generated based on incoming music from your guitar.
- Selection of lead voice effects (Reverb, Compressor, and Enhance effects).
- Built-in guitar tuner.
- Built-in microphone preamp.
- Next-generation vocal pitch detection, pitch shifting, and humanization processing.
- +48V phantom power.
- 24-bit/44.1kHz audio quality.

## **About *musIQ*™ Technology**

*musIQ* is a revolutionary technology that eliminates the need to enter key and scale information into the product as it listens to the notes/chords played on a guitar and makes sure that the harmony voices fit with the music. Real-time processing discerns the individual notes and key signatures that are played to automatically generate appropriate vocal harmonies that complement the lead vocal. With *musIQ*, you can focus on your live singing and playing performance, and discard song programming once and for all.

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## Included Items

Before you get started, please make sure that the following items have been included:

- The Vocalist® Live 2
- PS0913B Power Supply
- This owner's manual
- Warranty Card

The utmost care was taken while your Vocalist Live 2 was being manufactured. Everything should be included and in perfect working order. If anything is missing, contact the factory at once. Please help us become acquainted with you and your needs by completing your warranty card or registering online at [www.digitech.com](http://www.digitech.com). It is your safeguard should a problem arise with your Vocalist Live 2.

**Important safety tip:** Always turn on amplifiers **AFTER** all other connections are made to the Vocalist Live 2 and **AFTER** the Vocalist Live 2 is powered up.

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# A Guided Tour of the Vocalist® Live 2

## **Overview**

The Vocalist® Live 2 is a revolutionary voice processor that creates musically correct harmonies for your singing voice that automatically change to fit with the current guitar chord and key of the music you have been playing.

## **Quick Start**

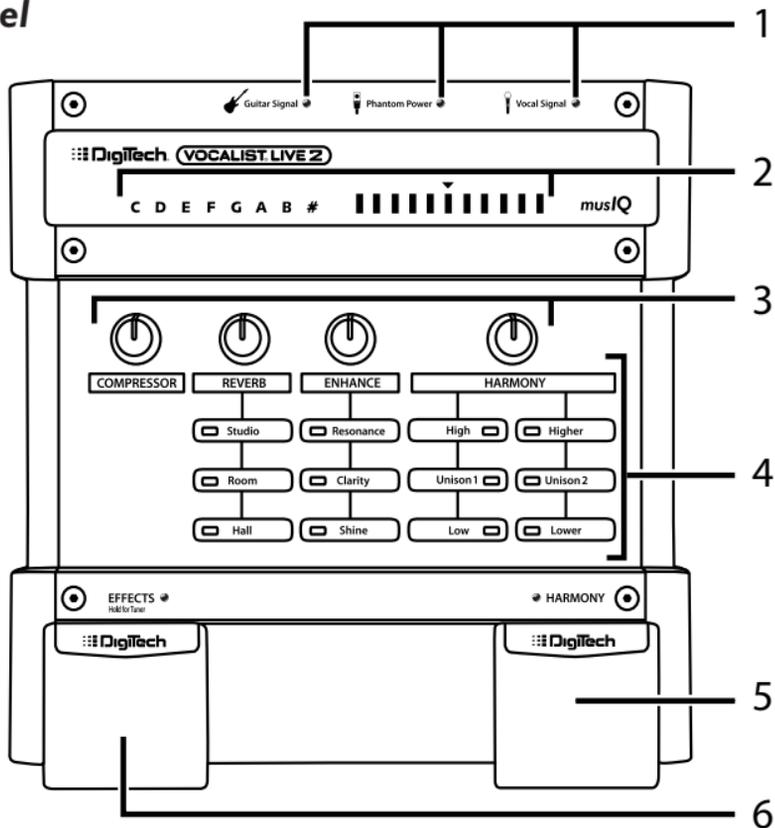
It's a good idea to read this brief manual completely, but if you want to start using the Vocalist Live 2 right away, go to the Getting Started section on page 9.

For more information on what the knobs and buttons do, refer to The Vocalist Live 2 Controls section on page 16.

To find out about using the tuner, see the Guitar Tuner section on page 19.

To locate and identify the various controls, inputs, and outputs, see the Front Panel and Rear Panel sections on pages 4 and 7.

# Front Panel



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## 1. **Indicator LEDs (Guitar Signal, Phantom Power, Vocal Signal)**

The indicator LEDs show the status of Phantom power (off or on) and the incoming signal levels for the guitar and microphone. The **Guitar Signal** and **Vocal Signal LEDs** light green when a signal is present, amber when the incoming signal is approaching clip (overload), and red when the incoming signal clips. For more information, see Setting Levels on the Vocalist® Live 2 on page 21.

## 2. **Guitar Tuner LEDs**

When the guitar tuner is active, the letter and # LEDs indicate what note is being played. If the # LED lights up in addition to a letter LED, that means the note is a sharp note (like A#). The bar of eleven LEDs shows whether the note being played is slightly sharp (right of triangle), slightly flat (left of triangle), or in tune (directly below triangle).

## 3. **Knobs**

### **Compressor**

Adding the right amount of compression smooths out incoming vocal dynamics and creates a more even vocal performance. Turn this knob clockwise to increase compression, or counter-clockwise to decrease compression. See page 17 for more information about compression.

### **Reverb**

Sets the amount of reverb that is applied to the incoming microphone signal. Turn this knob clockwise to increase reverb, or counter-clockwise to decrease reverb. Select the type of reverb with the Reverb buttons, described on page 18.

### **Enhance**

Enhance effects apply equalization and “sweetening” effects to the lead microphone signal that improve intelligibility and presence. Turn this knob clockwise to increase Enhance effects, or counter-clockwise to decrease Enhance effects. Select the type of Enhance effect with the Enhance buttons, described on page 17.

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### **Harmony Mix**

Adjusts the level of the harmony vocals relative to the incoming lead vocal (your voice). Turn this knob clockwise to increase harmony levels and decrease the lead vocal, or counter-clockwise to decrease harmony levels and increase the lead vocal.

#### **4. *Select Buttons***

These enable and disable reverbs, effects, and harmonies. See the following pages for more information:

**Reverb** - Page 18.

**Enhance** - Page 17.

**Harmony** - Page 16.

#### **5. *Harmony Footswitch***

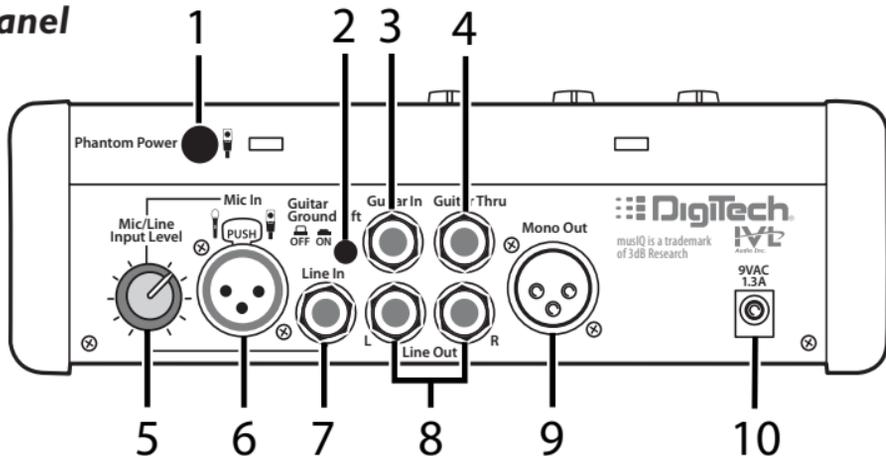
Press this footswitch to enable or disable the vocal harmonies.

#### **6. *Effects/Tuner Footswitch***

Press this footswitch to enable or disable any selected effects (reverb, compressor, etc.). Press and hold this footswitch to enable the guitar tuner. Press the Effects/Tuner Footswitch again to disable the guitar tuner. See page 19 for more information about the guitar tuner.

**NOTE: It is important that your guitar is properly tuned in order to get the best sounding harmonies. Alternate tunings such as DADGAD are fine, as long as the tuning system used specifies a frequency of 440 Hz for A (A440), and it is based on the chromatic scale (12 notes per octave). Micro-tonal scales are not supported.**

## Rear Panel



### 1. **Phantom Power**

Enables 48 volt phantom power on the XLR mic input.

**Note:** Phantom power is normally only needed with condenser microphones and should never be used with ribbon microphones. To avoid damaging the microphone, please consult your microphone documentation to ensure phantom power is applied only when appropriate.

### 2. **Guitar Ground Lift**

Eliminates most “hum” problems. If you hear a humming sound or buzz coming from your amp or P.A., try pressing this button.

### 3. **Guitar In**

Connect a guitar directly to this high-impedance input. Note that there is no loss of quality between the Guitar in and Guitar Thru jacks.

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#### 4. **Guitar Thru**

Connect a guitar amplifier or powered speaker directly to this output.

#### 5. **Mic/Line Input Level**

This knob adjusts the gain of the Mic and Line inputs. Turn clockwise to increase gain, or counter-clockwise to decrease gain. If the **Vocal Signal LED** is turning red while you sing, you need to decrease the Mic gain.

#### 6. **Mic In**

Connect a dynamic or condenser microphone to this XLR input. This input is the lead voice for the Vocalist<sup>®</sup> Live 2.

#### 7. **Line In**

Connect a line input source (mixer, mic preamp, etc.) to this input. When connected to a source, this input is the lead voice for the Vocalist Live 2, and disables the Mic In XLR input.

#### 8. **Line Out L/R**

Connect these balanced/unbalanced outputs to a mixer, powered speakers or P.A. system if a stereo mix is desired. Only vocal, harmonies, and vocal effects are heard from the **Line Outputs**. Harmonies sent through these outputs are panned slightly to the left (**Line Out L**) and right (**Line Out R**).

#### 9. **Mono Out**

Connect this XLR balanced output to a powered speaker or mixer if a mono mix is desired. Only vocal, harmonies, and vocal effects are heard from this output.

#### 10. **Power Input**

Connect only the DigiTech<sup>®</sup> PS0913B power supply to this jack.

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# Getting Started

Before connecting the Vocalist<sup>®</sup> Live 2, make sure that the power to your amplifier is off and that the Vocalist Live 2 is plugged into the wall and powered on. There is no power switch on the Vocalist Live 2. To turn the Vocalist Live 2 on or off, connect or disconnect the included PS0913B power supply from the Power Input jack.

## ***Connect the Microphone, Guitar, and P.A. or Mixer***

1. Plug a microphone into the Vocalist Live 2 **Mic In** jack.
2. If you need phantom power, press the **Phantom Power** switch on the Vocalist Live 2 back panel. The **Phantom Power LED** will illuminate.  
**Note:** Phantom power is normally only needed with condenser microphones, and should never be used with ribbon microphones. To avoid damaging the microphone, please consult your microphone documentation to ensure phantom power is applied only when appropriate.
3. Plug your guitar into the Vocalist Live 2 **Guitar In** jack.
4. Make sure your guitar amplifier is turned off and the volume level is turned all the way down.
5. Connect the Vocalist Live 2 **Guitar Thru** to your amplifier's input or the P.A. system.
6. Make sure your P.A. or mixer is turned off and the volume levels are turned all the way down.
7. Plug the Vocalist Live 2 **Left** and **Right Line Outputs** into your P.A. system or mixer. Or, if you are only using a single channel or mono amplification system, plug only the Vocalist Live 2 **Mono output** into the P.A. system or mixer.

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## Set the Vocalist® Live 2 Controls

1. Turn the Compressor, Reverb, and Enhance knobs all the way down (counter-clockwise).
2. Turn the Harmony Mix knob to the 11 o'clock position.
3. Power up the Vocalist® Live 2 by connecting the PS0913B power supply.
4. Press the **High** button so that it is lit.
5. Press the **HARMONY FOOTSWITCH** so that the **HARMONY LED** just above it is lit.

## Adjust Levels and Tune Your Guitar

1. Observe the **Guitar Signal LED** while playing your guitar. Adjust the output level of your guitar until the **Guitar Signal LED** lights green or amber most of the time. (For more information about setting levels, see page 21.)
2. Perform the obligatory “Check 1-2” or sing into the mic while gradually turning up the Vocalist Live 2 **Mic/Line Input Level** knob until the **Vocal Signal LED** lights amber most of the time. (For more information about setting levels, see page 21.)
3. Press and hold the **EFFECTS FOOTSWITCH** until the **TUNING LEDs** light up. Tune each string until the center (green LED below the triangle) LED illuminates for each string, indicating it's in tune.

**NOTE:** It is important that your guitar is properly tuned in order to get the best sounding harmonies. Alternate tunings such as **DADGAD** are fine, as long as the tuning system used specifies a frequency of 440 Hz for **A (A440)**, and it is based on the chromatic scale (12 notes per octave). Micro-tonal scales are not supported.

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4. Turn on your amplifier and gradually turn it up until you reach a comfortable listening level.
  5. Turn on your P.A. system and gradually turn it up until you reach a comfortable listening level.
  6. While playing a chord on your guitar, sing a note. You should hear your guitar and your voice, plus a harmony voice. If not, repeat the steps above or consult the Troubleshooting section on page 22.

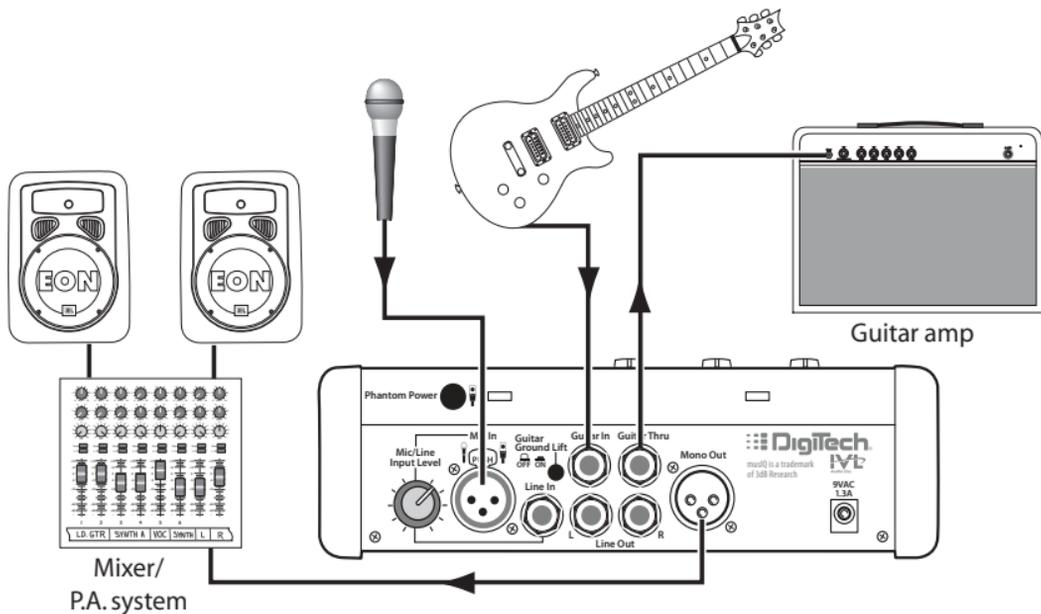
### ***Set up the Mixer for Stereo Operation (If Using Two Channels of a Mixer)***

1. Turn the Vocalist<sup>®</sup> Live 2 **Mic/Line Input Level** knob completely counter-clockwise.
2. Set the mixer channels' faders to 0dB.
3. Set the mixer's master fader to its minimum position (no output signal).
4. Set the pan controls on the selected mixer channels hard left and hard right.
5. While singing, gradually turn up the Vocalist Live 2's **Mic/Line Input Level** knob until the **Vocal Signal LED** lights amber most of the time, and red during the loudest parts only. (For more information about setting levels, see page 21.)
6. Gradually bring the mixer's master fader up until you reach your desired level.

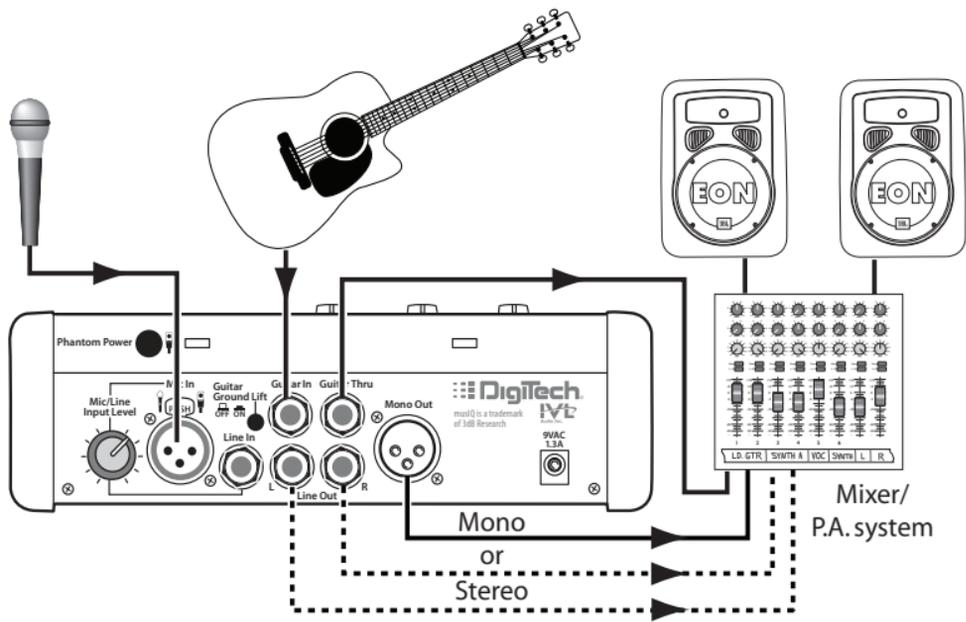
# Common Setups

There are several ways to set up the Vocalist™ Live 2. Some useful setups are shown here.

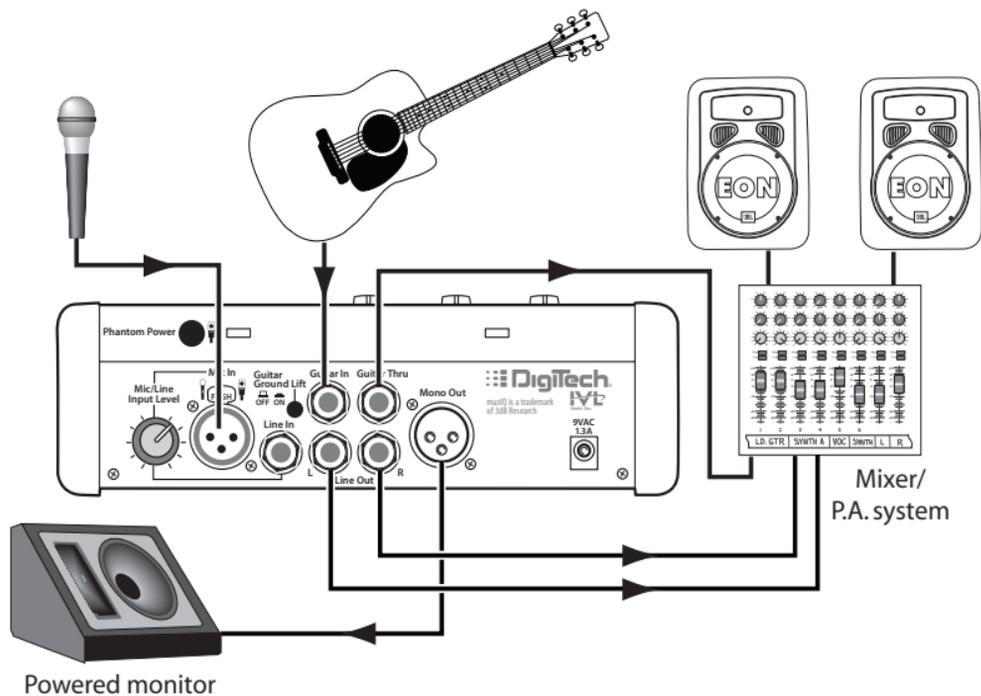
## Guitar and Microphone In/Guitar Amp and P.A. Out (Mono)



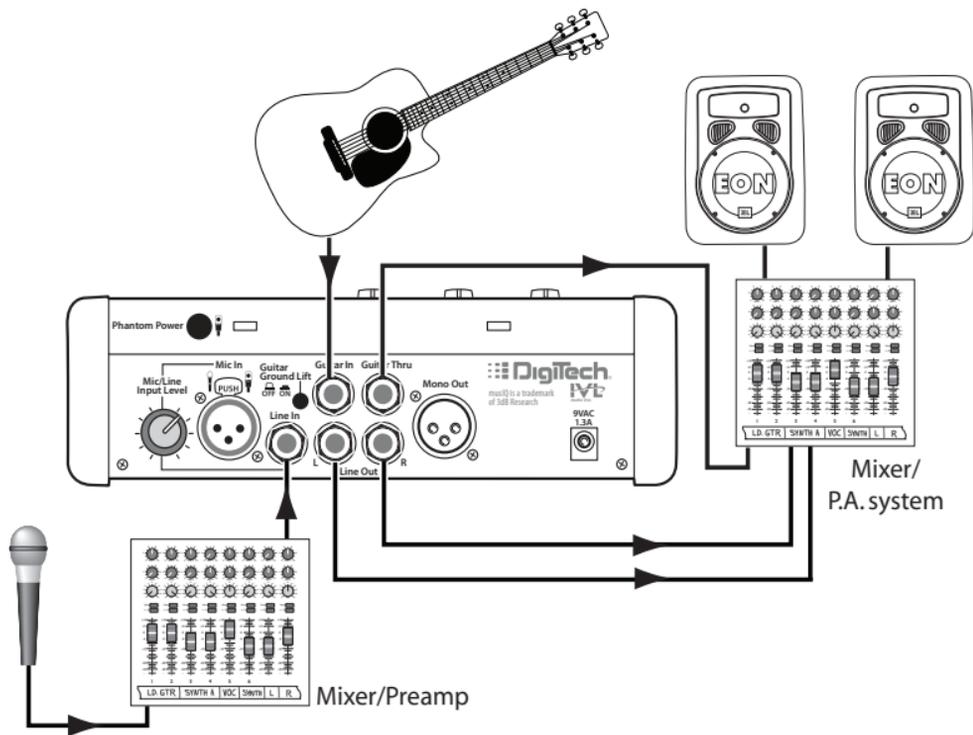
## Guitar and Microphone In/P.A. Out (Mono or Stereo)



## Guitar and Microphone In/P.A. and Powered Monitor Out



## Guitar and Mixer or Preamp in/P.A. Out



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# The Vocalist<sup>®</sup> Live 2 Controls

## ***Harmony Mix Knob***

This adjusts the mix of lead vocal (your voice) and the harmony voices. If you turn this knob all the way to the left, you'll only hear your voice. If you turn it all the way to the right, you'll only hear the harmonies the Vocalist<sup>®</sup> Live 2 produces when you sing.

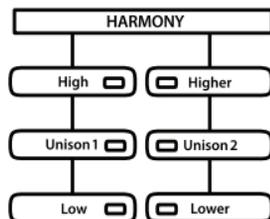
Typically, you'll want to set this knob near the 11 o'clock position, making the harmonies slightly quieter than your voice. This is usually the best mix for enhancing a song chorus with vocal harmonies. For quieter "ghost" harmonies, turn the Harmony knob counter-clockwise. For harmonies that are louder than the lead vocal, turn the Harmony knob clockwise.

## ***Harmony Select Buttons***

These select the harmony voices that are added to your voice. A harmony can be either higher, on pitch (Unison), or lower than your voice.

The six **HARMONY SELECT** buttons on the front panel are arranged as two vertical columns of three buttons each. The harmony voices you can choose are:

Column 1	Column 2
High = a third above	Higher = a fifth above
Unison 1	Unison 2
Low = a third below	Lower = a fifth below



When Unison 1 is on (and Unison 2 is off), it doesn't track notes in a chromatic scale, so it

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produces a tight double sound, even if you're singing slightly out of pitch. When Unison 2 is on (and Unison 1 is off), it tracks chromatic notes. This can help you sing on pitch better. When both Unison voices are selected at the same time, neither tracks a chromatic scale, and they are slightly detuned to provide a thicker unison effect.

You can select one or two harmony voices at any time. The harmony voices have pitch and time decoupling, as well as a slight “gender” effect, to distinguish them from the lead vocal.

If two **HARMONY SELECT** buttons are lit and a third one is pressed, the most recently selected one of the current two is kept. No more than two **HARMONY SELECT** buttons may be lit at any given time.

**Note:** The terms “fifth” and “third” are used somewhat loosely. Harmonies produced are usually centered around musical fifths and thirds, but may vary slightly depending on the chords and chord progressions.

## ***Compressor Knob***

The **COMPRESSOR** knob adjusts the amount of compression applied to the incoming vocal. Compression tends to smooth out the vocal performance, and results in a more even tone for the lead vocal. Turning this control all the way to the left defeats the compressor, turning it all the way to the right provides maximum compression.

**Warning:** Because increasing compression amplifies lower signal levels, turning the **COMPRESSOR** knob too high may result in feedback depending on your P.A. volume levels, speaker placement, and other possible factors that are beyond the scope of this manual.

## ***Enhance Knob and Buttons***

Enhance effects apply EQ and filtering to the incoming vocal signal, which adds presence and polish to your voice. There are three kinds of Enhance effects:

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**Resonance** - Enhances deeper voices by adding low and mid-frequency filters.

**Clarity** - Enhances all voices by adding mid-frequency filters.

**Shine** - Adds extra sheen to voices by emphasizing high frequencies.

Press an **ENHANCE** button to select it. Turn the **ENHANCE** knob clockwise to increase the amount of filtering applied to your voice, or turn it counter-clockwise to reduce the amount of filtering.

## **Reverb Knob and Buttons**

Using reverb on an incoming voice gives the listener a sense that the material is being performed in an actual room or hall. It is this similarity to actual acoustic spaces that makes reverberation a useful tool in live music. The Vocalist<sup>®</sup> Live 2 features three reverbs to add depth and warmth to your vocal performance.

**Studio** - simulates a studio plate reverb with fairly short decay and lots of diffusion.

**Room** - simulates a mid-sized room with about one second of decay.

**Hall** - simulates a large performance hall with several seconds of decay and high diffusion.

Press a **REVERB** button to select it. Turn the **REVERB** knob clockwise to increase the amount of reverb, or turn it counter-clockwise to reduce the amount of reverb.

## **Effects Footswitch**

This footswitch turns the Compressor, Reverb, and Enhance effects on or off. While each of these three effects can be turned on or off and adjusted individually, the **EFFECTS** footswitch activates or deactivates all of them simultaneously.

When the LED above the **EFFECTS** footswitch is illuminated, the effects are on. When the LED is turned off, the effects are turned off.

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## Harmony Footswitch

This footswitch turns the harmonies on or off. While one or two harmonies can be selected with the **HARMONY SELECT** buttons, the **HARMONY** footswitch activates or deactivates any selected harmonies simultaneously.

When the LED above the **HARMONY** footswitch is illuminated, the harmonies are on. When the LED is turned off, the harmonies are turned off.

## Guitar Tuner

Since the Vocalist<sup>®</sup> Live 2 relies on accurate incoming notes to generate its harmony voicings, it is imperative that your guitar be in tune. The integrated digital tuner of the Vocalist Live 2 makes tuning your guitar fast and easy. To activate the guitar tuner, simply press and hold the Effects footswitch until the Tuner LEDs illuminate.

The **Effects LED** flashes to indicate that the tuner is turned on. To begin tuning, play a note on your guitar. The Display shows the note being played. The **Tuner LEDs** indicate whether you are sharp or flat. The right five LEDs indicate the note is sharp and should be tuned down. The left five LEDs indicate the note is flat and should be tuned up. The center green LED below the green triangle indicates the note is in tune. The guitar signal output is muted while the tuner is active. Exit the tuner by pressing the Effects footswitch.

**Tip:** The Vocalist Live 2 “remembers” about 30 seconds of music while you play to determine the proper harmonies. Entering and exiting the tuner clears this memory. This can be useful when you’re switching between songs with radically different chord progressions.

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## Some Usage Notes

- The guitar signal is only present in the **Guitar Thru** jack. It is not present in the **Line Out** or **Mono Out** jacks. This enables you to process your guitar using other guitar pedals and effects.
- Do not hook up any other effects pedals to your guitar prior to plugging it into the Vocalist Live 2, as this could affect vocal harmony generation. The only thing between your guitar and the Vocalist Live 2 should be the guitar cable. Use the **Guitar Thru** to connect your effects and stomp boxes.
- Both the **Mono Out** and stereo **L/R Line Outs** can be used simultaneously, allowing you to monitor vocals locally using the **Mono Out** while sending a stereo feed to the main mixer/P.A.

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# Setting Levels on the Vocalist<sup>®</sup> Live 2

## Setting the Vocal Level

It is recommended you set your vocal level by adjusting the **Mic/Line Input Level** knob on the rear panel so that the **Vocal Signal LED** is amber during loud vocal sections and only briefly turns red on the very loudest vocal sections. The Vocalist<sup>®</sup> Live 2 will normally prevent the vocal harmonies from clipping, even when the LED is red, but for optimum voice quality the LED should turn red only briefly or not at all.

## Setting the Guitar Level

Ideally the **Guitar Signal LED** should be green or amber while playing. There is no guitar input level control, but most electric guitars send their signal at a level appropriate for the Vocalist Live 2. If you have a volume control on your guitar (for example, an acoustic guitar with a pre-amp built in), you should adjust the volume so that the **Guitar Signal LED** is green or amber most of the time while playing.

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# Troubleshooting

## **I don't hear any sound coming from the Vocalist® Live 2.**

- Make sure the power supply is plugged in to both the Vocalist Live 2 and the power outlet.
- Make sure the guitar amp, P.A. system, or mixer is plugged in and turned on.
- Make sure the guitar amp, P.A. system, or mixer volume levels aren't turned all the way down.
- Make sure the guitar volume isn't turned all the way down, and the microphone isn't turned off (if it has an on/off switch).
- Make sure the Mic/Line Input Level knob isn't turned all the way down.
- Make sure all the cables are completely plugged into their proper places (see pages 9 through 15 for instructions and diagrams).

## **The harmonies aren't tracking properly.**

- Tune the guitar with the Vocalist Live 2 tuner (see page 19).
- Make sure you're not in Tuner mode while singing.

## **The guitar signal is too quiet.**

- Turn up the volume on your guitar.
- Make sure the guitar cable is properly connected to the guitar and the Vocalist Live 2.

## **The guitar signal is too loud.**

- Turn down the volume on your guitar.

## **The lead vocal is too quiet.**

- Turn up the Mic/Line Input Level knob.
- If you're using a P.A. system or mixer, turn up the channel that the Vocalist Live 2 is connected to, or turn up the master level (volume) controls.
- Try singing closer to the microphone.

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**The lead vocal is too loud.**

- Turn down the Mic/Line Input Level knob.
- If you're using a P.A. system or mixer, turn down the channel that the Vocalist® Live 2 is connected to, or turn down the master level (volume) controls.

**I don't hear any harmonies.**

- Make sure the Harmony footswitch is pressed so that the LED just above it is lit.
- Make sure the Harmony Mix knob is set somewhere between the 11 o'clock position and the 5 o'clock position.

**The harmonies are too loud.**

- Turn the Harmony Mix knob counter-clockwise to lower the harmony level and increase the lead vocal level.

**The harmonies are too quiet.**

- Turn the Harmony Mix knob clockwise to increase the harmony level and decrease the lead vocal level.

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# Specifications

A/D/A Converter:	24-bit high performance audio
Sampling Frequency:	44.1 kHz
Simultaneous Harmonies:	2
Dimensions:	8.25" Length x 9.375" Width x 2.125" Height
Unit Weight:	2.3 lbs.

## Analog Input Connections

Guitar Input:	1/4" Unbalanced (TS)
Guitar Input Impedance:	3 Megohms
Line In:	1/4" Line Unbalanced (TS)
Mic Input Impedance	1000 Ohms

## Analog Output Connections

Left/Right Outputs:	1/4" Balanced/Unbalanced
Mono Output:	XLR
Left/Right Output Impedance:	500 Ohms per side
Mono Output Impedance:	1000 Ohms per side
Maximum Output:	+14dBu Unbalanced, +20dBu Balanced

## Power Requirements

US and Canada:	120 VAC, 60 Hz Adapter: PS0913B-120
Japan:	100 VAC, 50/60 Hz Adapter: PS0913B -100
Europe:	230 VAC, 50 Hz Adapter: PS0913B -230
UK:	240 VAC, 50 Hz Adapter: PS0913B -240



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