Before using this unit, carefully read the sections entitled "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (leaflet "USING THE UNIT SAFELY" and Owner's Manual). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature of your new unit, read Owner's Manual in its entirety. This manual should be saved and kept on hand as a convenient reference.
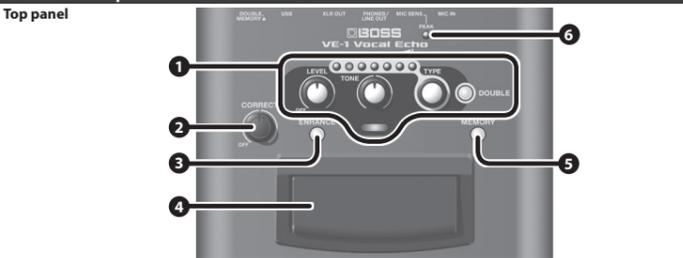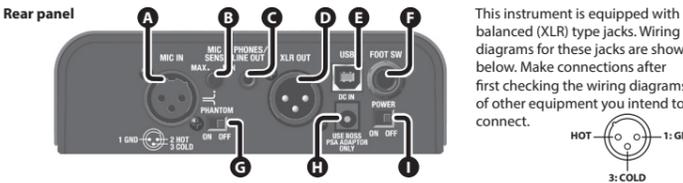
Main Features

Just connect a mic and sing.
Pro-quality effects in a compact body (echo, double-tracking, pitch correction, enhance) will add beautiful resonance and spaciousness to your voice.
The VE-1 supports your vocals in any situation from street live performance to studio recording.

Panel Description

Top panel

Name	Explanation
ECHO section	Adjusts the echo that is applied to the vocal (direct sound).
[LEVEL] knob	Adjusts the level of the echo.
[TONE] knob	Adjusts the tonal character of the echo.
[TYPE] knob	Selects the type of echo. ➡ Refer to **"Echo types"**
ECHO TYPE indicator	The indicator lights according to the type of echo that's selected by the [TYPE] knob. ➡ Refer to **"Echo types"**
❶ [DOUBLE] button	If you turn this on (lit green), a double-tracking effect is produced. If you hold down the [DOUBLE] button for two seconds or longer, you'll be able to specify the delay that is applied to the echo. ➡ Refer to **"Delay and Pitch Correction Settings"**
	Double-tracking effect This is an effect in which the same person overdubs the same melody during the recording process, adding depth to the vocal.
Status indicator	The indicator color shows the echo on/off status.

Status indicator:

Indicator	Explanation
Unlit	Echo off
Blue	Echo on

*When the battery runs low, the status indicator blinks.

Name	Explanation
❷ [CORRECT] knob	Corrects inaccuracies in pitch (pitch correction). Turning the [CORRECT] knob toward the right makes the correction speed faster. By turning the knob all the way to the right, you can produce a mechanical-sounding voice. You can also transform the vocal by giving it a female or male character, and specify the Reference pitch. ➡ Refer to **"Delay and Pitch Correction Settings"** Refer to **"Settings of the VE-1"**
❸ [ENHANCE] button	Smoothes-out inconsistencies in the input volume so that the vocal has better definition.

Setting	Button	Explanation
OFF	Unlit	No enhancement
LIGHT	Green	Slight enhancement
BRIGHT	Red	Strong enhancement

Name	Explanation
❹ Pedal	Switches echo, pitch correction, and double-tracking on/off. *Enhance is not switched on/off.
❺ [MEMORY] button	Three different sets of knob and button settings can be saved and recalled. ➡ Refer to **"Switching or Saving the Knob and Button Settings (MEMORY Function)"**
❻ PEAK indicator	Indicates the mic input level.

PEAK indicator:

Indicator	Explanation
Green	Input level is low.
Orange	Input level is appropriate.
Red	Input level is high.

Rear panel

This instrument is equipped with balanced (XLR) type jacks. Wiring diagrams for these jacks are shown below. Make connections after first checking the wiring diagrams of other equipment you intend to connect.

HOT — 1: GND
3: COLD
2: HOT

Name	Explanation
Ⓐ MIC IN jack	Connect a mic here.
Ⓑ [MIC SENS] knob	Adjusts the input sensitivity of the mic connected to the MIC IN jack.
Ⓒ PHONES/LINE OUT jack	Connect headphones or a speaker here. This jack outputs the same audio signal as the XLR OUT jack.
Ⓓ XLR OUT jack	Connect a mixer or monitor amp here. This jack outputs the same audio signal as the PHONES/LINE OUT jack.
Ⓔ USB port	Use a USB cable to connect this to your computer. This connection lets you record your voice into the computer, or to listen to the computer play back via the VE-1. ➡ Refer to **"Connecting the VE-1 to a Computer"**
Ⓕ FOOT SW jack	Connect a footswitch here. You can use the footswitch to switch the DOUBLE or the MEMORY. ➡ Refer to **"Connecting a Footswitch"**
Ⓖ [PHANTOM] switch	Turns phantom power on/off. ➡ Refer to **"Precautions concerning use of phantom power supply"**
Ⓗ DC IN jack	This jack is for connecting an AC adaptor (PSA series; sold separately). *Use only the specified AC adaptor (PSA series), and connect it to an AC outlet of the correct voltage.
Ⓘ [POWER] switch	This switches the power on and off.

Turning the Power On/Off

Once everything is properly connected, be sure to follow the procedure below to turn on their power. If you turn on equipment in the wrong order, you risk causing malfunction or equipment failure.

1. Turn on the power of the VE-1.

If you're using batteries, install four AA batteries, taking care that their polarity is correct.

* Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.

* This unit is equipped with a protection circuit. A brief interval (a few seconds) after turning the unit on is required before it will operate normally.

2. Power-on any equipment that is connected to the PHONES/LINE OUT jack or the XLR OUT jack.

When turning the power off, minimize the volume of all devices connected to the VE-1, turn off their power, and finally turn off the power of the VE-1.

* To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.

Applying Echo

1. Connect a mic to the MIC IN jack.

If you're using a condenser mic, turn the [PHANTOM] switch "ON."

2. While vocalizing into the mic, use the [MIC SENS] knob to adjust the input sensitivity.
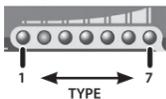
Adjust the sensitivity so that the PEAK indicator lights orange. If the input level is too high, the PEAK indicator lights red.

* You must adjust the input sensitivity accurately.

3. Press the pedal to make the status indicator light blue.

4. Use the [TYPE] knob to select the type of echo.

5. Use the [LEVEL] knob to adjust the level of the echo.

6. Vocalize into your mic.

Echo is applied to the vocal.

Echo types

Increasing the TYPE value makes the echo effect stronger.

TYPE 1 — 7

Delay and Pitch Correction Settings

Here's how to adjust the delay that's applied to the echo, and make pitch correction (GENDER) settings.

1. Hold down the [DOUBLE] button for two seconds or longer.

The VE-1 enters delay/pitch correction settings mode, and the [DOUBLE] button is lit red.

2. Use the knobs and buttons to make delay and pitch correction settings.

Setting	Knob/button	Explanation	
DELAY LEVEL	[LEVEL] knob *	Delay level	
FEEDBACK	[TONE] knob	Amount of delay repeats	
DELAY TIME	[TYPE] knob	Delay time	The [DOUBLE] button blinks in time with the delay time.
	[DOUBLE] button	Specify the delay time by repeatedly pressing the [DOUBLE] button at the desired interval.	
GENDER	[CORRECT] knob	Gender Turning the knob toward the left produces a more masculine voice; turning it toward the right produces a more feminine voice.	

* If the echo level is "OFF," the delay level also turns off.

4. Hold down the [DOUBLE] button for two seconds or longer to exit the settings mode.

Switching or Saving the Knob and Button Settings (MEMORY Function)

You can save three sets of the VE-1's knob and button settings, and switch between them as your song progresses.

Switching Memories

You can switch memories by pressing the [MEMORY] button or the pedal.

Using the [MEMORY] button to switch memories
Press the [MEMORY] button to select the desired memory (color).

Memory	Button
A	Red
B	Orange
C	Green
Normal	Unlit

Using the pedal to switch memories

1. Hold down the pedal for two seconds or longer.

The [MEMORY] button blinks slowly, cycling at one-second intervals between memories A–C and normal (manual).

2. When the [MEMORY] button reaches the color of the desired memory, take your foot off the pedal.

The [MEMORY] button lights, and the corresponding memory is selected.

Saving a Memory

1. Long-press the [MEMORY] button.

The button blinks slowly.

Memory	Button
A	Red
B	Orange
C	Green

2. Press the [MEMORY] button to specify the destination memory (color) in which you want to save the settings.

The button blinks rapidly, and then remains lit.

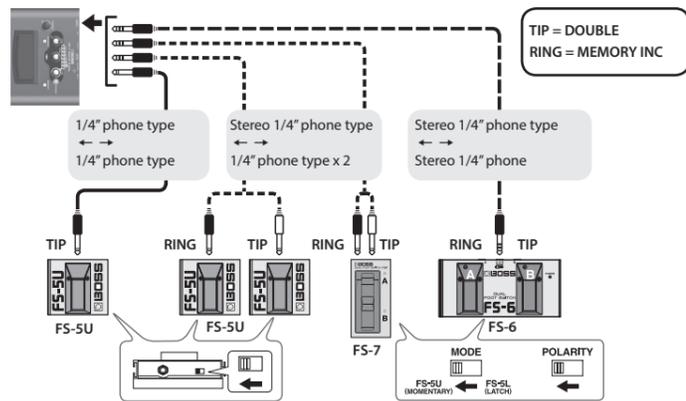**3. Once again, long-press the [MEMORY] button to save the settings.**

The button blinks rapidly, and then remains lit.

* The [MEMORY] button blinks if you modify the settings of a saved memory. If you want to save the modified settings, save the memory as described in "Saving a Memory."

* Any data stored within the unit can be lost as the result of equipment failure, incorrect operation, etc.

* Roland assumes no liability concerning the restoration of any stored content that has been lost.

Connecting a Footswitch

If a footswitch (FS-5U, FS-6, FS-7: sold separately) is connected to the FOOT SW jack, you can use the footswitch to turn the [DOUBLE] button on/off or to switch memories.

TIP = DOUBLE
RING = MEMORY INC

1/4" phone type
← →
1/4" phone type

Stereo 1/4" phone type
← →
1/4" phone type x 2

Stereo 1/4" phone type
← →
Stereo 1/4" phone

TIP RING TIP RING TIP RING TIP

FS-5U FS-5U FS-7 FS-6

MODE POLARITY
FS-5U (MOMENTARY) FS-5L (LATCH)

Assigning the Function of the Footswitch

Here's how to assign the function of a footswitch that's connected to the VE-1.

1. While holding down the [ENHANCE] button, turn on the power.

The [ENHANCE] button blinks red, and the ECHO TYPE indicator shows the TIP setting.

Function 1 — 7

	Function	Explanation	Default settings
1	ECHO LEVEL	Pressing the footswitch changes the echo level.	
2	DELAY LEVEL	Pressing the footswitch changes the delay level.	
3	DELAY FEEDBACK	Pressing the footswitch changes the amount of delay repeats.	
4	TAP TEMPO	Repeatedly pressing the footswitch sets the delay time to the corresponding interval.	
5	CORRECT	Pressing the footswitch changes the amount of pitch correction.	
6	DOUBLE	Turns the double-tracking effect on/off.	TIP
7	MEMORY INC	Switches to the next memory.	RING

2. Use the [TYPE] knob to select the footswitch function (TIP).

3. Press the pedal.

The [ENHANCE] button blinks green, and the ECHO TYPE indicator shows the RING setting.

4. Use the [TYPE] knob to select the footswitch function (RING).

5. Press the pedal to complete the settings.

Specifying the values that change when you press the footswitch

Here's how to specify the parameter values that change when you press the footswitch.

1. While holding down the footswitch to which the function is assigned, turn a knob to specify the value.

Turn the appropriate knob for the function that's assigned.

	Function	Knob	Explanation
1	ECHO LEVEL	[LEVEL] knob	Echo level
2	DELAY LEVEL	[LEVEL] knob *	Delay level
3	DELAY FEEDBACK	[TONE] knob *	Delay repeat amount
5	CORRECT	[CORRECT] knob	Pitch correction amount

* Available while in delay/pitch correction settings mode.

2. Release the footswitch to complete the settings.

Connecting the VE-1 to a Computer

If you use a commercially available USB 2.0 cable to connect the VE-1 to your computer, you'll be able to do the following.

USB connection mode	Explanation
NORMAL	Vocals and echo from a mic connected to the VE-1 can be recorded on your computer.
LOOP BACK	Vocals and echo from a mic connected to the VE-1, together with playback from your computer, can be mixed by the VE-1 and recorded or streamed on your computer.
INPUT	The VE-1 can apply echo to the playback from your computer, and output it.
DIRECT MONITOR OFF	Vocals and echo from a mic connected to the VE-1 can be output to your computer, and the output from your computer returned to the VE-1 for monitoring.

➡ For details on settings in USB connection mode, refer to **"Settings of the VE-1"**

*You must install the USB driver before connecting the VE-1 to your computer.

Download the USB driver from the Roland website.
For details, refer to Readme.htm which is included in the download.
➡ http://www.roland.com/support/

Settings of the VE-1

USB connection mode

You can specify how the unit will operate when connected to a computer via a USB cable.

Reference pitch setting

You can specify the Reference pitch for pitch correction.

Setting Procedure

To change a function or setting of the VE-1, turn on the power while long-pressing the corresponding button, and then change the setting.

Setting to be changed	Button to hold down at power-on	Change/Finalize	Parameters	Button status	Default settings
USB connection mode	MEMORY	MEMORY/Pedal	NORMAL	Blink in red	√
			LOOP BACK	Blink in orange	
			INPUT	Blink in green	
			DIRECT MONITOR OFF	Blink rapidly in red	
Reference pitch setting	DOUBLE	DOUBLE/Pedal	437 Hz (Left)	Blink in red (The ECHO TYPE indicators light to show the selected pitch).	
			438 Hz		
			439 Hz		
			440 Hz (Center)		√
			441 Hz		
			442 Hz		
			443 Hz (Right)		

Main Specifications BOSS VE-1: Vocal Echo

Power Supply	Rechargeable Ni-MH Battery (AA, HR6) or Alkaline (AA, LR6) x 4, AC Adaptor (sold separately)
Current Draw	200 mA Max. (9 V)
Expected battery life under continuous use	Rechargeable Ni-MH battery (AA, HR6): Approx. 12 hours (phantom power: OFF) / Approx. 8 hours (phantom power: ON) / Alkaline (AA, LR6): Approx. 11 hours (phantom power: OFF) / Approx. 7 hours (phantom power: ON) * These figures will vary depending on the specifications of the batteries and the actual conditions of use.
Dimensions	156 (W) × 116 (D) × 64 (H) mm — 6-3/16 (W) x 4-5/8 (D) x 2-9/16 (H) inches
Weight	600 g — 1 lb 6 oz
Accessories	Owner's Manual, Leaflet "USING THE UNIT SAFELY," Alkaline Battery (AA, LR6) x 4
Options (sold separately)	AC adaptor (PSA series), Footswitch (FS-5U, FS-6, FS-7)

* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

USING THE UNIT SAFELY

⚠ WARNING

To completely turn off power to the unit, pull out the plug from the outlet

Even with the power switch turned off, this unit is not completely separated from its main source of power. When the power needs to be completely turned off, turn off the power switch on the unit, then pull out the plug from the outlet. For this reason, the outlet into which you choose to connect the power cord's plug should be one that is within easy reach and readily accessible.

Handle batteries carefully

If used improperly, you risk the dangers of fluid leakage, overheating, combustion, explosion, etc. Carefully observe the following:

• Do not heat, disassemble, or toss them into a fire or water.
• Do not expose them to sunlight, flame, or any other source of extreme heat.
• Do not attempt to charge a dry cell battery.
• When using a rechargeable battery and a charger, make sure to use only the combination of rechargeable battery and charger that has been specified by the battery manufacturer. Also, be sure to read all of the precautions that were supplied with the rechargeable battery and charger, and abide by them when using the battery/charger.

⚠ CAUTION

Precautions concerning use of phantom power supply

Always turn the phantom power off when connecting any device other than condenser microphones that require phantom power. You risk causing damage if you mistakenly supply phantom power to dynamic microphones, audio playback devices, or other devices that don't require such power. Be sure to check the specifications of any microphone you intend to use by referring to the manual that came with it. (This instrument's phantom power: 48 V DC, 10 mA Max)

IMPORTANT NOTES

Power Supply: Use of Batteries
• If operating this unit on batteries, please use the alkaline batteries, rechargeable Ni-MH batteries.
• If operating this unit on batteries, please disconnect the AC adaptor from this unit.
• We recommend that you keep batteries installed in the unit even though you'll be powering it with the AC adaptor. That way, you'll be able to continue a performance even if the cord of the AC adaptor gets accidently disconnected from the unit.
• If you handle batteries improperly, you risk explosion and fluid leakage. Make sure that you carefully observe all of the items related to batteries that are listed in "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (leaflet "USING THE UNIT SAFELY" and Owner's Manual).
• When turning the unit over, be careful so as to protect the buttons and knobs from damage. Also, handle the unit carefully; do not drop it.

Repairs and Data
• When we carry out repairs, in some cases, such as when the memory section is physically damaged, restoration of the stored content may be impossible. Roland assumes no liability concerning the restoration of any stored content that has been lost.

Intellectual Property Right
• ASIO is a trademark and software of Steinberg Media Technologies GmbH.
• This product contains eCROS integrated software platform of eSOL Co.,Ltd. eCROS is a trademark of eSOL Co., Ltd. in Japan.