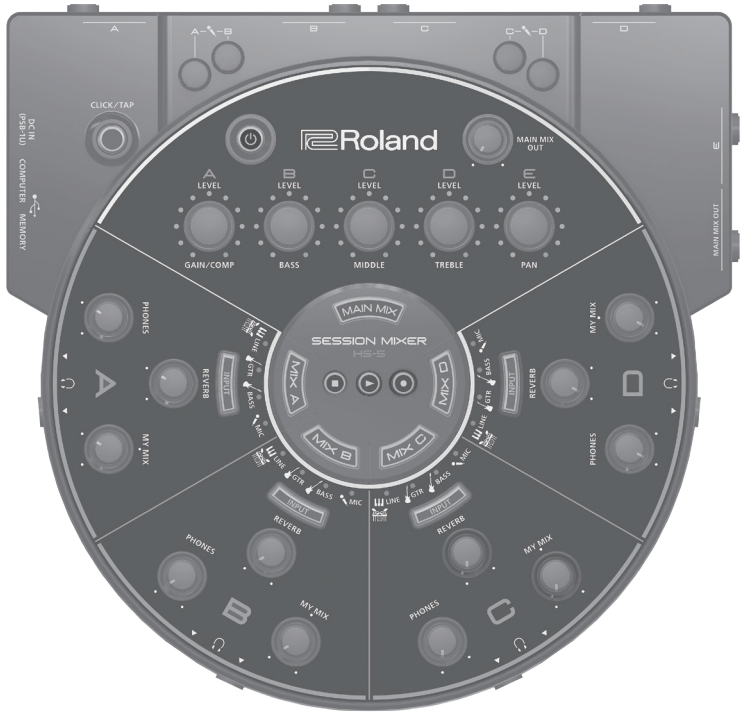
Roland

SESSION MIXER
HS-5 Owner's Manual



Contents

Panel Descriptions **2**
- Top/Side Panel **2**
- Rear Panel **2**

Using the HS-5 ..... **3**
- Making Connections **3**
- Basic Operation **4**
- Selecting the Input Type **5**
  - Switching the Input Type **5**
  - Switching the Effect (Amp Simulator / Effect) and Editing the Parameters **5**
- Adjusting the Headphone Output **6**
  - Adjusting the Volume Balance Between Your Performance and the Other Performances (MY MIX) **6**
  - Adjusting the Headphone Output Volume . **6**
- Sounding a Click **6**
  - Switching the Click On/Off and Setting the Tempo **6**
  - Adjusting the click tone volume **6**
- Applying Effects **7**
  - Applying Reverb **7**
  - Switching the Reverb Type and Editing the Parameters **7**
- Recording and Playing Back a Performance **8**
  - Recording a Performance **8**
  - Playing Back the Performance **8**
- Making Detailed Settings **9**
  - Sub-Mixer Settings **9**
  - Sharing Sub-Mixer Settings **9**
  - Solo Function **9**
  - Saving and Loading Settings (Snapshot) ... **10**
  - Volume Limiter Settings **10**
- Connecting Two HS-5 Units **11**
- Mounting on a Stand **11**
- Connecting to a Computer **11**

USING THE UNIT SAFELY **12**
- Changing the AUTO OFF setting **12**

IMPORTANT NOTES **12**
- Returns the HS-5 to the factory-set condition (Factory Reset) **12**

Specifications **14**

* 5 1 0 0 0 4 1 9 9 5 - 0 5 *

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 (p. 12)). 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.

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Panel Descriptions

Top/Side Panel

Ground terminal
Refer to "Ground terminal" (p. 12).

DC IN jack
Connect the included AC adaptor here.

COMPUTER port
Use this when connecting the HS-5 to your computer via a USB cable.

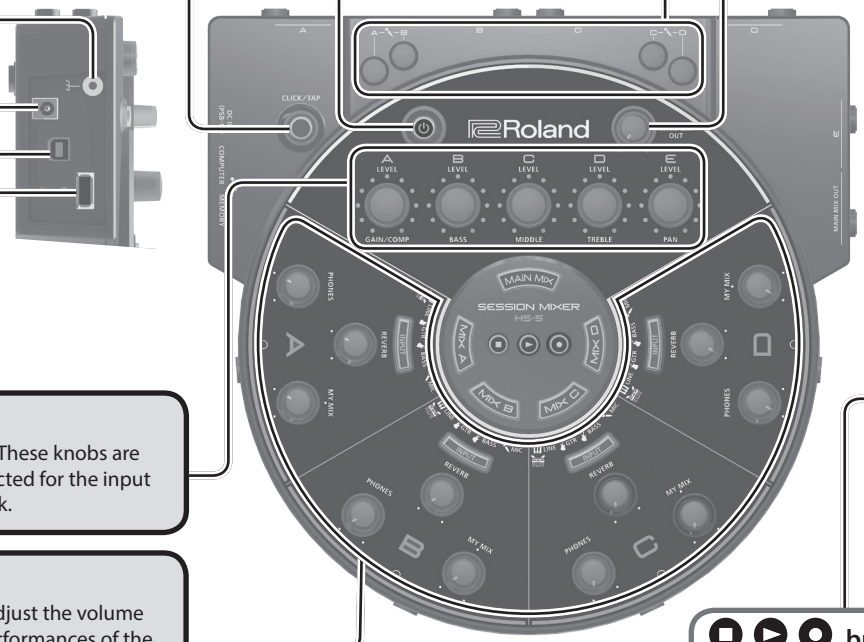
MEMORY port
Connect a USB flash drive here.

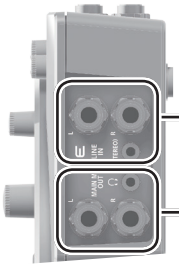
[CLICK/TAP] button
This turns the click on/off and specifies its tempo.

⏻ button
This turns the power of the HS-5 on/off.

Mic gain adjustment knobs
These adjust the mic gain (sensitivity) of sections A–D.

[MAIN MIX OUT] knob
This adjusts the output volume of the MAIN MIX OUT L, R/headphone jacks.





LINE IN L, R/STEREO jacks
Connect a line output device such as a keyboard or an audio player here.

MAIN MIX OUT L, R/ 🎧 headphone jacks
The sound of sections A–E is mixed and output here.

[A]–[E] knobs
These knobs adjust the mix balance of sections A–E. These knobs are also used to adjust the depth of the effect that's selected for the input type, and to adjust the tempo and volume of the click.

Section A–D
You can connect headphones to each section, and adjust the volume balance between your own performance and the performances of the other musicians. You can also apply reverb or another suitable effect to your performance.



⏹ ▶ ⏺ buttons
Use these buttons to record your performance onto a USB flash drive, or to play back a recorded performance.

[MAIN MIX] button
Press this when you want to adjust the volume balance of the main mixer.

[MIX A–D] buttons
These buttons turn on the sub-mixer, allowing you to adjust the volume balance between your own performance and the performances of the other musicians.

Rear Panel

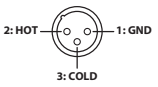
Guitar(L/MONO)/R jacks
Here you can connect guitars, electronic drums, or other instruments. If you are connecting a guitar, turn the HS-5 on its back and turn on the [Hi-Z] switch (A–D) of your own section.





MIC jacks
Here you can connect dynamic mics.

* 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.



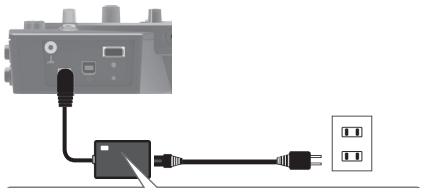
Using the HS-5

Making Connections

Connect the HS-5, the AC adaptor, mics, guitars, and other devices as shown in the connection examples.

Turning the Power On/Off

1. **Connect the included AC adaptor to the DC IN jack.**



Place the AC adaptor so the side with the indicator (see illustration) faces upwards and the side with textual information faces downwards. The indicator will light when you plug the AC adaptor into an AC outlet.

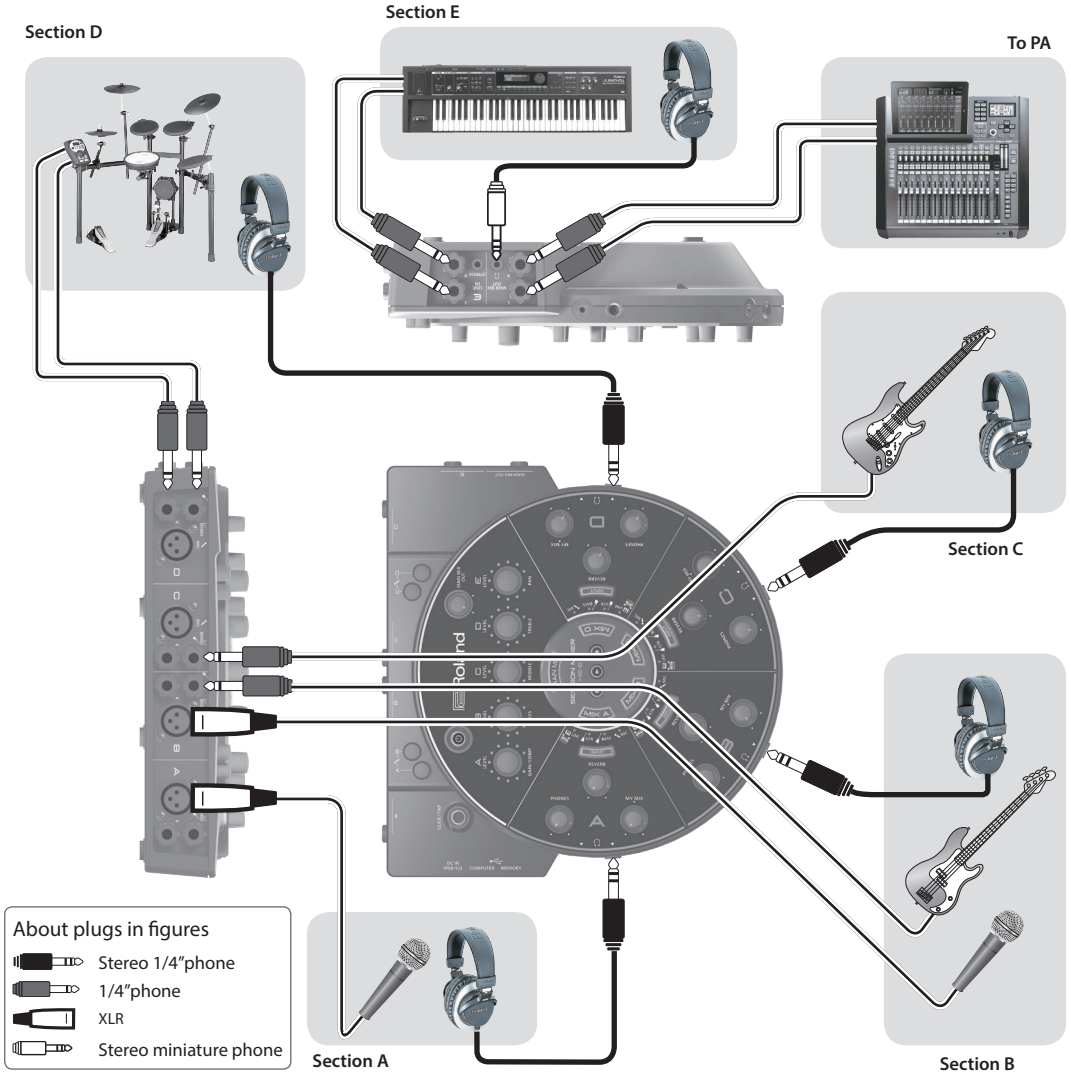
2. **Make sure that the volume of all connected devices is at the minimum setting.**
3. **Connect your mics, guitars, and other equipment that you use when performing.**
4. **Hold down the ⏻ button to turn on the power of the HS-5.**
5. **Turn on the power of the connected devices.**

* 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.

* This device will automatically power-off (Auto Off function) if there is no USB connection and 600 minutes have elapsed since the last operation.

➡ "About the Auto Off function" (p. 12)

To turn the power off, turn off the power of your equipment in the order of steps **5**, **4**, and **3**.



Connecting Your Equipment

The jacks and settings depend on the instruments you're using. Refer to the following instructions, and make the correct connections.

Connecting headphones

- Sections A–D have both 1/4" and stereo-mini headphone jacks. Use the jack that's appropriate for the type of connector of your headphones.
- For section E, you can connect headphones to the stereo-mini 🎧 jack in the MAIN MIX OUT section.

Connecting a dynamic mic

1. **Turn the mic gain adjustment knob toward the left to the minimum setting.**
2. **Connect your dynamic mic to the mic input jack.**

Connecting a guitar

1. **On the bottom of the HS-5, turn the [Hi-Z] switch on.**
2. **Connect your instrument to the guitar (L/MONO) jack.**



Connecting electronic drums or a synthesizer

1. **On the bottom of the HS-5, turn the [Hi-Z] switch off.**
2. **Connect your instrument to the guitar (L/MONO) jack and R jack.**



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

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

* Before turning the unit on/off, always be sure to turn the volume down. 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.

* When connection cables with resistors are used, the volume level of equipment connected to the inputs (MIC jacks Guitar (L/MONO)/R jack, LINE IN L, R/STEREO jacks) may be low. If this happens, use connection cables that do not contain resistors.

* Acoustic feedback could be produced depending on the location of microphones relative to speakers. This can be remedied by:

• Changing the orientation of the microphone(s). • Relocating microphone(s) at a greater distance from speakers. • Lowering volume levels.

Basic Operation

1 Adjusting the Input Level

Here's how to adjust the input level appropriately so that the vocal or instrumental sound is not distorted.

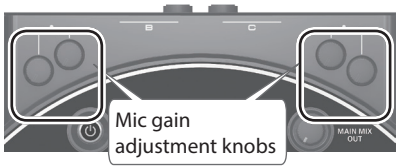
1. **Set the [PHONES] knob and the [MY MIX] knob to the center position.**
2. **Adjust the input level so that the vocal or instrumental is not distorted**

* Adjust the knob so that the [LEVEL] knob (A–E) indicator of your section does not light red when you vocalize into the mic or play your instrument.



Adjusting your mic

While vocalizing into the mic, adjust the mic gain knob of your own section.



Adjusting your guitar, keyboard, or drums

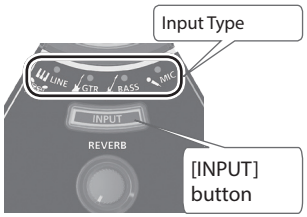
Increase or decrease the output volume of the instrument you're playing.

2 Selecting the Input Type

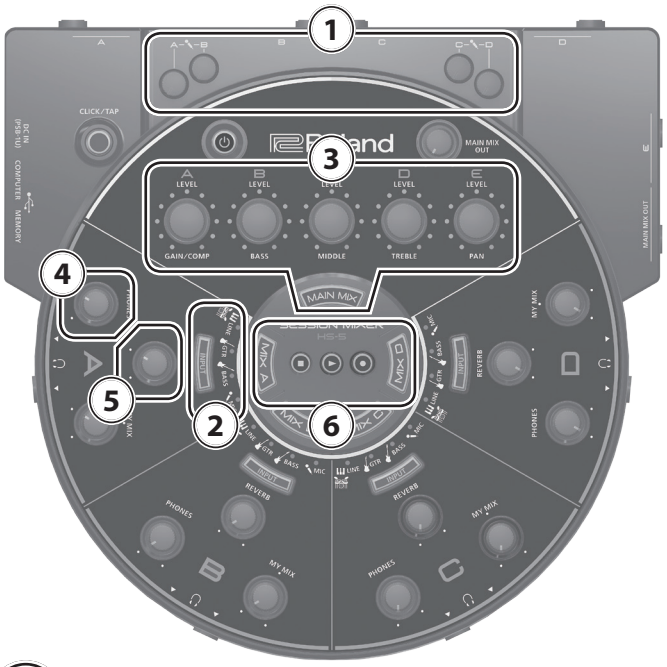
Use the [INPUT] button to select the input type.

This lets you apply an effect that's suitable for each type.

* If you don't want to apply an effect, choose "LINE."



➡ p. 5



3 Adjusting the Overall Volume Balance

Here's how to adjust the volume balance between all of the performers.

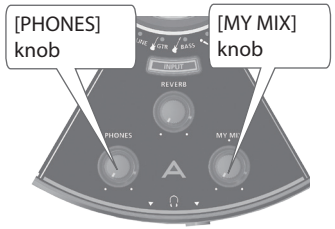
1. **Press the [MAIN MIX] button to make it light.**
2. **Set the [A]–[E] knobs to the center position.**
3. **Turn the [A]–[E] knobs to adjust the volume of each section.**

* It is easier to adjust the overall volume if all performers are producing sound while you turn the knobs.



4 Adjusting the Headphone Output

Use the [MY MIX] knob of each section to adjust the volume balance between your own performance and the performances of the other musicians, and use the [PHONES] knob to adjust the volume of the headphones.



* The HS-5 is capable of producing high-volume output. Adjust the volume with care to avoid damaging your hearing

➡ p. 6

5 Applying Reverb

Use the [REVERB] knob to add reverb to the sound of the vocal or performance.



➡ p. 7

6 Performing and Recording Your Performance

The HS-5 can record your performance on a USB flash drive that's connected to the MEMORY port.



Button	Operation
■	Stops playback or recording.
▶	Starts playback.
●	Starts recording
■ Rapidly press (tap) twice	Selects the preceding data.
■ + ▶	Selects the next data.
▶ + [MIX A]	Rewind.
▶ + [MIX D]	Fast-forward.

➡ p. 8

Selecting the Input Type

For each section, you can apply an amp simulator or effect that is suitable for guitar, bass, or vocal.
You can also switch the effect as appropriate for your performance.

Switching the Input Type

Press the [INPUT] button to switch the input type.



Type	Explanation
LINE	Lets you hear the unmodified sound of the instrument, without applying any effect.
GTR	Applies an amp simulator effect for guitar. Provides a natural resonance and fat distortion sound. The effect applies to the input signal from the (L/MONO)/R jacks.
BASS	Applies an amp simulator effect for bass. Boosts and fattens the low-frequency region. The effect applies to the input signal from the (L/MONO)/R jacks.
MIC	Applies an effect that's designed for vocals. Raises the loudness and improves the presence of the vocal. The effect applies to the input signal from the mic jack.

If you don't want to apply an effect to your guitar, bass, or vocal, choose "LINE."
You can also change the effect that's applied. For details, refer to the following section.

Switching the Effect (Amp Simulator / Effect) and Editing the Parameters

The HS-5 provides several amp simulators or effects for guitar, bass, and vocal.
You can switch the effect as appropriate for your performance.

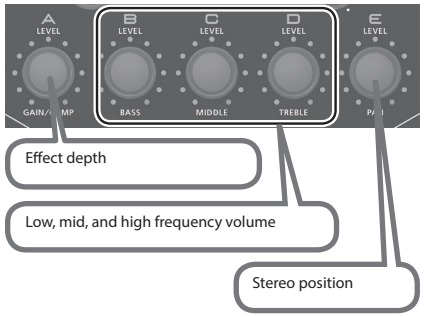
Editing the parameters

Turn the [A]–[E] knobs to adjust the parameters of the selected amp simulator/effect. The parameters adjusted by each knob are printed below the knob.

1. Long-press the [INPUT] button of your own section.

The [INPUT] button blinks.

2. Use the [A]–[D] knob to edit the effect parameters.



Switching the effect (amp simulator/effect)

You can switch the Input type effect as appropriate for your performance.

1. Press the [INPUT] button to switch the input type.

2. Long-press the [INPUT] button of your own section.

3. Hold down the [INPUT] button and turn knob [A] to switch the effect (amp simulator/effect) that's applied.

Type	indicators	Effect (amp simulator/effect)	
LINE	–	LINE	Lets you hear the unmodified sound of the instrument, without applying any effect.
GTR	1	JC-120	This models the sound of the Roland JC-120.
	2	CLEAN TWIN	This models a Fender Twin Reverb.
	3	TWEED	This models a Fender Bassman 4 x 10" Combo.
	4	DELUXE CRUNCH	This models a Fender Deluxe Reverb.
	5	VO DRIVE	This models the drive sound of a VOX AC-30TB. This is a sound that it suited to sixties-style British rock.
	6	MS HIGAIN	High-gain sound of a vintage Marshall specially revamped in a way that is possible only with COSM modeling technology.
	7	BG LEAD	This models the lead sound of the MESA/ Boogie combo amp. The sound of a tube amp typical of the late '70s to '80s.
	8	MS1959 I+II	This models a Marshall 1959. The sound of connecting inputs I and II of the guitar amp in parallel.
	9	R FIER VNT	This models the sound of the Channel 2 VINTAGE Mode on the Mesa/Boogie DUAL Rectifier.
	10	T AMP	This models a Hughes & Kettner Triamp AMP3.
BASS	1	COMP BASS	Compressor for bass.
	2	COMP SLAP	Compressor for slap bass.
	3	AMP CLEAN	Clean sound suitable for bass.
	4	AMP CRUNCH	Crunch sound with a natural distortion, suitable for bass.
	5	AMP HIGAIN	High-gain sound suitable for bass.
MIC	1	Compressor	
	2	Compressor + echo	
	3	Compressor + delay 1	
	4	Compressor + delay 2	
	5	Compressor + short delay	

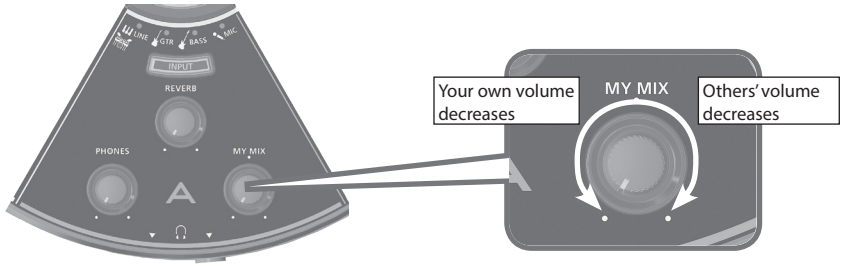
Adjusting the Headphone Output

To adjust the headphone output, use the [PHONE] knob and [MY MIX] knob of each section.

Adjusting the Volume Balance Between Your Performance and the Other Performances (MY MIX)

The headphones that are connected to sections A–D provide a mix of your own performance and the performances of the other musicians. Use the [MY MIX] knob to adjust the volume balance so that your own playing is easy to hear.

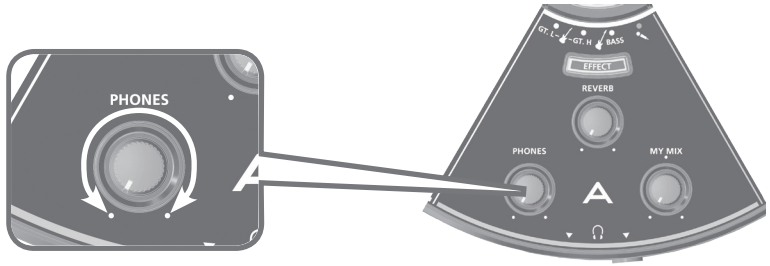
Turning the [MY MIX] knob toward the right decreases the volume of the others' performances; turning it toward the left decreases the volume of your own performance.



Adjusting the Headphone Output Volume

When you've finished adjusting the volume balance, use the [PHONES] knob to adjust the output volume of the headphones.

* The [PHONES] knob adjusts the volume while preserving the balance adjusted by the [MY MIX] knob.



Sounding a Click

The HS-5 can sound a click tone while you perform. The volume of the click tone can be adjusted individually for each section. By default, the tempo is set to 120 BPM.

Switching the Click On/Off and Setting the Tempo

1. Press the [CLICK/TAP] button.

The [CLICK/TAP] button blinks, and the click begins to sound.

2. Repeatedly tap (press) the [CLICK/TAP] button in time with the tempo of your song.

The click tone sounds at the tempo interval at which you tap the button.

* The specified tempo is remembered even after you power-off the HS-5.

Checking the tempo

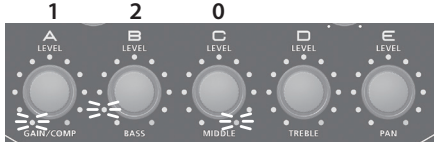
The specified tempo is shown by how the indicators of the [A]–[C] knobs are lit.

1. Long-press the [CLICK/TAP] button.

The [A]–[C] knob indicators light to indicate the current tempo. You can also change the tempo by turning knobs [A]–[C].

Knob	Value indicated
[A]	100s place
[B]	10s place
[C]	1s place

(Example) Tempo 120.0 BPM



3. Press any button other than [CLICK/TAP] to exit the tempo setting.

The indicators of the [A]–[E] knobs return to their normal indication.

4. To stop the click tone, press the [CLICK/TAP] button.

The [CLICK/TAP] button goes dark.

Adjusting the click tone volume

To adjust the volume of the click tone, hold down the [CLICK/TAP] button and turn your own section's ([A]–[E]) knob.

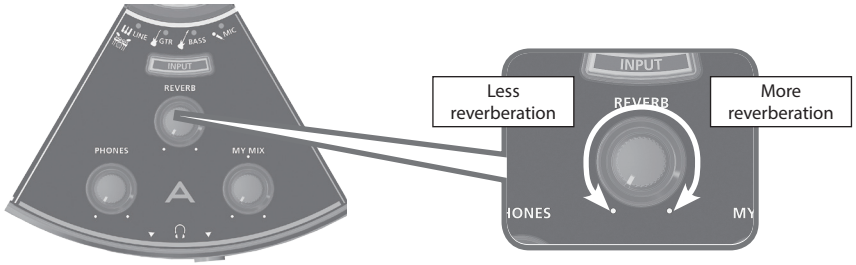
Applying Effects

Each section of the HS-5 provides reverb to add reverberation to your vocal or performance, as well as effects for guitar, bass, and vocal.

Applying Reverb

Adding reverb to your vocal or instrumental performance makes the sound smoother and improves the overall balance of your performance.

* If you add excessive reverb, your vocal or instrumental performance can become buried in the reverberation, making it indistinct.
Start by applying only a small amount of reverberation, and make adjustments as needed.

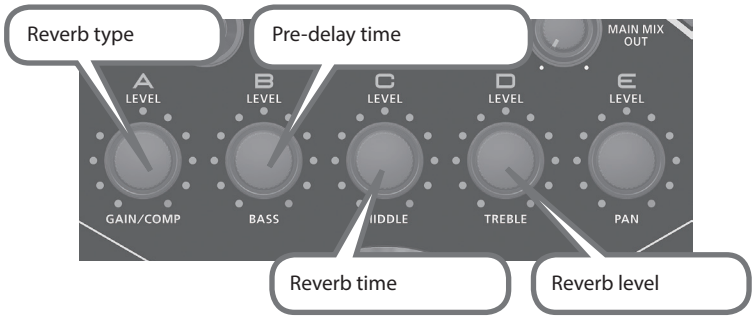


Switching the Reverb Type and Editing the Parameters

The HS-5 lets you change the type of reverb and how it sounds.

1. Long-press the section B and section C [INPUT] buttons.
The [INPUT] button blinks.

2. Use the [A]–[D] knob to change the type and parameters.



Number of indicators	Reverb Type	Character
1	ECHO	Simulates an echo-like effect.
2	ROOM	Simulates the reverberation of a performance in a room.
3	SMALL HALL	Simulates the reverberation of a performance in a small hall.
4	LARGE HALL	Simulates the reverberation of a performance in a large hall.
5	PLATE	Simulates a plate echo (a reverb unit that uses the vibration of a metal plate).

Recording and Playing Back a Performance

The HS-5 can record your performance on a USB flash drive connected to the MEMORY port.



Button	Operation
■	Stops playback or recording.
▶	Starts playback.
●	Starts recording
■ Rapidly press (tap) twice	Selects the preceding data.
■ + ▶	Selects the next data.
▶ + [MIX A]	Rewind.
▶ + [MIX D]	Fast-forward.

NOTE

The output of the main mixer is recorded.

The recording is not affected by the settings of each section's [PHONES] knob and [MY MIX] knob, nor by the setting of the [MAIN MIX OUT] knob.

Recording a Performance

Here's how to record your performance onto a USB flash drive.

1. Connect your USB flash drive (sold separately) to the MEMORY port.

* You must first use your computer to format the USB flash drive (FAT format).

All data on the USB flash drive is erased when you format it. If the USB flash drive contains data that you want to keep, make a backup before you proceed.

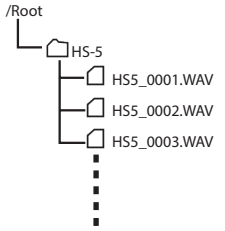
2. Press the ● button to start recording your performance.

3. When you finish your performance, press the ■ button to stop recording.

About the recorded data

The data is recorded in 16-bit 44.1 kHz stereo WAV format. A single recording can contain up to 200 minutes.

The recorded data is stored on the USB flash drive in a folder named "HS-5" with the file name HS5_****.wav (**** is the order in which the recording is created).



Playing Back the Performance

Here's how to play back a performance that you recorded on a USB flash drive, to listen to it or practice along with it.

1. Connect your USB flash drive (sold separately) to the MEMORY connector.

2. Select the data that you want to play back, and press the ▶ button.

3. To stop playback, press the ■ button.

- If a click tone is sounding during playback, the click tone also stops.
- By holding down the [CLICK/TAP] button and pressing the ■ button you can stop just the click tone.

Adjusting the recording level and playback level

* Normally there is no need to make these adjustments.

Adjusting the recording level



Factory-set value

1. **Check the recording level.**
   If the sound distorts during recording, the ● button blinks.
   Adjust the recording level.
2. **Adjust the recording level.**
   Hold down the ● button and turn LEVEL knob [A] to adjust the level.

Adjusting the playback level

If the playback volume is too high, you can adjust the playback level as follows.

1. **Adjust the playback level.**
   Hold down the ▶ button and turn LEVEL knob [A] to adjust the level.

Making Detailed Settings

Here are some more advanced ways to use the HS-5.

Sub-Mixer Settings

The HS-5 has a main mixer and four sub-mixers (MIX A–D). The sub-mixers are independent of the main mixer; each performer can individually adjust their own sub-mixer for more comfortable performing.

Examples of using the sub-mixers

Suppose that you are a bassist using section B, and the drummer is using section D. If you (section B) want the drums (section D) to be louder, but the drummer doesn't want to change the main mixer settings (balance), you can use the sub-mixer to keep both sides happy.

1. Press the [MIX A–D] button of the section whose sub-mixer you're adjusting, making the button light.

If there is a section whose sub-mixer settings you've already adjusted, the [MIX A–D] button is lit dimly.

2. Use the [A]–[E] knobs to adjust the volume balance of each section.

To stop using the sub-mixer, make the [MIX A–D] button light and then press the button once again to make it go dark.

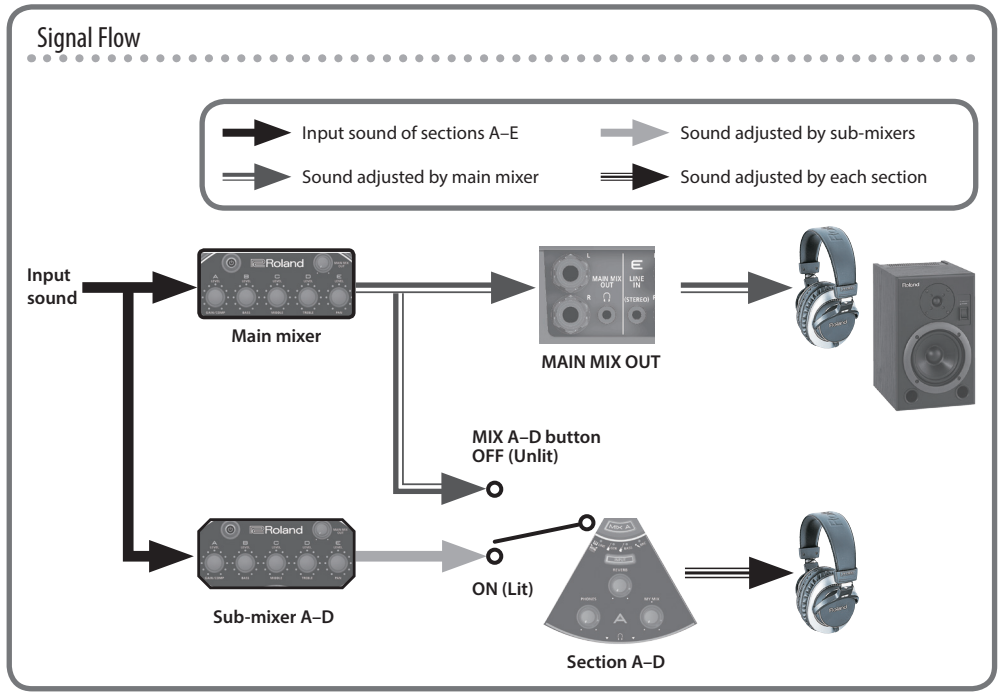


About the [MIX A–D] button illumination

When you're adjusting the sub-mixer settings, the [MIX A–D] buttons are illuminated to indicate the status of the sub-mixer settings.

[MIX A–D] button status	Explanation
Lit	The sub-mixer is on, and can be adjusted by the [A]–[E] knobs.
Dimly lit	The sub-mixer is on, and can not be adjusted by the [A]–[E] knobs. * If the sub-mixer settings are being shared, this can be made the share-source.
Unlit	The sub-mixer is off.
Blinking	The solo function is active.

Signal Flow



Sharing Sub-Mixer Settings

Multiple sections can share a single sub-mixer. By sharing a sub-mixer, the sub-mixer settings of section A can be used by sections B and C as well.

1. Hold down the [MIX A–D] button of your own section, and press the [MIX A–D] button (dimly lit) of the share-source section.

The sub-mixer of the share-source is assigned to your own section.

* You can't share settings from an unlit [MIX A–D] button.
* To cancel sharing, press the [MIX A–D] button of the section that you want to cancel, making that button light; then press the button once again to make it go dark.

Solo Function

This function lets you hear only the performance of your own section. While you are using the solo function, your sound is no longer output to the other sections. This function is useful when you want to tune your instrument or to practice individually.

To activate the solo function, long-press the [MIX A–D] button of your own section to make the button blink.

Saving and Loading Settings (Snapshot)

You can use the snapshot function to save the current settings on a USB flash drive. This is a useful way to easily save your settings for later reuse if you practice in different locations or at different times.

* Snapshot function can save one current settings on a USB flash drive.

Saving your settings

1. Connect your USB flash drive (sold separately) to the MEMORY port.

2. Long-press the section C and section D [INPUT] buttons.

3. Press the ● button to save/overwrite-save the settings.

When the button stops blinking, the settings have been saved. The HS-5 then returns to its normal state.

* If you decide to return to the normal state without saving/overwrite-saving, press the ■ button.

Loading your settings

1. Connect your USB flash drive (sold separately) to the MEMORY port.

2. Press the section C and section D [INPUT] buttons.

3. ▶ button to loading the settings.

When the button stops blinking, the settings have been loaded. The HS-5 then returns to its normal state.

* If you want to return to the normal state without loading, press the ■ button

Volume Limiter Settings

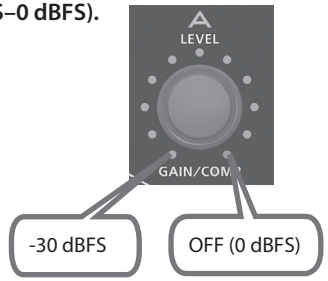
The HS-5 lets you limit the maximum volume that can be output.

* By default, the output volume is not limited, allowing you to hear the performance at high volume (volume limiter: off → 0 dBFS).

1. Long-press the section B and section D [INPUT] buttons.

The [INPUT] buttons blink.

2. Use the [A] knob to specify the maximum volume (-30 dBFS–0 dBFS).



Connecting Two HS-5 Units

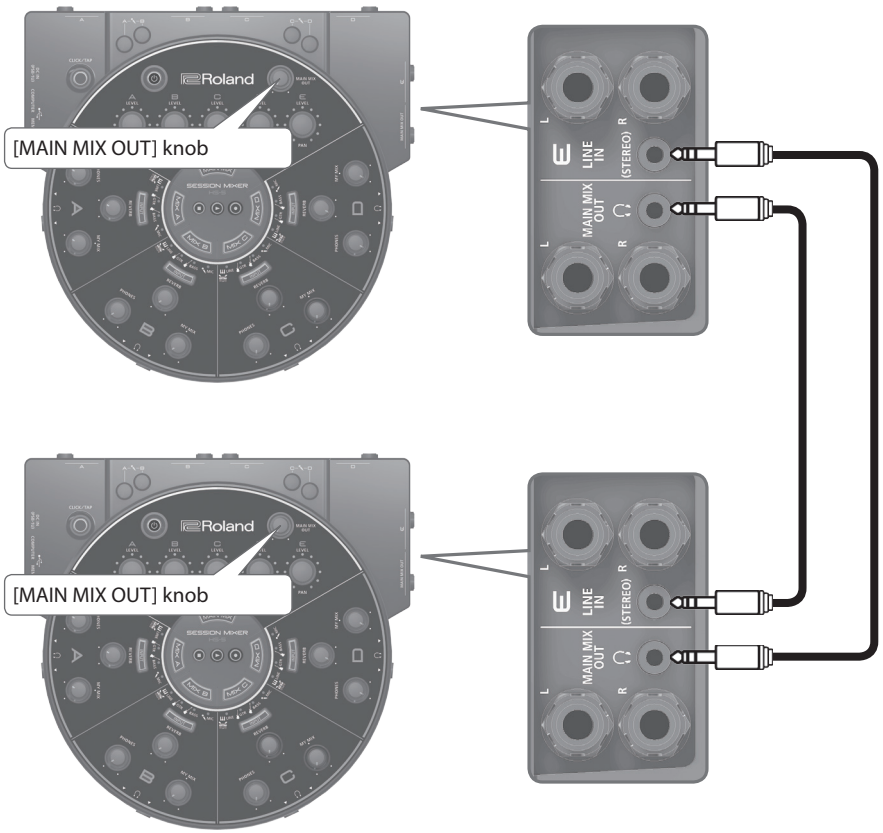
You can connect two HS-5 units so that up to eight people can perform simultaneously.

1. On the bottom of each HS-5 unit, turn the [LINK] switch ON.

* When the [LINK] switch is ON, the [MAIN MIX OUT] knob is disabled.
* When the [LINK] switch is OFF, the [MAIN MIX OUT] knob is enabled. Since high volumes may occur depending on the settings of the knobs, you should turn down the [MAIN MIX OUT] knob before you turn the [LINK] switch OFF.

2. Using two stereo-mini cables, connect the section E STEREO jack (input) of each unit to the MAIN MIX OUT headphone jack (output) of the other unit.

* The output from the second HS-5 is input by mixing it into section E.



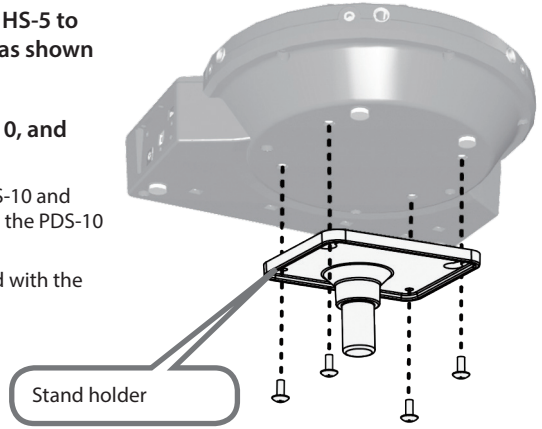
Mounting on a Stand

You can mount the HS-5 on a stand (sold separately: PDS-10) for use.

1. Use the screws on the bottom of the HS-5 to attach it to the PDS-10 stand holder as shown in the illustration.

2. Attach the stand holder to the PDS-10, and fasten it.

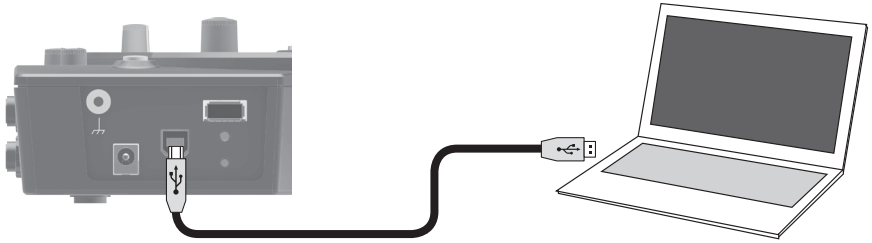
* For details on how to assemble the PDS-10 and how to attach the stand holder, refer to the PDS-10 owner's manual.
* Do not use the screws that are included with the pad stand.



Connecting to a Computer

You can use a commercially available USB 2.0 cable to connect the HS-5 to your computer, and use recording/playback software (DAW) on your computer to record your performance. This allows you to record sections A–E as individual tracks (multi-track recording), or to record the mixed sound of sections A–E (MAIN MIX).

In addition to recording, you can also use the HS-5 to hear stereo songs or audio that's played back from your computer.



* You must install the USB driver before connecting the HS-5 to your computer. Download the USB driver from the Roland website. For details, refer to Readme.htm which is included in the download.

  Roland website : http://www.roland.com/support/

* For details on DAW settings and recording procedure, refer to the owner's manual of your DAW.

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.

About the Auto Off function

This device will automatically power-off (Auto Off function) if there is no USB connection and 600 minutes have elapsed since the last operation.

If you don't want the power to turn off automatically, you can disable the Auto Off function.

Changing the AUTO OFF setting

1. **Long-press the section B and section D [EFFECT] buttons.**
   The [EFFECT] buttons blink.
2. **Use the [B] knob to turn AUTO OFF on (all indicators lit) or off (only the left indicator lit).**

NOTE

- Any settings that you are in the process of editing will be lost when the power is turned off. If you have any settings that you want to keep, you should save them beforehand.
- To restore power, turn the power on again(p. 3).

Use only the stand that is recommended

This unit should be used only with a stand that is recommended by Roland.

Do not place in a location that is unstable

When using the unit with a stand recommended by Roland, the stand must be carefully placed so it is level and sure to remain stable. If not using a stand, you still need to make sure that any location you choose for placing the unit provides a level surface that will properly support the unit, and keep it from wobbling.

⚠ WARNING

Precautions regarding placement of this unit on a stand

Be sure to follow the instructions in the Owner's Manual carefully when placing this unit on a stand (p. 11).

If it is not set up properly, you risk creating an unstable situation which could lead to the unit falling or the stand toppling, and may result in injury.

Use only the supplied AC adaptor and the correct voltage

Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.

Use only the supplied power cord

Use only the attached power cord. Also, the supplied power cord must not be used with any other device.

⚠ CAUTION

Use only the specified stand(s)

This unit is designed to be used in combination with specific stands (PDS-10) manufactured by Roland. If used in combination with other stands, you risk sustaining injuries as the result of this product dropping down or toppling over due to a lack of stability.

Evaluate safety issues before using stands

Even if you observe the cautions given in the owner's manual, certain types of handling may allow this product to fall from the stand, or cause the stand to overturn. Please be mindful of any safety issues before using this product.

Keep small items out of the reach of children

To prevent accidental ingestion of the parts listed below, always keep them out of the reach of small children.

- Removable Parts
  Screw for attaching the PDS-10 (p. 11)

Handle the ground terminal carefully

If you remove the screw from the ground terminal, be sure to replace it; don't leave it lying around where it could accidently be swallowed by small children. When refastening the screw, make that it is firmly fastened, so it won't come loose.

IMPORTANT NOTES

Placement

- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface. You can place a piece of felt or cloth under the rubber feet to prevent this from happening. If you do so, please make sure that the unit will not slip or move accidentally.

Ground terminal

- Depending on the circumstances of a particular setup, you may experience a discomforting sensation, or perceive that the surface feels gritty to the touch when you touch this device, microphones connected to it, or the metal portions of other objects, such as guitars. This is due to an infinitesimal electrical charge, which is absolutely harmless. However, if you are concerned about this, connect the ground terminal (see figure) with an external ground. When the unit is grounded, a slight hum may occur, depending on the particulars of your installation. If you are unsure of the connection method, contact the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. Unsuitable places for connection
  - Water pipes (may result in shock or electrocution)
  - Gas pipes (may result in fire or explosion)
  - Telephone-line ground or lightning rod (may be dangerous in the event of lightning)

Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.

Additional Precautions

- 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.
- Never turn off the power or disconnect a USB flash drive or USB cable during recording or while the HS-5 is connected to a computer.
- Roland assumes no liability concerning the restoration of any stored content that has been lost.

Using External Memories

- Please observe the following precautions when handling external memory devices. Also, make sure to carefully observe all the precautions that were supplied with the external memory device.
  - Do not remove the device while reading/writing is in progress.
  - To prevent damage from static electricity, discharge all static electricity from your person before handling the device.
- Carefully insert the USB flash drives all the way in—until it is firmly in place.

Copyright

- It is forbidden by law to make an audio recording, video recording, copy or revision of a third party's copyrighted work (musical work, video work, broadcast, live performance, or other work), whether in whole or in part, and distribute, sell, lease, perform, or broadcast it without the permission of the copyright owner.
- Do not use this product for purposes that could infringe on a copyright held by a third party. We assume no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this product.

Licenses/Trademarks

- MMP (Moore Microprocessor Portfolio) refers to a patent portfolio concerned with microprocessor architecture, which was developed by Technology Properties Limited (TPL). Roland has licensed this technology from the TPL Group.
- 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.
- Roland is an either registered trademark or trademark of Roland Corporation in the United States and/or other countries.
- Company names and product names appearing in this document are registered trademarks or trademarks of their respective owners.

Returns the HS-5 to the factory-set condition (Factory Reset)

You can reset the HS-5 to its factory-set condition by turning the power on with holding down the section A and B [EFFECT] buttons simultaneously.

NOTE

When you execute this factory reset, all settings of the HS-5 are initialized. If you want to keep your settings, you must first save them as described in "Saving and Loading Settings (Snapshot)" (p. 10).

For the U.K.

WARNING: THIS APPARATUS MUST BE EARTHED
IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.
GREEN-AND-YELLOW: EARTH, BLUE: NEUTRAL, BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

For the USA

DECLARATION OF CONFORMITY
Compliance Information Statement

Model Name : HS-5
Type of Equipment : AUDIO MIXER
Responsible Party : Roland Corporation U.S.
Address : 5100 S. Eastern Avenue Los Angeles, CA 90040-2938
Telephone : (323) 890-3700

For the USA

FEDERAL COMMUNICATIONS COMMISSION
RADIO FREQUENCY INTERFERENCE STATEMENT

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 to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment requires shielded interface cables in order to meet FCC class B limit.
Any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada

CAN ICES-3 (B)/NMB-3 (B)

For Korea

사용자 안내문

기종별	사용자 안내문
B 급 기기 (가정용 방송통신기자재)	이 기기는 가정용(B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든지역에서 사용할 수 있습니다.

Manufacturer: 2036-1 Nakagawa, Hosoe-cho, Kita-ku, Hamamatsu, Shizuoka 431-1304, JAPAN
Importer: ENA 23 Zone 1 nr. 1620 Klaus-Michael Kuehnelaan 13, 2440 Geel, BELGIUM

CE

For EU Countries

UK This symbol indicates that in EU countries, this product must be collected separately from household waste, as defined in each region. Products bearing this symbol must not be discarded together with household waste.

DE Dieses Symbol bedeutet, dass dieses Produkt in EU-Ländern getrennt vom Hausmüll gesammelt werden muss gemäß den regionalen Bestimmungen. Mit diesem Symbol gekennzeichnete Produkte dürfen nicht zusammen mit den Hausmüll entsorgt werden.

FR Ce symbole indique que dans les pays de l'Union européenne, ce produit doit être collecté séparément des ordures ménagères selon les directives en vigueur dans chacun de ces pays. Les produits portant ce symbole ne doivent pas être mis au rebut avec les ordures ménagères.

IT Questo simbolo indica che nei paesi della Comunità europea questo prodotto deve essere smaltito separatamente dai normali rifiuti domestici, secondo la legislazione in vigore in ciascun paese. I prodotti che riportano questo simbolo non devono essere smaltiti insieme ai rifiuti domestici. Ai sensi dell'art. 13 del D.Lgs. 25 luglio 2005 n. 151.

ES Este símbolo indica que en los países de la Unión Europea este producto debe recogerse aparte de los residuos domésticos, tal como esté regulado en cada zona. Los productos con este símbolo no se deben depositar con los residuos domésticos.

PT Este símbolo indica que nos países da UE, a recolha deste produto deverá ser feita separadamente do lixo doméstico, de acordo com os regulamentos de cada região. Os produtos que apresentem este símbolo não deverão ser eliminados juntamente com o lixo doméstico.

NL Dit symbool geeft aan dat in landen van de EU dit product gescheiden van huishoudelijk afval moet worden aangeboden, zoals bepaald per gemeente of regio. Producten die van dit symbool zijn voorzien, mogen niet samen met huishoudelijk afval worden verwijderd.

DK Dette symbol angiver, at i EU-lande skal dette produkt opsamles adskilt fra husholdningsaffald, som defineret i hver enkelt region. Produkter med dette symbol må ikke smides ud sammen med husholdningsaffald.

NO Dette symbolet indikerer at produktet må behandles som spesialavfall i EU-land, iht. til retningslinjer for den enkelte regionen, og ikke kastes sammen med vanlig husholdningsavfall. Produkter som er merket med dette symbolet, må ikke kastes sammen med vanlig husholdningsavfall.

SE Symbolen anger att i EU-länder måste den här produkten kasseras separat från hushållsavfall, i enlighet med varje regions bestämmelser. Produkter med den här symbolen får inte kasseras tillsammans med hushållsavfall.

FI Tämä merkintä ilmaisee, että tuote on EU-maissa kerättävä erillään kotitalousjätteistä kunkin alueen voimassa olevien määräysten mukaisesti. Tällä merkinnällä varustettuja tuotteita ei saa hävittää kotitalousjätteiden mukana.

HU Ez a szimbólum azt jelenti, hogy az Európai Unióban ezt a terméket a háztartási hulladéktól elkülönítve, az adott régióban érvényes szabályozás szerint kell gyűjteni. Az ezzel a szimbólummal ellátott termékeket nem szabad a háztartási hulladék közé dobni.

PL Symbol oznacza, że zgodnie z regulacjami w odpowiednim regionie, w krajach UE produktu nie należy wyrzucać z odpadami domowymi. Produktów opatrzonych tym symbolem nie można utylizować razem z odpadami domowymi.

CZ Tento symbol udává, že v zemích EU musí být tento výrobek sbírán odděleně od domácího odpadu, jak je určeno pro každý region. Výrobky nesoucí tento symbol se nesmí vyhazovat spolu s domácím odpadem.

SK Tento symbol vyjadruje, že v krajinách EÚ sa musí zber tohto produktu vykonávať oddelene od domového odpadu, podľa nariadení platných v konkrétnej krajine. Produkty s týmto symbolom sa nesmú vyhadzovať spolu s domovým odpadom.

EE See sümbol näitab, et EL-i maades tuleb see toode olemprügist eraldi koguda, nii nagu on igas piirkonnas määratletud. Selle sümboliga märgitud tooteid ei tohi ära visata koos olmeprügiga.

LT Šis simbolis rodo, kad ES šalyse šis produktas turi būti surenkamas atskirai nuo buitinių atliekų, kaip nustatyta kiekviename regione. Šiuo simboliu paženklinti produktai neturi būti išmetami kartu su buitinėmis atliekomis.

LV Šis simbols norāda, ka ES valstīs šo produktu jāievāc atsevišķi no mājsaimniecības atkritumiem, kā noteikts katrā reģionā. Produktus ar šo simbolu nedrīkst izmest kopā ar mājsaimniecības atkritumiem.

SI Ta simbol označuje, da je treba proizvod v državah EU zbirati ločeno od gospodinjskih odpadkov, tako kot je določeno v vsaki regiji. Proizvoda s tem znakom ni dovoljeno odlagati skupaj z gospodinjskimi odpadki.

GR Το σύμβολο αυτό υποδηλώνει ότι στις χώρες της Ε.Ε. το συγκεκριμένο προϊόν πρέπει να συλλέγεται χωριστά από τα υπόλοιπα οικιακά απορρίμματα, σύμφωνα με όσα προβλέπονται σε κάθε περιοχή. Τα προϊόντα που φέρουν το συγκεκριμένο σύμβολο δεν πρέπει να απορρίπτονται μαζί με τα οικιακά απορρίμματα.

For China

有关产品中所含有害物质的说明

本资料就本公司产品中所含的特定有害物质及其安全性予以说明。
本资料适用于2007年3月1日以后本公司所制造的产品。

环保使用期限

此标志适用于在中国国内销售的电子信息产品，表示环保使用期限的年数。所谓环保使用期限是指在自制造日起的规定期限内，产品中所含的有害物质不致引起环境污染，不会对人身、财产造成严重的不良影响。
环保使用期限仅在遵照产品使用说明书，正确使用产品的条件下才有效。
不当的使用，将会导致有害物质泄漏的危险。

产品中有害物质的名称及含量

部件名称	有害物质					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
外壳（壳体）	×	O	O	O	O	O
电子部件（印刷电路板等）	×	O	×	O	O	O
附件（电源线、交流适配器等）	×	O	O	O	O	O

本表格依据SJ/T 11364的规定编制。
O：表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 规定的限量要求以下。
×：表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572的限量要求。
（企业可在此处，根据实际情况对上表中打“×”的技术原因进行进一步说明。）

Specifications

Roland HS-5: AUDIO MIXER

[Processing]
- Sampling Frequency
44.1 kHz

- Signal Processing
AD/DA conversion: 24 bits

[Recorder]
- Tracks
2 tracks (stereo)

- Recording Mode
USB flash drive: WAV (44.1 kHz, 16 bits)

- Recording Media
USB flash drive (512 MB–32 GB)

- Recording Time (unit: hour)
2 GB: 3
4 GB: 6
8 GB: 12
16 GB: 24
32 GB: 48

* Each recording time is approximate. The times may change depending on the card specifications.

* In case that there are plural files, the sum of recording time would be shorter than above.

* Maximum recording time of one song is 200 minutes.

- Recording Songs
Up to 512 songs on a single USB flash drive

[Effects]
- Guitar
Amp: 10 types

- Bass
Amp: 5 types

- Vocal
Compressor, Equalizer, Delay

Reverb: 5 types

[Input/Output]
- Audio Input
Section A-D = MIC jacks: XLR type (balanced), INPUT L/R jacks: 1/4-inch phone type (unbalanced) *1
Section E = INPUT L/R jacks: 1/4-inch phone type (unbalanced), Stereo miniature phone type

*1 INPUT L jack supports high impedance

- Audio Output
Section A-D = PHONES jacks: Stereo 1/4-inch phone type, Stereo miniature phone type
MAIN MIX OUT = PHONES jacks: Stereo miniature phone type, OUTPUT L/R jacks: 1/4-inch phone type (unbalanced)

- Frequency Response
20 Hz-20 kHz (+0 dB/-2 dB)

[Other]
- Dimensions
257 (W) x 248 (D) x 68 (H) mm
10-1/8 (W) x 9-13/16 (D) x 2-11/16 (H) inches

- Weight (excluding AC Adaptor)
1.1 kg
2 lbs 7 oz

- Power Supply
AC adaptor

- Current Draw
1.2 A

- Accessories
Owner's manual
Leaflet "USING THE UNIT SAFELY"
AC adaptor
Power Cord

- Options (sold separately)
Stand: Roland PDS-10

* 0 dBu = 0.775 Vrms

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

Roland Service Centers and Distributors

When you need repair service, access this URL and find your nearest Roland Service Center or authorized Roland distributor in your country.

http://roland.cm/service