

## TRIGGER MODULE TM-2

### Owner's Manual



### Look what you can do with the TM-2

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By using the TM-2 in conjunction with separately sold pads or acoustic drum triggers, you can easily play the internal sounds or your own audio files.

- Use with acoustic drums to play electronic sounds or percussion
- Enhance an acoustic kick, or layer claps onto a snare
- Play songs or loops
- Connect the TM-2 via MIDI with your V-Drums, and play your favorite drum sounds (WAV files)



#### Owner's Manual (this document)

Read this first. It explains the basic things you need to know in order to use the TM-2.



#### PDF Manual (download from the Web)

##### • Sound List

This lists the TM-2's internal sounds and the effect parameters.



#### To obtain the PDF manual

1. Enter the following URL in your computer.  
<http://www.roland.com/manuals/>
2. Choose "TM-2" as the product name.

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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. 20). 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 the Owner's Manual in its entirety. This manual should be saved and kept on hand as a convenient reference.

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# Main Features

## Play WAV files

In addition to the internal sounds, you can insert an SD card containing audio files (WAV) and play your favorite drum sounds, sound effects, songs, or loop phrases.

## A wide variety of pads are supported

Use the RT series to trigger the TM-2 from acoustic drums, or the KD series to play it with a kick pedal. Use a V-pad with a mesh head for a second snare, or connect a BT-1 bar trigger pad. You can connect the pads that are appropriate for your needs.

## Battery operation

The unit can be powered on batteries, reducing troublesome cabling and allowing quick setup.

# TM-2 Quick Start

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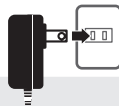
ESL

POR

NLD

## 1 Connect the AC adaptor/Install batteries

Connect the AC adaptor. →p. 6  
Alternatively, install batteries. →p. 4



## 2 Connect amplified speakers →p. 6

Connect your amplified speakers or mixer to the OUTPUT jacks.  
You can also listen to the sound by connecting headphones to the PHONES jack.



## 3 Connect your pads/acoustic drum triggers →p. 7

Connect your pads or acoustic drum triggers to the TRIG IN jacks.  
To make connections, use the cables included with your pads.



## 4 Turn the power on →p. 6

Press the  (Power) button.



## 5 Make settings for your pads or acoustic drum triggers →p. 7

Press the [SHIFT] + [INST] button and specify the type of pads or acoustic drum triggers that you've connected.

\* If you've connected an acoustic drum trigger, adjust parameters such as "Threshold", "Curve", and "RetrgCancel" as appropriate for the way in which your drum trigger is attached and how the head is stretched. →p. 16



## 6 Select a kit and play it →p. 8

Use the [-][+] buttons to select a kit.  
Strike the pads to play the kit.



## 7 Play audio files →p. 10

Copy your audio files (WAV, 44.1 kHz) to the **Roland/TM-2/WAVE** folder of an SD/SDHC card, and assign them to pads so that they can be played.

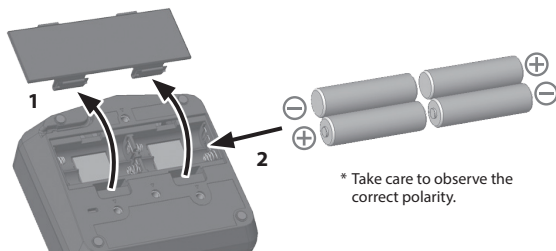


# Installing Batteries

\* You must turn off the power before installing or removing the batteries. →p. 6

\* If you're using the unit on battery power, disconnect the AC adaptor from the DC IN jack.

1. Open the battery compartment cover located on the bottom panel.
2. Install rechargeable Ni-MH batteries or alkaline batteries (four AA batteries).



## Battery life (under continuous use)

Rechargeable Ni-MH battery	Approx. 6 hours
Alkaline battery	Approx. 4.5 hours




\* The time may vary according to usage conditions, batteries used, and type of SD memory card used.

3. Change the "BATTERY Type" setting to match the type of batteries that you installed. →p. 14

The approximate remaining battery life is shown in the kit screen.

\* 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 p. 20).

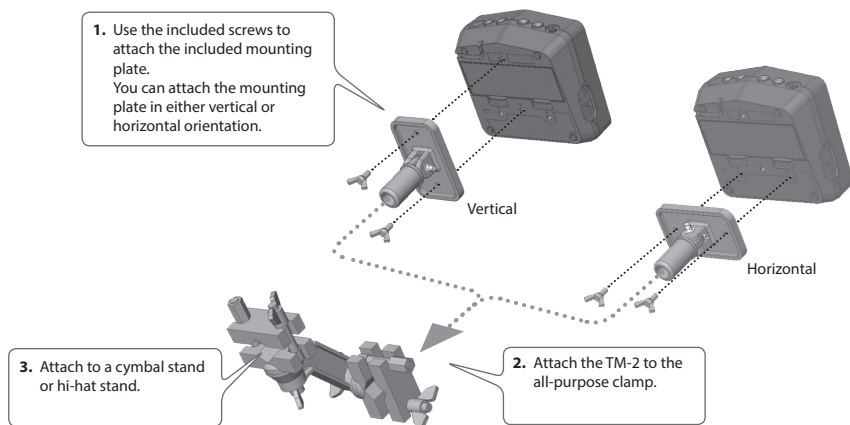
## Remaining battery amount (approximate)

-  Half
-  Nearly empty
-  Replace the batteries

\* The indicator is not shown if there is plenty of remaining capacity.

# Using the Mounting Plate

By using the mounting plate (included) and the all-purpose clamp (APC-33: sold separately), you can attach the TM-2 to a hi-hat stand or cymbal stand.



Remove the mounting plate when installing or removing batteries.

\* Use only the screws that are included with the TM-2. Using any other screws may cause malfunctions.

\* When turning the unit over, be careful so as to protect the knobs from damage.

# Panel Descriptions

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## Display

When you turn on the power, the display shows the kit number and name. If you press the [INST] button, the display shows parameters and values.

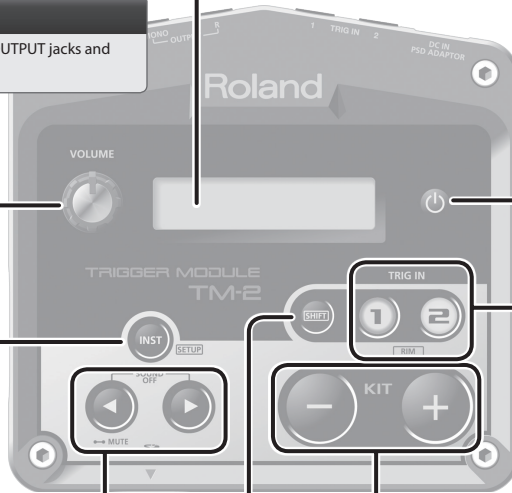
Display settings →p. 14

## [⏻] (Power) button

Turns the power on/off. Hold down the button until the power turns on or off. →p. 6

## [VOLUME] knob

Adjusts the volume of the OUTPUT jacks and PHONES jack.



## [INST] button

- Displays the instrument edit screen. →p. 11
- If you hold down the [SHIFT] button and press the [INST] button, the setup screen appears. →p. 14

## [-] [+] buttons

Use these buttons to switch kits. In screens such as the edit screen, use these buttons to edit parameter values.

## [<] [>] buttons

Use these buttons to switch parameters or pages.

SOUND OFF →p. 8  
MUTE →p. 8

## [SHIFT] button

You can access a variety of functions by using this in conjunction with other buttons.

## SD card slot

You can insert an SD card into this slot. Push the SD card once again to eject.

- \* Never insert or remove an SD card while this unit is turned on. Doing so may corrupt the data on the SD card.
- \* Carefully insert the SD card all the way in—until it is firmly in place.

## TRIG IN [1] [2] buttons

- When you strike a pad, the corresponding TRIG IN [1] [2] button lights.
- When editing an instrument, use the TRIG IN [1] [2] buttons to select the pad whose settings you want to change. To select the rim, hold down the [SHIFT] button and press a TRIG IN button. (Head, Rim →p. 8)

### Preview

When you press a TRIG IN button, the instrument will sound, allowing you to audition the tone. You can also change a setting so that sound is not heard when you press the button. →p. 14

### Trigger lock on/off

If you long-press the TRIG IN [1] or [2] button, the target for editing will not change even when you strike the pads. →p. 14

\* The explanations in this manual include illustrations that depict what should typically be shown by the display. Note, however, that your unit may incorporate a newer, enhanced version of the system (e.g., includes newer sounds), so what you actually see in the display may not always match what appears in the manual.

# Connecting Your Equipment

## OUTPUT jacks

These jacks output the sound. Connect them to amplified speakers, mixers etc. If you're outputting in monaural, connect only the L/MONO jack.

## PHONES jack

Connect headphones here. Even if headphones are connected, sound will still be output from the OUTPUT jacks.

## TRIG IN 1, 2 jacks

Connect pads (PD series: sold separately) or acoustic drum triggers (RT series: sold separately) here. → p. 7

### Connection examples

RT-10S

PD-128S



Cables included with the pad

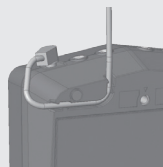
Stereo miniature phone plug

## DC IN jack



Connect the included AC adaptor here. If you're using the unit on battery power, disconnect the AC adaptor from the DC IN jack.

To prevent the inadvertent disruption of power to your unit (should the plug be pulled out accidentally), and to avoid applying undue stress to the DC IN jack, anchor the power cord using the cord hook, as shown in the illustration.



## MIDI (IN, OUT) connectors

Use these to connect MIDI devices such as V-Drums.

## Security slot (R)

<http://www.kensington.com/>

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

# Turning the Power On/Off

## 1. Hold down the [P] (power) button until the power turns on or off.

\* After you've made connections correctly, be sure to turn on the power in the order of the TM-2 first, and then the connected system. Powering-on in the incorrect order may cause malfunctions or damage. When turning the power off, power-off the connected system first, and then the TM-2.

\* 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.

\* 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.





# Connecting Pads

## Connecting Pads

To make connections, use the cables included with the pad or acoustic drum trigger.

\* Subsequently, acoustic drum triggers are called “drum triggers.” We use the term “pads” to include drum triggers.

### Connecting examples

Example	TRIG IN 1		TRIG IN 2	
	HEAD	RIM	HEAD	RIM
Use an RT-10K to enhance an acoustic kick, and add a PD-128S electronic second snare	 RT-10K	—	 PD-128S	—
Add a KD-7 kick trigger, and a BT-1 to start phrases	 KD-7	—	 BT-1	—

\* Choke play is not supported.

\* 3-way trigger for CY-15R, CY-13R are not supported.

## Pad Settings

1. Hold down the [SHIFT] button and press the [INST] button.
2. Press the [+] button, and then press the [>] button.

The TRIG SETUP–Type screen will appear.



3. Press the TRIG IN [1] or [2] button to select the pad for which you want to make settings.  
You can also select a pad by striking it.
4. Use the [-] [+] buttons to select the type of the pad that's connected.

If you connect a drum trigger, adjust the parameters as appropriate for how it's attached and how the head is stretched. → p. 16

5. Press the [INST] button several times to return to the kit screen.

The changes you've made will be saved automatically.

### Connecting two pads to one TRIG IN jack

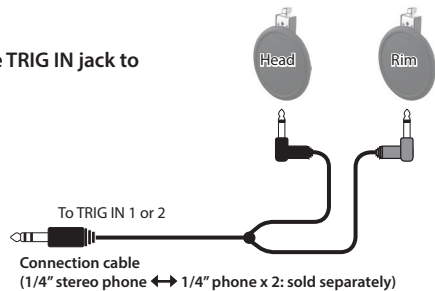
By using a connection cable (1/4" stereo phone plug ↔ 1/4" phone plug x 2: sold separately) you can connect two pads to one TRIG IN jack. This lets you use separate pads to play the head and rim of one TRIG IN jack.

\* With this connection, striking the rim of the pad won't produce sound.

1. Hold down the [SHIFT] button and press the [INST] button.
2. Press the [+] button.  
The TRIG SETUP–Input screen will appear.
3. Use the TRIG IN [1] [2] buttons to select the TRIG IN jack to which you connected the two pads.
4. Use the [-] [+] buttons to select “PADx2.”
5. Press the [>] button.

Strike the two pads to select them, and specify the type of each pad.

\* Satisfactory operation cannot be obtained if “BT-1” is selected as the type. When using a BT-1, select “BT-1 SENS” as the type.



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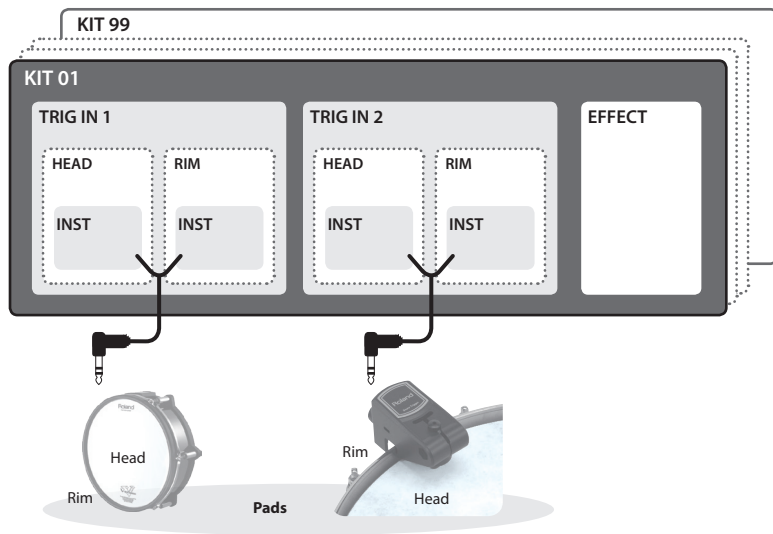
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# Selecting a Kit

Your choice of sounds (instruments) assigned to the connected pads are saved as a “kit.” The TM-2 lets you easily select and play 99 different kits.



## Selecting a Kit

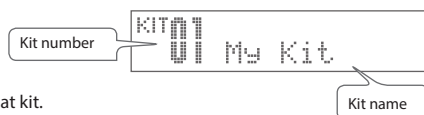
Immediately after the power is turned on, the display shows the “kit screen.”

\* If any other screen is shown, press the [INST] button several times to make the kit screen appear.

### 1. Press the [-] [+] buttons.

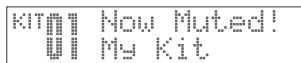
The selected kit will change.

When you strike the pads, you hear the instruments of that kit.



### Mute

In the kit screen, you can hold down the [<] button to turn on the mute function, so that striking a pad won't produce sound. This lets you prevent sound from being produced inadvertently. Press the [<] button once again to turn the mute function off.



### Sound off

By pressing the [<[>] buttons simultaneously you can stop the sounds that are being heard. This is a convenient way to stop a song or a loop. The sound of reverb or delay will continue.

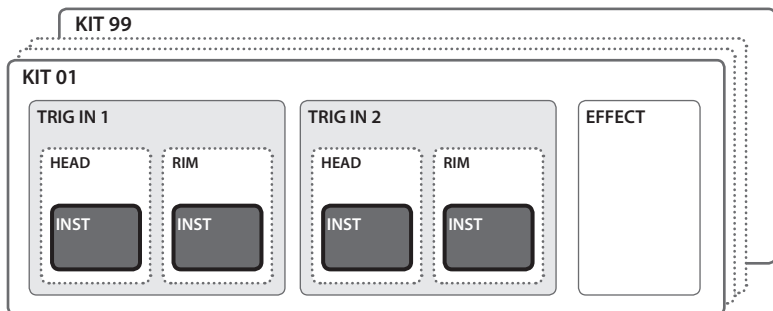
### Preview

By pressing the TRIG IN [1] or [2] button, you can play the instruments. To play the sound of the rim, hold down the [SHIFT] button and press the TRIG IN [1] or [2] button.



# Playing Sounds (Instruments)

In each kit, you can assign four instruments (inst) and play them from the pads.



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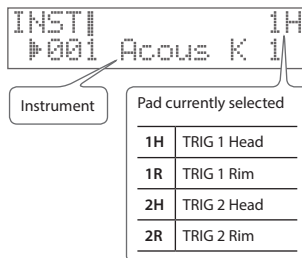
## Assigning Instruments to Pads

Here's how to assign the TM-2's internal instruments to the pads.

1. Use [-] [+] buttons to select a kit.
2. Press the [INST] button.  
The INST screen will appear.
3. Strike a pad to select the pad (head or rim) to which you want to assign an instrument.  
You can also use the TRIG IN [1] [2] buttons to select a pad.
4. Use the [-] [+] buttons to select the instrument that you want to play.

If the SD card contains audio files, the audio files on the SD card are shown following the internal instruments. ➔p. 10

If you press the [-] [+] buttons, the folder name is temporarily shown at the top of the screen.



### MEMO

By holding down the [SHIFT] button and pressing the [-] [+] buttons, you can switch between internal instruments (INT) and the SD card (SD). If folders exist, you can also switch folders.

5. Strike the pads to play the sounds.
  - You can switch instruments in the same way by striking a different pad.
  - You can change the volume or pitch. ➔p. 11
  - You can use effects to modify the sound. ➔p. 12
6. Press the [INST] button to return to the kit screen.  
The changes you've made will be saved automatically.

### Saving the settings you've edited

The instruments you've selected and the settings you've edited are saved automatically.

\* To turn off the power, be sure to press the (⏻) (power) button.

### "NO CARD" and "NO WAVE"

If the TM-2 can't produce sound because no SD card is inserted, the screen indicates "NO CARD." If the corresponding audio file is not found on the SD card, the screen indicates "NO WAVE." A confirmation screen appears when you attempt to change the instruments.

# Playing Audio Files

You can play your favorite audio files (WAV) by striking pads.  
You can use this to play drum sounds and sound effects, or even songs or loop phrases.



## Placing Audio Files on an SD Card

### Preparations

You'll need the following items.

- **Computer:** A computer that can read and write an SD card, such as a Windows or Mac. You might need to provide an SD card reader separately.
- **SD card, or SDHC card**
- **Audio files of the sounds that you want to play**  
Use your computer to prepare and edit the audio file to the following specifications.

Format	Extensions	Sampling Frequency	Bit Rate	Channels
WAV	.WAV, .wav	44.1 kHz	16 bits	Mono, Stereo

### 1. If you're using an SD card for the first time, insert the SD card into the TM-2 and format it. →p. 17

\* Prepare an SD card specifically for the TM-2. If the card is also used with another device, it might not work correctly with the TM-2.

### 2. Connect the SD card to your computer.

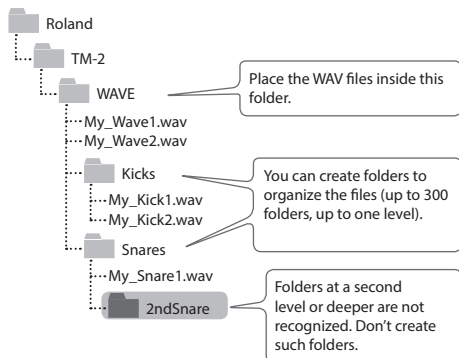
### 3. Place the audio files (WAV) in the Roland/TM-2/WAVE folder of the SD card.

\* You can create up to one level of folders inside the WAVE folder (a maximum of 300).

\* Each folder can contain up to 300 audio files.

\* File names containing double-byte characters (such as Japanese) are not displayed correctly by the TM-2.

\* If you rename or move the file, no sound can be produced, and the screen indicates "NO WAVE." You'll need to reassign the sound to the pad.



### 4. Insert the SD card into the TM-2's SD card slot.

\* Never insert or remove an SD card while this unit is turned on. Doing so may corrupt the data on the SD card.

\* In order to play audio files from the SD card, the SD card must remain inserted in the TM-2. If the SD card is not inserted, the screen indicates "NO CARD."

### 5. Assign audio files to pads as described in the procedure "Playing Sounds (Instruments)" (p. 9).

Audio files can be assigned to pads and edited (p. 11) just like the internal instruments.

\* Subsequently, internal instruments and audio files are collectively called "instruments."

\* Some SD card types or SD cards from some manufacturers may not play back properly on the TM-2.

\* The memory card write protect feature (LOCK)

The contents of the memory card can be protected by write protecting it. To write protect a card, slide the write protect switch on the side of the memory card to the "LOCK" position. Unlock write protect to delete data on the card.



# Editing the Instruments

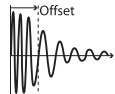
You can adjust a variety of settings (parameters) such as the instrument's volume and pitch. This process is called "editing." You can also edit the audio files on an SD card in the same way.

\* Editing will not modify the audio files that are on the SD card.

1. Use the [-] [+] buttons to select a kit.
2. Press the [INST] button.  
The INST screen will appear.
3. Use the [<] [>] buttons to select a parameter.



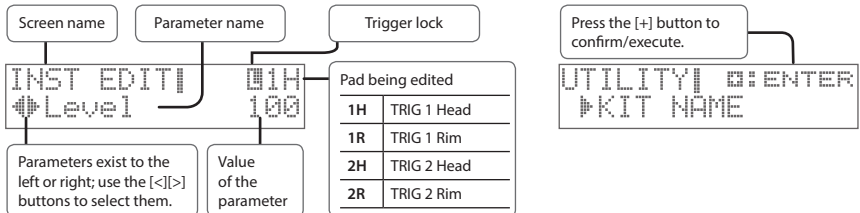
Parameter	Explanation
Level	Adjusts the volume.
Dynmcs	If you choose "LINEAR," the volume will change naturally according to the force of your strike. The settings "LOUD 1"~"LOUD 3" make it easier to produce loud sounds. The "MAX" setting fixes the sound at the maximum volume.
Pitch	Adjusts the pitch.
Pan	Adjusts the left/right position.
Loop	If this is "ON," the instrument will sound repeatedly. Strike the pad once to start the sound, and strike the pad again to stop the sound.
Mono/Poly	With the "POLY" setting, repeated strikes on the same pad will trigger multiple sounds that are overlaid. With the "MONO" setting, a repeated strike will turn off the currently-sounding note before playing the next note, so that the sounds will not be overlaid. This setting does not affect the way in which other pads produce sound. * If you turn Loop "ON," this setting is always "MONO."
Offset	Determines the point in the instrument waveform from which sounding is to occur. This setting can be used to adjust the attack portion, or to reduce the latency of sound production.
MuteGroup	Multiple pads whose MuteGroup is set to the same number will not sound simultaneously. For example if you've assigned the pads of phrase A and phrase B to the same MuteGroup number, triggering phrase A and then triggering phrase B will cause phrase A to stop.
Note#	Specifies the MIDI note number of this pad. This note number is transmitted when you strike the pad. When this note number is received, the pad produces sound.
EffectSend	Turns the kit effect on/off for each pad. ➔p. 12



\* Subsequent parameters are explained on p. 13.

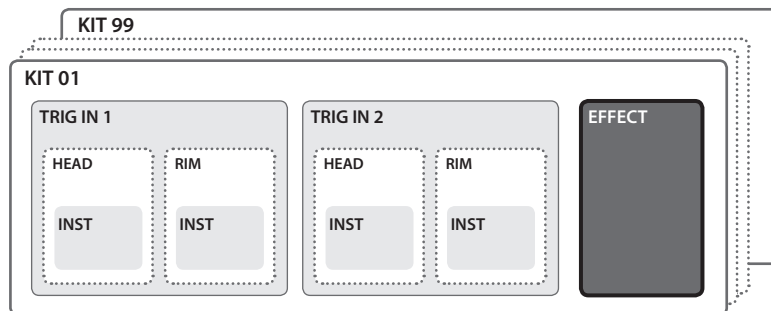
4. Strike a pad to select the pad (head or rim) that you want to edit.  
You can also use the TRIG IN [1] [2] buttons to select a pad.
5. Use the [-] [+] buttons to edit the value.
6. Press the [INST] button to return to the kit screen.

## Contents of the edit screen



# Using a Kit Effect

You can use a kit effect to modify the sound of the instruments. You can choose from numerous types such as effects that distort the sound, make it richer, or add cyclic modulation.



\* One kit can use only one type of kit effect.

## Selecting the Effect Type

Before you continue, turn on the “EffectSend” of each instrument to which you want the effect to apply. ➔p. 11

1. Use the [-] [+] buttons to select a kit.
2. Press the [INST] button.
3. Press the [>] button to select the “KIT EFFECT-Type.”
4. Use the [-] [+] buttons to select Type.



### Effect type

Type	Explanation
THRU	The effect won't be applied.
DELAY	Stereo delay
TAPE ECHO	A virtual tape echo that produces a realistic tape delay sound. This simulates the tape echo section of a Roland RE-201 Space Echo.
CHORUS	This applies a chorus effect.
FLANGER	The flanging effect gives a twisting, jet-airplane-like character to the sound.
PHASER	A phase-shifted sound is added to the original sound and modulated.
EQUALIZER	This adjusts the tone as an equalizer.
COMP	Flattens out high levels and boosts low levels, smoothing out fluctuations in volume.
WAH	This produces a wah effect by modifying the filter in correspondence with the volume of the performance.
DIST	This effect distorts the sound to create long sustain.
RINGMOD	This is an effect that applies amplitude modulation (AM) to the input signal, producing bell-like sounds. You can also change the modulation frequency in response to changes in the volume of the sound sent into the effect.
REVERB	Adds reverberation to the sound, simulating an acoustic space.

5. Press the [>] button to select an effect parameter, and use the [-][+] buttons to adjust the value. The effect parameters differ depending on the type. For details on the parameters ➔“Sound List” (PDF)

# Naming a Kit

Here's how to assign a name to a kit.

1. Use the [-] [+] buttons to select a kit.
2. Press the [INST] button.
3. Use the [>] button to select "UTILITY;" and press the [+] button.
4. Press the [+] button once again.  
The KIT NAME screen will appear.
5. Use the [<|>] buttons to select a character, and use the [-][+] buttons to change the character.  
The selected character blinks.

```
UTILITY| 0:ENTER  
▶KIT NAME
```

```
KIT NAME|  
▶[User Kit ]
```

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# Copying a Kit/Instrument Settings

You can copy a kit, or change the order of kits. You can also copy or exchange instruments between pads.

1. Press the [INST] button.
2. Use the [>] button to select "UTILITY" and press the [+] button.

```
UTILITY| 0:ENTER  
◀
```

## Copying/Exchanging Kits

3. Use the [<|>] buttons to select "KIT COPY" or "KIT EXCHANGE," and press the [+] button.  
The SRC screen will appear.
4. Use the [-] [+] buttons to select the copy-source (exchange-source) kit.  
\* By selecting "EMPTY KIT" you can initialize the kit.
5. Press the [>] button to access the DST screen, and use the [-] [+] buttons to select the copy-destination (exchange-destination) kit.
6. Press the [>] button.  
A confirmation screen will appear.  
To cancel the operation, press the [INST] button to return.
7. Press the [+] button.  
The kit will be copied or exchanged.

```
UTILITY| 0:ENTER  
◀▶KIT COPY
```

```
KIT COPY|SRC  
▶01:My Kit
```

```
KIT COPY|DST  
◀▶99:User Kit
```

## Copying/Exchanging Instrument Settings

3. Use the [<|>] buttons to select "INST COPY" or "INST EXCHANGE" and press the [+] button.  
The SRC screen will appear.
4. Strike a pad to select the copy-source (exchange-source).
5. Press the [>] button to access the DST screen, and strike a pad to select the copy-destination (exchange-destination).
6. Press the [>] button.  
A confirmation screen will appear.  
To cancel the operation, press the [INST] button to return.
7. Press the [+] button.  
The instrument setting will be copied or exchanged.

```
UTILITY| 0:ENTER  
◀▶INST COPY
```

```
INST COPY|SRC  
▶ TRIG1 HEAD
```

```
INST COPY|DST  
◀▶ TRIG2 RIM
```

# Overall Settings for the TM-2

Here's how to make overall settings that apply to the entire TM-2, such as display and MIDI channel.

1. Hold down the [SHIFT] button and press the [INST] button.
  2. Use the [←] [→] buttons to select "SYSTEM" and press the [+] button.
  3. Use the [←] [→] buttons to select a parameter that you want to edit.
  4. Use the [-] [+] buttons to change a value.
- \* INFO contains no editable values.
5. Press the [INST] button several times to return to the kit screen.

```
[SETUP] 0:ENTER
←SYSTEM
```

```
SYSTEM|LCD
←Contrast 5
```

Parameter		Explanation
LCD	Contrast	Adjusts the contrast of the display.
	Brightness	Adjusts the brightness of the display.
BATTERY	Type	Set this according to the type of batteries that you're using. ALKALINE: Alkaline battery NI-MH: Rechargeable Ni-MH battery
AUDIO	Limiter	If you want to apply a master limiter to the audio output, specify the threshold. With the "OFF" setting, the limiter is not applied. The default value is "OFF."
	OutGain	Adjusts the audio output volume. Raising this value will raise the volume, but the sound may be distorted. The default value is "0dB."
TRIG SW	TrgPreview	If this is "ON," instruments will sound when you press the TRIG IN [1] [2] buttons. The default value is "ON."
	Trig Lock	If this is "ON," striking a pad does not change the object being edited. The default value is "OFF." You can also turn this setting on/off by long-pressing the TRIG IN [1] or [2] button in the kit screen.
MIDI	MIDI Ch	Specifies the transmit and receive channels. The default value is "10."
	PrgChg Rx	If this is ON, incoming program change messages (kit number) will switch kits.
	PrgChg Tx	If this is ON, a program change message will be transmitted when you switch kits.
INFO	Version	This is system version.

## Restoring the Factory Settings

This restores the TM-2 to the original factory settings.

### NOTE

All internal settings of the TM-2 will be erased.

If you have settings that you want to keep, back them up to the SD card before you proceed. →p. 15

1. Hold down the [SHIFT] button and press the [INST] button.
2. Use the [←] [→] buttons to select "FACTORY RESET" and press the [+] button.

A confirmation screen will appear.

To cancel the operation, press the [INST] button to return.

3. Press the [+] button.

A confirmation screen will appear once again.

4. Press the TRIG IN [2] button.

All settings are returned to their factory-set condition.

```
[SETUP] 0:ENTER
←FACTORY RESET
```

# Saving a Backup to the SD Card

Backup will save all kits, all settings of the TM-2, and the pad and drum trigger settings. It is convenient to switch between backups when you're playing with different bands or at different live events.

1. Hold down the [SHIFT] button and press the [INST] button.

## Saving a Backup

2. Use the [<] [>] button to select "BACKUP SAVE" and press [+] button.

```
[SETUP] 0:ENTER  
◀▶BACKUP SAVE
```

3. Check the name of the backup, and if you want to change it, press the TRIG IN [2] button.

Assigning a name → "Naming a Kit" (p. 13) step 5

After renaming the backup, press the [INST] button to return.

```
SAVE NAME|  
▶ [MyBackup]
```

4. Press the [>] button.

5. Use the [-] [+] buttons to select a save-destination for the backup, and then press the [>] button.

```
SAVE DST|  
◀▶ 01:-----
```

A confirmation screen will appear.

6. Press the [+] button.

The backup will be saved.

If a backup already exists in that destination, a confirmation message will appear. Press the [+] button to

overwrite the existing backup. If you don't want to overwrite the existing backup, press the [<] button to return.

## Loading a Backup

7. Use the [<] [>] buttons to select "BACKUP LOAD" and press the [+] button.

```
[SETUP] 0:ENTER  
◀▶BACKUP LOAD
```

8. Use the [-] [+] buttons to select the number of the backup that you want to load.

9. Press the [>] button.

A confirmation screen will appear.

If you decide not to load the backup, press the [<] button to return.

```
BACKUP LOAD|  
▶ 01:MyBackup
```

### NOTE

When you load a backup, all settings inside the TM-2 will be erased.

10. Press the [+] button.

The backup will be loaded.

## Deleting a Backup

2. Use the [<] [>] button to select "BACKUP DELETE" and press the [+] button.

```
[SETUP] 0:ENTER  
◀▶BACKUP DELETE
```

3. Use the [-] [+] buttons to select the number of the backup that you want to delete.

4. Press the [>] button.

A confirmation screen will appear.

If you decide not to delete the backup, press the [<] button to return.

```
BACKUP DELETE|  
▶ 01:MyBackup
```

5. Press the [+] button.

The backup will be deleted.

\* All memory cards eventually wear out. We recommend that you consider the memory card not as a permanent storage site, but as a place to store data temporarily. We also recommend that you back up important data onto the another media that is supported by your unit.

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# Adjusting the Connected Pads

Here's how to adjust the connected pads or drum triggers.

If the "Input" and "Type" parameters are set correctly, the other parameters are set appropriately for the specified type. You can also make more detailed adjustments if you like.

If you've connected a drum trigger, adjust parameters such as "Threshold", "Curve", and "RetrgCancel" as appropriate for the way in which your drum trigger is attached and how the head is stretched. Please also refer to the owner's manual of your RT series unit.

## Adjusting Parameters for Each Pad

1. Hold down the [SHIFT] button and press the [INST] button.
2. Use the [<] [>] buttons to select "TRIGGER SETUP" and press the [+] button.
3. Use the [<] [>] buttons to select a parameter that you want to change.
4. Use the [-] [+] buttons to change the value.

```
[SETUP]  [ENTER]
▶ TRIGGER SETUP
```

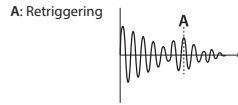
```
TRIG SETUP| 1HR
▶ Input HEAD&RIM
```

\* When you strike a pad, a parameter indicating the force of your strike is briefly displayed.

Parameter	Explanation
Input	Select the type of connection. If you use the cable included with the pad, choose "HEAD&RIM." If you use a connection cable (stereo 1/4" phone plug ↔ 1/4" phone plug x 2) to connect two pads, choose "PADx2." ▶p. 7
Type	Specifies the type of pad/drum trigger that's connected ▶p. 7 * If you change the type, the values of the following parameters (excluding XtlkCancel) are changed appropriately for the selected type. * "BT-1 SENS" is a type that allows you to enhance the sensitivity with respect to weaker strikes when using a BT-1. However, with this type there is a greater likelihood that false triggering will occur as the result of surrounding vibrations. For this reason, "BT-1" should be selected when performing phrase playback and the like. * "PAD1", "PAD2" are for generic pads.
Sens	You can adjust the sensitivity of the pads/drum triggers to accommodate your personal playing style. This allows you to have more dynamic control over the sound volume, based on how hard you play. Higher sensitivity allows the pad to produce a loud volume even when played softly. Lower sensitivity will keep the pad producing a low volume even when played forcefully.
Threshold	Increase this value if the pad is unwantedly triggered by ambient vibration. If this value is too high, soft strikes will not produce sound. You should set this to the lowest value that will not cause unintended triggering. In the illustration at right, 'B' will trigger a sound, but 'A' and 'C' will not. <div style="float: right; text-align: center;"> </div>
Curve	This setting allows you to control the relation between playing velocity (striking force) and changes in volume. <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> <p>The standard setting. This produces the most natural correspondence between playing dynamics and volume change.</p> </div> </div>
	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div> <p>Compared to LINEAR, a soft playing produces a greater change.</p>
	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div> <p>Very little dynamic response, making it easy to maintain strong volume levels.</p>



Parameter	Explanation
RetrgCancel	<p>This parameter prevents a single strike from triggering two notes (retriggering). In particular since a drum trigger produces an irregular waveform, the sound may also be triggered at point 'A' in the illustration. This phenomenon is more likely to occur while the waveform is decaying, and unintended triggering is prevented by detecting the irregularity of the waveform.</p> <p>While you continue striking the pad, gradually raise this value until retriggering no longer occurs. Excessively high settings of this parameter will cause missed notes during rolls.</p>
Rim Gain	<p>Adjusts the rim sensitivity of the following pads. Higher value allows the rim to produce a loud volume even when played softly. <b>PD series, PDX series, CY series, RT-10S, PAD1, PAD2</b></p>
H/R Adjust	<p>This adjusts how easily head shots and rim shots can be played on the pads and drum triggers listed below.</p> <p>If the rim shot sound is triggered when you strike the head strongly, raise this value. If the head sound is triggered when you strike a rim shot, lower this value. If the head sound is triggered when you strike the rim softly, lower this value.</p> <p><b>PD series (excluding PD-8), PDX series, RT-10S, PAD2</b></p>
XtlkCancel	<p>If multiple pads (or acoustic drums with drum trigger) are mounted on the same stand, the vibrations of your strike may inadvertently cause another pad (or drum trigger) to produce sound (crosstalk); you can adjust this parameter to prevent such crosstalk. For example if a pad B is inadvertently triggered when you strike a pad A, raise the XtlkCancel value of the pad B until crosstalk stops. If this parameter is set to an excessively high value, the pad B might fail to trigger if you strike the pad A and pad B simultaneously.</p>



## Formatting an SD Card

Here's how to format (initialize) an SD card.

### NOTE

When you format an SD card, all data on the SD card will be erased.

1. Hold down the [SHIFT] button and press the [INST] button.
2. Use the [<] [>] button to select "SD CARD FORMAT" and press the [+] button.  
Confirmation screen will appear.  
To cancel the operation, press the [INST] button to return.
3. Press the [+] button.  
Confirmation screen will appear again.
4. Press the TRIG IN [2] button again.  
SD card will be formatted.

```
[SETUP]  B:ENTER
[SD CARD FORMAT]
```

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# Troubleshooting

Problem	Items to check	Action	Page
<b>Problems with sound</b>			
No sound	Check whether you hear sound through headphones.	If you hear sound in the headphones, there is a problem with the connection cables or with the connected amp or speaker.	–
	Could muting be enabled?	Disable muting.	➔p. 8
A specific pad does not sound	Could the instrument be "OFF"?	Assign an instrument.	➔p. 9
	Could the instrument's "Level" be lowered?	Adjust the instrument's "Level."	➔p. 11
	Could the audio file have been deleted?	The sound will not be played if you have deleted, moved, or renamed the audio file. Assign a different instrument.	➔p. 10
A pad does not respond correctly	Is the pad connected correctly? Is the pad's "Type" set correctly?	Check the pad's connection cable. Set the pad's "Type."	➔p. 7
<b>Problems with SD card</b>			
Audio file does not play or is not shown	Is the audio file format correct?	Re-create the audio file in the correct format.	➔p. 10
	Is the audio file in the correct location?	Check the location of the audio file.	
	Could there be more than 300 audio files in the folder?	Keep the number of audio files in a folder to 300 or fewer. Do not create a second-level or lower folder.	
<b>Problems with MIDI</b>			
No sound	Is the MIDI channel set correctly?	Set the MIDI channels of the TM-2 and external MIDI device to the same setting.	➔p. 14
	Has the note number been set properly?	Set the pad's "Note#."	➔p. 11

# Error Messages

Message	Meaning	Action	Page
<b>SD card</b>			
UNSUPPORTED FORMAT	This audio file format is not supported.	Check the audio file's format, and file name extension.	➔p. 10
SD CARD FULL	The SD card does not have enough free space.	Either delete unneeded data, or use another SD card.	–
SD CARD BUSY	Data could not be read/written fast enough from/to the SD card.	Use a different SD card.	–
SD CARD LOCKED	The write protect switch of the SD card is set to "LOCK."	Move the write protect switch to unlock the card.	➔p. 10
SD CARD ERROR	The file is damaged. Alternatively, the SD card is not working correctly.	Check the file and the SD card. Format the SD card.	➔p. 17
NO SD CARD	No SD card is inserted.	Insert an SD card.	➔p. 5
<b>Battery</b>			
BATTERY LOW	There is no remaining battery capacity. The TM-2 has stopped operating.	Replace the batteries. Alternatively, connect the AC adaptor.	➔p. 4
<b>TM-2</b>			
SYSTEM ERROR	There is a problem with the internal system.	Contact your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.	–

# Main Specifications

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## Roland TM-2: Trigger Module



<b>Connectors</b>	OUTPUT (L/MONO, R) jacks: 1/4-inch phone type PHONES jack: Stereo miniature phone type TRIG IN jack x 2: 1/4-inch TRS phone type	MIDI (IN, OUT) connectors DC IN jack
<b>Interface</b>	SD/SDHC memory card (Max. 32 GB)	
<b>Power Supply</b>	AC adaptor, Rechargeable Ni-MH battery (HR6) or Alkaline battery (AA, LR6) x 4	
<b>Current Draw</b>	400 mA	
<b>Expected battery life under continuous use</b>	Rechargeable Ni-MH battery: Approx. 6 hours (When using batteries having a capacity of 2,000 mAh) Alkaline battery: Approx. 4.5 hours * The time may vary according to usage conditions, batteries used, and type of SD memory card used.	
<b>Dimensions</b>	135 (W) x 130 (D) x 59 (H) mm	5-3/8 (W) x 5-1/8 (D) x 2-3/8 (H) inches
<b>Weight</b> (excluding batteries and AC adaptor)	360 g	13 oz
<b>Accessories</b>	Owner's manual, Leaflet "USING THE UNIT SAFELY", AC adaptor, Mounting plate, Screw x 2	
<b>Options</b> (sold separately)	Acoustic drum triggers: RT series	Kicks: KD series
	Pads: PD series, PDX series, BT-1	Cymbals: CY series

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

### Copyrights

- The copyright of content in this product (the sound waveform data, style data, accompaniment patterns, phrase data, audio loops and image data) is reserved by Roland Corporation.
- Purchasers of this product are permitted to utilize said content (except song data such as Demo Songs) for the creating, performing, recording and distributing original musical works.
- Purchasers of this product are NOT permitted to extract said content in original or modified form, for the purpose of distributing recorded medium of said content or making them available on a computer network.

### Licences/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.
- The SD logo () and SDHC logo () are trademarks of SD-3C, LLC.
- This product contains eCROS integrated software platform of eSOL Co., Ltd. eCROS is a trademark of eSOL Co., Ltd. in Japan.
- Roland and V-Drums are either registered trademarks or trademarks 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.

## USING THE UNIT SAFELY

Please read this in conjunction with the leaflet "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.



#### 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.



### CAUTION

#### Handle batteries carefully

If used improperly, batteries may explode or leak and cause damage or injury. In the interest of safety, please read and observe the following precautions.



- Whenever the unit is to remain unused for an extended period of time, make a backup of any important data, and then remove the batteries.

#### 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.



- Included Parts: Screws (p. 4)

## IMPORTANT NOTES

### Power Supply

- The use of an AC adaptor is recommended as the unit's power consumption is relatively high. Should you prefer to use batteries, please use the rechargeable Ni-MH batteries, alkaline batteries.

### Power Supply: Use of Batteries

- If operating this unit on batteries, please use rechargeable Ni-MH batteries, alkaline batteries.
- If operating this unit on batteries, please disconnect the AC adaptor from this unit.
- Even if batteries are installed, the unit will turn off if you connect or disconnect the power cord from the AC outlet while the unit is turned on, or if you connect or disconnect the AC adaptor from the unit. When this occurs, unsaved data may be lost. You must turn off the power before you connect or disconnect the power cord or AC adaptor.

### 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.

### 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.

### Repairs and Data

- Before sending the unit away for repairs, be sure to make a backup of the data stored within it; or you may prefer to write down the needed information. Although we will do our utmost to preserve the data stored in your unit 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.

### Additional Precautions

- Any data stored within the unit can be lost as the result of equipment failure, incorrect operation, etc. To protect yourself against the irretrievable loss of data, try to make a habit of creating regular backups of the data you've stored in the unit.
- Roland assumes no liability concerning the restoration of any stored content that has been lost.
- Never strike or apply strong pressure to the display.
- 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.
  - To prevent damage from static electricity, discharge all static electricity from your person before handling the device.

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, 모든 지역에서 사용할 수 있습니다.

For C.A. US (Proposition 65)

### WARNING

This product contains chemicals known to cause cancer, birth defects and other reproductive harm, including lead.

2036-1 Nakagawa, Hosoe-cho, Kita-ku, Hamamatsu, Shizuoka 431-1304, Japan



**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 está 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-landene skal dette produkt opsamlles 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 merkinäyttö ilmaisee, että tuote on EU-maissa kerättävä erillään kotitalousjätteenä kunkin alueen voimassa olevien määräysten mukaisesti. Tällä merkinäytöllä varustettuja tuotteita ei saa hävittää kotitalousjätteen 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 sbíráán 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 za tohto produktu "vykoniť" oddelene od domového odpadu, podľa nariadení platných v konkrétnej krajine. Produkty s týmto symbolom sa nesmú vyhazovať spolu s domovým odpadom.
- EE** See sümbool näitab, et EL-i maades tuleb see toode olemprügist eraldi koguda, nii nagu on igas piirkonnas määratletud. Selle sümbooliga märgitud tooteid ei tohi ära visata koos olmeprügiga.
- LT** Šis simbolis rodo, kad ES kalyse šis produktas turi būti surenkamas atskirai nuo buitinių atliekų, kaip nustatyta kiekviename regione. Šiuo simboliu paženklinoti produktai neturi būti išmetami kartu su buitiniems atliekomis.
- LV** Šis simbols norāda, ka ES valstīs šo produktu jāievāc atsevišķi no mājsaimniecības atkritumiem, kā noteikts katrā reģionā. Produkts ar šo simbolu nedrīkst izmest kopā ar mājsaimniecības atkritumiem.
- SI** Ta simbol označuje, da je treba proizvod v državih EU zbirati ločeno od gospodinskih odpadkov, tako kot je določeno v vsaki regiji. Proizvoda s tem znakom ni dovoljeno odlagati skupaj z gospodinskimi 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 απορριπτούν 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。

**产品中有毒有害物质或元素的名称及含量**

部件名称	有毒有害物质或元素					
	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)	×	○	○	○	○	○
电子部件(印刷电路板等)	×	○	×	○	○	○
附件(电源线、交流适配器等)	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。  
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。  
因根据现有的技术水平，还没有什么物质能够代替它。

