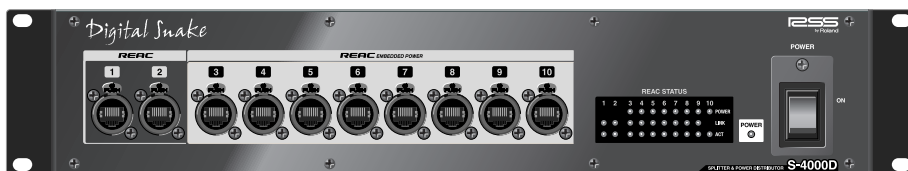


Digital Snake

SPLITTER & POWER DISTRIBUTOR **S-4000D**

Owner's Manual



Main Features

The S-4000D is a splitter and power distributor for use with the RSS Digital Snake System. Using this device enables you to do the following:

- **It permits you to split the master REAC device's input audio to a split REAC device.**
- **It enables you to extend REAC cables in lengths of 100 meters.**
- **This unit supplies power to REAC devices compatible with REAC EMBEDDED POWER.**

This unit is equipped with 8 REAC ports that supply power to REAC devices compatible with REAC EMBEDDED POWER.



REAC EMBEDDED POWER is a technology for using Cat5e cables to supply power as well as REAC audio signals. REAC devices compatible with REAC EMBEDDED POWER can accomplish REAC communication and power supply using just a connection via REAC cables, with no need to use an AC adaptor or AC power cord as the power source.

This unit automatically detects whether a REAC device connected to a REAC port from 3 to 10 is compatible with REAC EMBEDDED POWER. If the REAC device is found to be compatible with REAC EMBEDDED POWER, this unit automatically supplies power to it. Power is not supplied if the device is not compatible.

Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (p. 2), "USING THE UNIT SAFELY" (p. 3-4), and "IMPORTANT NOTES" (p. 5). These sections provide important information concerning the proper operation of the unit. Additionally, in order to ensure that you have gained a good grasp of every feature provided by your new unit, the Owner's manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.



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

 ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.




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.




USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠ WARNING and ⚠ CAUTION Notices








 WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
 CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols






	The ⚠ symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The ⚡ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The ⚡ symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

WARNING






- Connect mains plug of this model to a mains socket outlet with a protective earthing connection. 
- Do not open or perform any internal modifications on the unit. 
- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. 
- Never install the unit in any of the following locations.
 - Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are 
 - Damp (e.g., baths, washrooms, on wet floors); or are 
 - Exposed to steam or smoke; or are
 - Subject to salt exposure; or are
 - Humid; or are
 - Exposed to rain; or are
 - Dusty or sandy; or are
 - Subject to high levels of vibration and shakiness.
- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces. 
- The unit should be connected to a power supply only of the type described in the operating instructions, or as marked on the rear side of unit. 

WARNING











- Connect only specified devices (S-4000, S-1608, M-48, and other such RSS REAC products) to REAC ports 3 through 10 (REAC EMBEDDED POWER). 
- Use only the attached power-supply cord. Also, the supplied power cord must not be used with any other device. 
- Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards! 
- Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit. 

- Immediately turn the power off, remove the power cord from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:
 - The power-supply cord or the plug has been damaged; or
 - If smoke or unusual odor occurs
 - Objects have fallen into, or liquid has been spilled onto the unit; or
 - The unit has been exposed to rain (or otherwise has become wet); or
 - The unit does not appear to operate normally or exhibits a marked change in performance.

USING THE UNIT SAFELY

WARNING

- When using this device in an environment where children are present, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit. 
- Protect the unit from strong impact. (Do not drop it!) 
- Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through. 
- Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. 
- Do not put anything that contains water (e.g., flower vases) on this unit. Also, avoid the use of insecticides, perfumes, alcohol, nail polish, spray cans, etc., near the unit. Swiftly wipe away any liquid that spills on the unit using a dry, soft cloth. 

CAUTION

- The unit should be located so that its location or position does not interfere with its proper ventilation. 
- Always grasp only the plug on the power-supply cord when plugging into, or unplugging from, an outlet or this unit. 
- At regular intervals, you should unplug the power plug and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire. 
- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children. 
- Never climb on top of, nor place heavy objects on the unit. 
- Never handle the power cord or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit. 
- Before moving the unit, disconnect the power plug from the outlet, and pull out all cords from external devices. 
- Before cleaning the unit, turn off the power and unplug the power cord from the outlet. 
- Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet. 
- Keep the grounding terminal screw you may remove, and the included REAC connector covers and rubber feet in a safe place out of children's reach, so there is no chance of them being swallowed accidentally. 

IMPORTANT NOTES

Power Supply

- Do not connect this unit to the same electrical outlet that is being used by an electrical appliance that is controlled by an inverter (such as a refrigerator, washing machine, microwave oven, or air conditioner), or that contains a motor. Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.
- Although the LEDs are switched off when the POWER switch is switched off, this does not mean that the unit has been completely disconnected from the source of power. If you need to turn off the power completely, first turn off the POWER switch, then unplug the power cord from the power 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.

Placement

- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.
- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.
- 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 with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

- Use a reasonable amount of care when using the unit's switch and when using its jacks and ports. Rough handling can lead to malfunctions.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- A small amount of heat will radiate from the unit during normal operation.
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

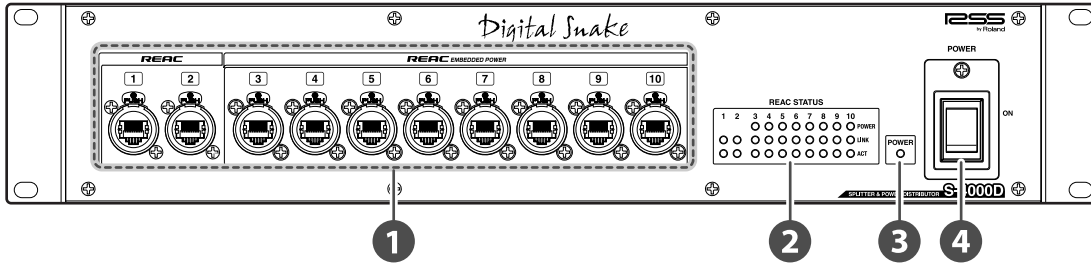
* Neutrik and EtherCon are registered trademarks of Neutrik, Inc.

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Panel Descriptions

Front Panel



1 REAC Ports 1–10

You can connect the master REAC device to the desired REAC port and split its output to other REAC ports.

REAC ports 3 to 10 are compatible with REAC EMBEDDED POWER, and can supply power to devices compatible with REAC EMBEDDED POWER.

When a REAC device is connected, the system automatically detects whether the device is compatible with REAC EMBEDDED POWER and supplies power if compatible.

Power is not supplied if the device is not compatible with REAC EMBEDDED POWER.

2 POWER/LINK/ACT Indicators

These indicate the status of the ports. The indicators function as follows.

Status	Indicator		
	Red (POWER)	Green (LINK)	Yellow (ACT)
With nothing connected	Off	Off	Off
When supplying power to a REAC EMBEDDED POWER device	Lit	–	–
When enabled for transmission	–	Lit	Lit
When communicating with another REAC device	–	Flashing	Lit

3 POWER Indicator

Powering up the unit makes the POWER indicator light up.

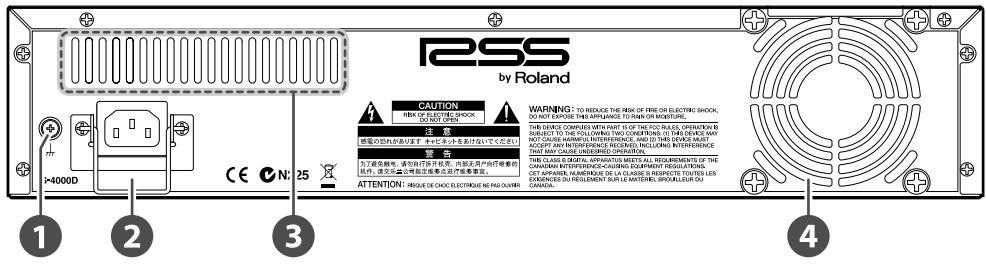
4 [POWER] Switch

This switches the power on and off.

NOTE

- Never connect any equipment other than REAC devices to REAC ports 3 through 10.
- REAC ports 1 and 2 do not support REAC EMBEDDED POWER.
Connect devices compatible with REAC EMBEDDED POWER to REAC ports 3 through 10.

Rear Panel



1 Grounding Terminal

If necessary, use this terminal to connect the S-4000D chassis to an external grounding source.

* Never attempt to use the following sources for an external ground 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)

2 AC INPUT

Connect the supplied power cord here.

Secure the power cord with the cord clamps (p. 9) to prevent accidental disconnection of the cords.

3 Air Intake Vents 4 Cooling Fan Exhaust Vents

The S-4000D contains cooling fans that prevent the unit from overheating. The air intake vents provide fresh air for the cooling fans and the fans expel hot air through these vents.

* Clean away any buildup of dust in the intake port or ventilation port using a vacuum cleaner or the like.

NOTE

Be sure never to block the cooling fan exhaust vents and air intake vents. Doing so may cause the S-4000D to overheat and be damaged.

Turning the Power On and Off

Connecting the Power Cord

Connect one end of the supplied AC power cord to a grounded AC outlet, and the other end to the AC INPUT connector to provide power for the S-4000D's internal power supply.

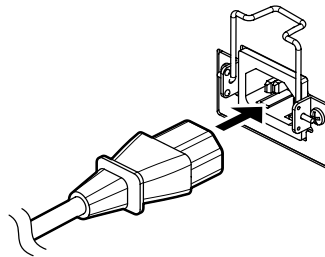
NOTE

Use only the supplied power cord to prevent damage to the units.

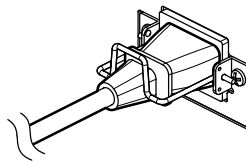
Attaching the Power Cord Clamp

To prevent the power cord from being unplugged inadvertently, you should secure the power cord in place using the power cord clamp.

- 1 Lift up the power cord clamp, then insert the power cord into AC INPUT on the rear panel.**



- 2 Lower the power cord clamp to secure the power cord plug.**



Turning the Power On and Off

Turning the Power On

Once the connections have been completed, turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

- 1 Connect the peripheral devices.**
- 2 Set the [POWER] switch on the unit's front panel to ON to switch on the power.**
- 3 Turn on the power to the peripheral devices.**

* REAC devices compatible with REAC EMBEDDED POWER may have no power switch. In such cases, the power is switched on automatically when the device is connected to the unit.

NOTE

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections

Turning the Power Off

- 1 Turn off the power to the peripheral devices.**
- 2 Set the [POWER] switch on the unit's front panel to OFF to switch off the power**

* If you need to turn off the power completely, first turn off the POWER switch, then unplug the power cord from the power outlet. Refer to "Power Supply" (p. 5)

NOTE

Switching off the power to the unit also stops the supply of power to any REAC devices compatible with REAC EMBEDDED POWER that are connected to the unit.

About Placement

Important Notes When Installing

Cooling-fan Intake Port and Ventilation Port

This unit performs forced cooling by means of a cooling fan. Give attention to the following points.

- Never block the cooling-fan intake port or ventilation port in the rear panel. Doing so may cause the temperature of the unit's interior to rise, resulting in malfunction caused by heat.
- Clean away any buildup of dust in the intake port or ventilation port using a vacuum cleaner or the like.

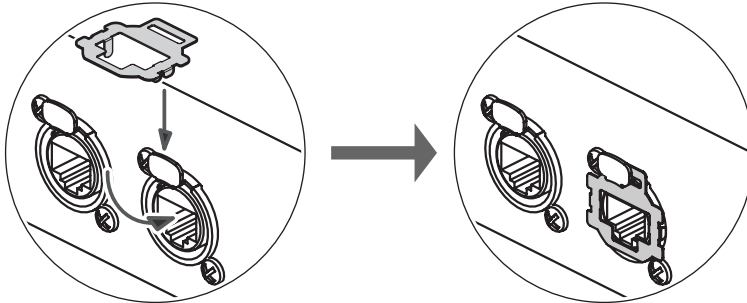
When Installing in a Rack

- This unit can be installed in a rack. When installing the unit in a rack, to ensure efficient cooling, give attention to the following points.
 - Ensure that the location provides good air flow and ventilation.
 - Never block the cooling-fan intake port or ventilation port in the rear panel.
 - Avoid using the S-4000D in sealed-type rack mounts. As this type of rack does not permit heated air within the rack to be expelled, the heated air is drawn into the S-4000D as a result, thus preventing adequately efficient cooling.
 - If the rack's rear panel is not removable, ensure that a ventilation port or exhaust fan is provided at the top of the rack's rear panel to expel any accumulated heat.
 - If the S-4000D is mounted in a portable rack, remove both the front and rear rack covers before use to ensure that the S-4000D's front and rear panels remain unobstructed.
 - When installing the unit on a rack, detach the rubber feet from the bottom of the unit.
- Use due caution when mounting the S-4000D in a rack or other enclosure so you don't get your fingers wedged or pinched.

Using the REAC Connector Covers

If using commercially available Cat5e Ethernet cables, attach the supplied REAC connector covers to the connectors.

* Attaching the REAC connector covers is a necessary measure to counter electromagnetic noise.



MEMO

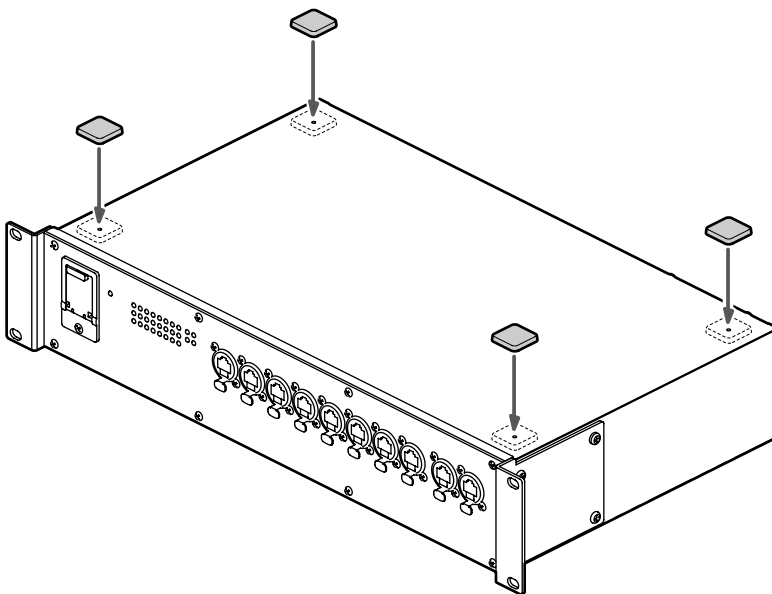
Remove the REAC connector covers if you are using REAC cables with EtherCon type connectors.

Take care not to lose the REAC connector covers removed at this time.

Attaching the Rubber Feet

Attach the rubber feet when not rack mounting the unit.

Peel off the backing from the double-sided adhesive tape on the rubber feet and attach the feet at the points indicated in the figure below.



Notes to Observe in Using the REAC System

Concerning REAC Cables and Their Handling

The REAC cables used in digital snake systems employ computer network technology to enable transmission of multichannel audio signals.

In very rare cases, however, noise may be generated when these systems are used in certain environments. If noise is present, check the following points.

- Ensure that cables used for REAC connections conform to the Cat5e (Ethernet Category 5) standard.
- No single cable should be longer than 100 meters.
- Do not use cables with cut or torn coverings.
- Do not subject cables to undue stress.
- Do not wind or bend cables such that the radius of the turn is 25 mm or less, and do not double cables over.
- Do not bind cables tightly into bundles.

MEMO

To maintain the transmission quality of REAC digital communication, use the following optional items as 100-meter and 20-meter REAC cables.

100-meter REAC cables

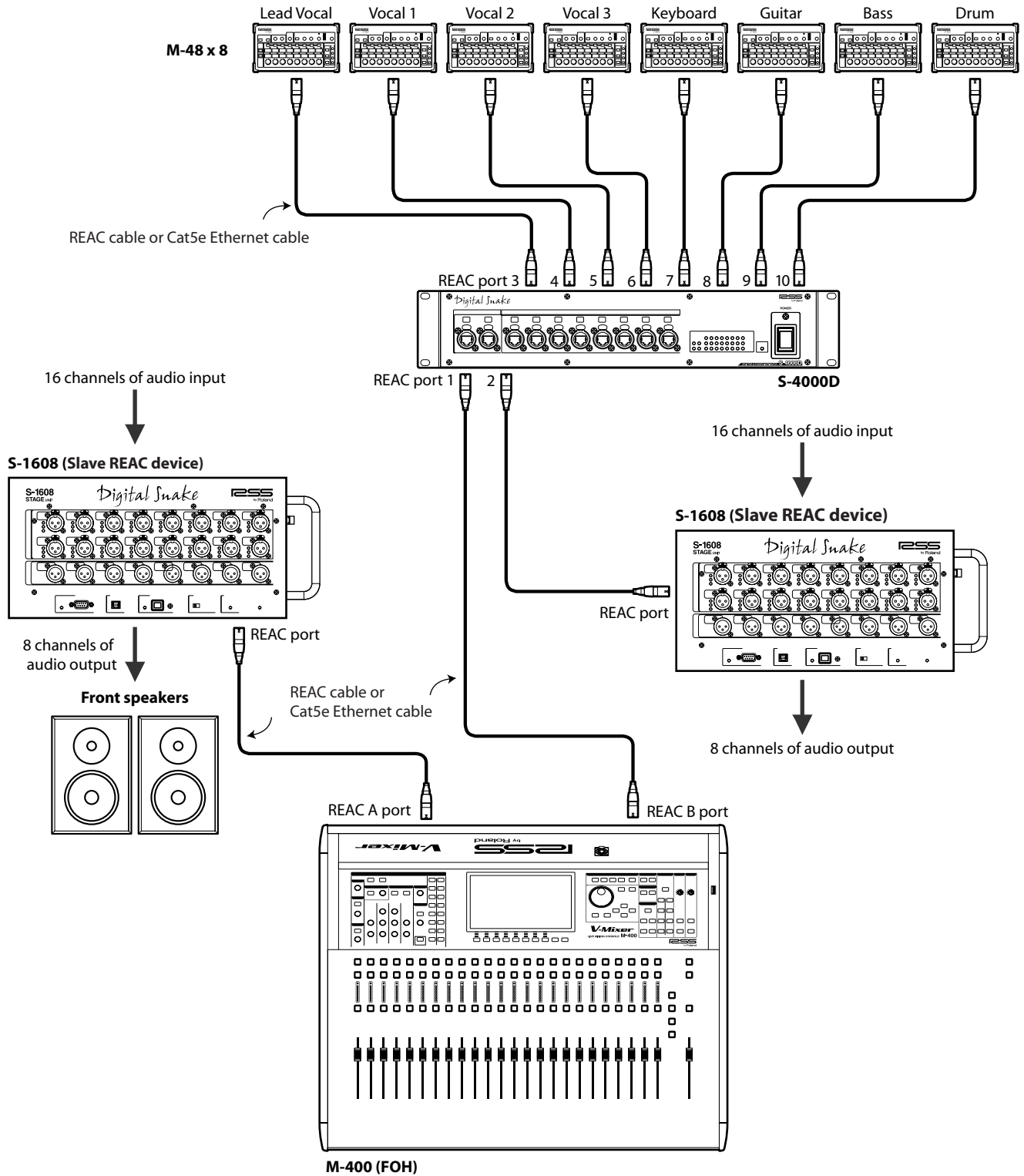
- SC-W100S
- W100S-R

20-meter REAC cables

- SC-W20F

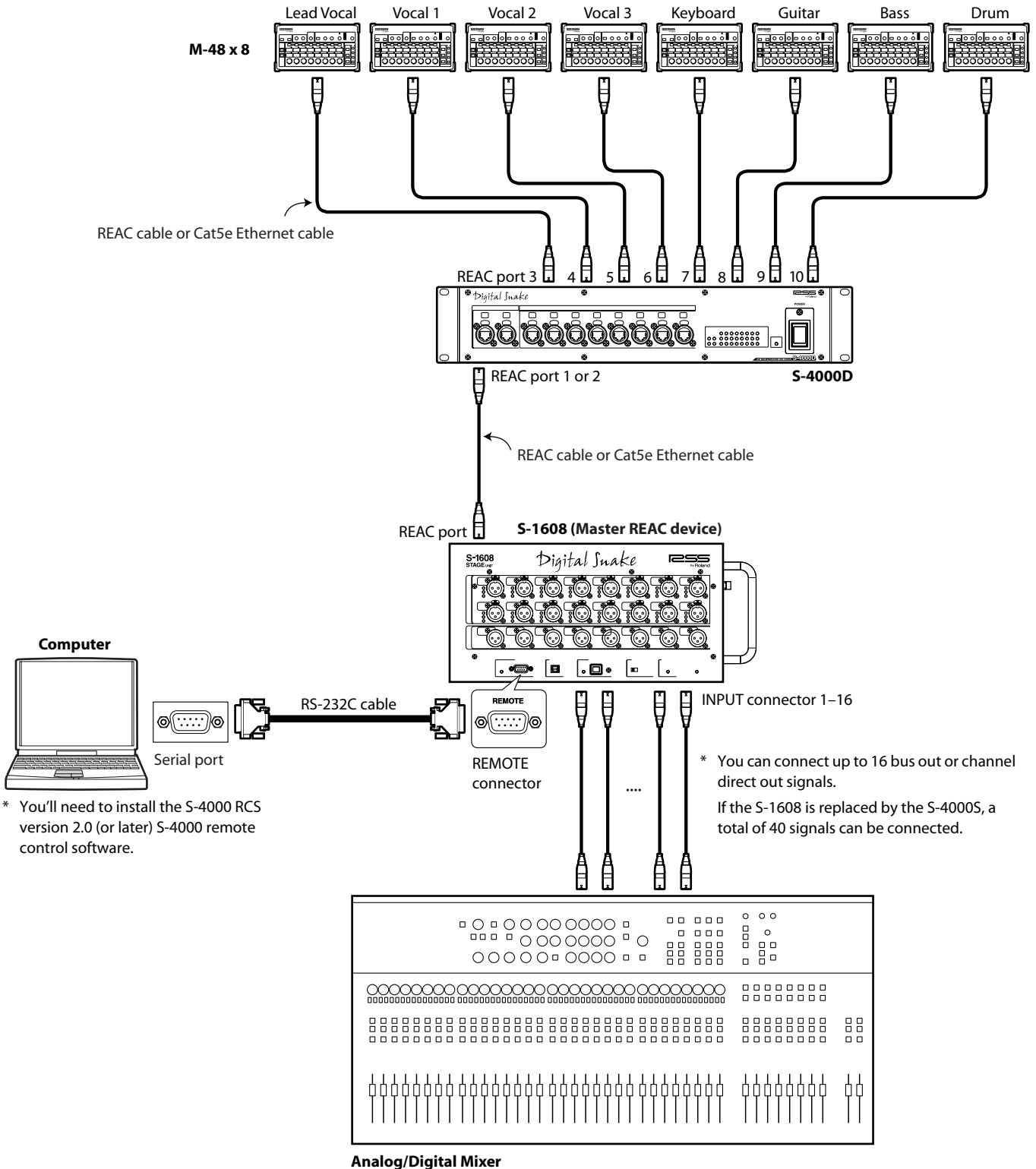
System Connection Example

Connecting the S-4000D to a V-Mixing System



- * The M-400 must be running system software version 2.0 or later.
- * The M-48 can be set and managed from the M-400 only if the M-48 is connected to the M-400's REAC B port via the S-4000D.
- * In order to maintain the transmission quality of the digital REAC signal, use fully approved Cat5e Ethernet cable such as the 20 meter or 100 meter REAC cables (SC-W20F/SC-W100S/W100S-R; sold separately).

Connecting the S-4000D to an Analog Mixer System



* You'll need to install the S-4000 RCS version 2.0 (or later) S-4000 remote control software.

* You can connect up to 16 bus out or channel direct out signals. If the S-1608 is replaced by the S-4000S, a total of 40 signals can be connected.

- * The S-1608 system must be running system software version 2.0 or later. If you're using the S-4000 system, the S-4000 system must be running system software 2.1 or later.
- * In order to maintain the transmission quality of the digital REAC signal, use fully approved Cat5e Ethernet cable such as the 20 meter or 100 meter REAC cables (SC-W20F/SC-W100S/W100S-R; sold separately).

Main Specifications

Connectors	REAC port: (RJ-45 EtherCon type) x 2 REAC EMBEDDED POWER port: (RJ-45 EtherCon type) x 8
Indicators	REAC EMBEDDED POWER: Red x 8 LINK: Green x 10 ACT: Yellow x 10 POWER: Blue x 1
Power Supply	AC 115 V, AC 117 V, AC 220 V, AC 230 V, AC 240 V (50/60 Hz)
Power Consumption	2.2A / AC 115 V / AC 117V 1.2A / AC 220 V / AC 230 V / 240 V * At Maximum REAC EMBEDDED POWER
Dimensions	482.0 (W) x 285.0 (D) x 87.8 (H) mm 19 (W) x 11-1/4 (D) x 3-1/2 (H) inches
Weight	4.2 kg 9 lbs 5 oz
Operation Temperature	0 to +40 degrees centigrade +32 to +104 degrees Fahrenheit
Accessories	Power Cord x 1, REAC Connector Cover x 10, Rubber Foot x 4, Owner's Manual x 1

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

Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

ASIA

INDONESIA

PT. Citra IntiRama
JL. Cideng Timur No. 15J-15O
Jakarta Pusat
INDONESIA
TEL: (021) 632-4170

CHINA

Roland Shanghai Electronics Co.,Ltd.
5F. No.1500 Pingliang Road
Shanghai 200090, CHINA
TEL: (021) 5580-0800

Roland Shanghai Electronics Co.,Ltd. (BEIJING OFFICE)

10F. No.18 3 Section Anhuaxili
Chaoyang District Beijing
100011 CHINA
TEL: (010) 6426-5050

KOREA

KOREA AVICS CO., LTD.
Unit B-2208, Woolimblue9,
#240-21, Yeomchang-dong,
Gangseo-gu, Seoul, Korea
Tel: 02-322-3264

TAIWAN

ROLAND TAIWAN
ENTERPRISE CO., LTD.
Room 5, 9F. No. 112 Chung Shan
N.Road Sec.2, Taipei, TAIWAN,
R.O.C.
TEL: (02) 2561 3339

SINGAPORE/ MALAYSIA

Roland Asia Pacific Sdn.
Bhd.
45-1, Block C2, Jalan PJU 1/39,
Dataran Prima, 47301 Petaling
Jaya, Selangor, MALAYSIA
TEL: 3-7805-3263

CENTRAL/LATIN AMERICA

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Roland Brasil Ltda.
Rua San Jose, 211
Parque Industrial San Jose
Cofia - Sao Paulo - SP, BRAZIL
TEL: (011) 4615 5666

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Roland Systems Group U.S.
425 Sequoia Drive Suite 114,
Bellingham, Washington,
98226 USA
TEL: 360-594-4282

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Roland Iberia, S.L.
Paseo Garcia Faria, 33-35
08005 Barcelona SPAIN
TEL: 93 493 91 00

CROATIA

ART-CENTAR
Degenova 3.
HR - 10000 Zagreb
TEL: (1) 466 8493

CZECH REP.

CZECH REPUBLIC
DISTRIBUTOR s.r.o.
Votárova 247/16
CZ - 180 00 PRAHA 8,
CZECH REP.
TEL: (2) 830 20270

DENMARK

Roland Scandinavia A/S
Nordhavnsvej 7, Postbox 880,
DK-2100 Copenhagen
DENMARK
TEL: 3916 6200

FINLAND

Roland Scandinavia As,
Filial Finland
Elannontie 5
FIN-01510 Vantaa, FINLAND
TEL: (09) 68 24 020

HUNGARY

Roland East Europe Ltd.
Warehouse Area 'DEPO' Pf.83
H-2046 Torokbalint, HUNGARY
TEL: (23) 511011

NORWAY

Roland Scandinavia Avd.
Kontor Norge
Lilleakerveien 2 Postboks 95
Lilleaker N-0216 Oslo
NORWAY
TEL: 2273 0074

POLAND

ROLAND POLSKA SP. Z O.O.
ul. Kty Grodziskie 16B
03-289 Warszawa, POLAND
TEL: (022) 678 9512

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535500 Cheorgheni, ROMANIA
TEL: (266) 364 609

RUSSIA

MuTek
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TEL: (095) 981-4967

SLOVAKIA

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SWEDEN

Roland Scandinavia A/S
SWEDISH SALES OFFICE
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S-131 30 Nacka SWEDEN
TEL: (08) 702 00 20

UKRAINE

EURHYTHMICS Ltd.
P.O.Box: 37-a.
Nedecey Str. 30
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UKRAINE
TEL: (03131) 414-40

UNITED KINGDOM/ IRELAND

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Enterprise Park, Swansea
SA7 9FJ,
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OCEANIA

AUSTRALIA/ NEW ZEALAND

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As of Jan. 1, 2009 (RSS)

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-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 szimbóllal ellátott terméket 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 vyhazovať spolu s domovým odpadom.
- EE** See sümbol näitab, et EL-i maades tuleb see toode olempriigist eraldi koguda, nii nagu on iga 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 buitiniems atliekomis.
- LV** Šis simbols norāda, ka ES valstīs šo produktu jāievāc atsevišķi no mājsaimniecības atkritumiem, kā noteikts katrā reģionā. Produktaus ar šo simbolu nedrīkst izmest kopā ar mājsaimniecības atkritumiem.
- SI** Ta simbol označuje, da je treba proizvod v državah EU zbirati ločeno od gospodinjjskih odpadkov, tako kot je določeno v vsaki regiji. Proizvoda s tem znakom ni dovoljeno odlagati skupaj z gospodinjjskimi 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。



For EU Countries

This product complies with the requirements of EMCD 2004/108/EC and LVD 2006/95/EC.

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.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.
This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

For C.A. US (Proposition 65)

WARNING

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