



KATANA-50

KTN-50 50 W output, 30 cm (12 inch) speaker



KATANA-100

KTN-100 100 **W output, 30 cm (12 inch) speaker**



KATANA-100/212

KTN100/212 100 W output, 30 cm (12 inch) speaker x 2



KATANA-HEAD

KTN-HEAD 100 W output, 12 cm (5 inch) speaker

Owner's Manual

Guitar Amplifier



This owner's manual applies to the KATANA-50. KATANA-100, KATANA-100/212, and KATANA-HEAD.

A 50/100 only , 100/HEAD only , or HEAD only icon will be used to mark explanations that pertain only to a specific model.

* All operating methods and panel specifications are common between the KATANA-100 and the KATANA-100/212.

BOSS Guitar Amp "KATANA"

An all-in-one guitar amp that's ideal for live performance

Main Features

- Four original amp sounds are provided: a "brown sound" that's ideal for rock and inherits an edge from the BOSS WAZA HEAD, in addition to clean, crunch, and lead.
- Simple operation and high-quality BOSS effects are built-in (three can be used simultaneously). In addition to simple operation from the amp itself, you can use the dedicated software to edit the settings from your PC.
- The power control function lets you adjust the amp sound to the desired volume, and standby (MUTE) is also provided
- A dedicated acoustic amp that can also be used for acoustic guitar is built-in as well
- The combo amp models are equipped with a cabinet tilt mechanism that allows easier monitoring while you play (KATANA-50, KATANA-100, KATANA-100/212)
- The head amp model is equipped with a small speaker that allows practicing without requiring a speaker unit to be connected (KATANA-HEAD)
- You can connect a GA-FC (except for the KATANA-50) or FS series footswitch to control functions using your foot
- The compact and sturdy cabinets are designed for easy transport

USING THE UNIT SAFELY

Before using this unit, carefully read the sections entitled "IMPORTANT SAFETY INSTRUCTIONS" (inside front cover), "USING THE UNIT SAFELY" (p. 2), and "IMPORTANT NOTES" (p. 3). 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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INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About A WARNING and ACAUTION Notices

⚠ 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

Make sure that the power cord is grounded

Connect mains plug of this model to a mains socket outlet with a protective earthing connection.



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

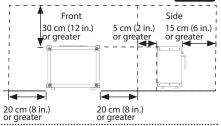


pull out the plug from the outlet. For this reason, the outlet into which you choose to connect the power cord's plug should be one that is within easy reach and readily accessible.

Secure a sufficient amount of space at the setup location

Since this unit normally emits a slight amount of heat, make sure to secure sufficient space around it, as shown below.





Do not disassemble or modify by yourself

Do not carry out anything unless you are instructed to do so in the owner's manual. Otherwise, you risk causing malfunction.



Do not repair or replace parts by yourself

Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information."



! WARNING

Do not use or store in the following types of 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
- Exposed to rain; or are
- Dusty or sandy; or are
- · Subject to high levels of vibration and shakiness; or are
- Placed in a poorly ventilated location.

Do not place in an unstable location

Otherwise, you risk injury as the result of the unit toppling over or dropping down.



Connect the power cord to an outlet of the correct voltage

The unit should be connected to a power supply only of the type described as marked on the rear side of unit.



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.



Do not bend the power cord or place heavy objects on it

Otherwise, fire or electric shock may result.



Avoid extended use at high volume

Use of the unit at high volume for extended periods of time may cause hearing loss. If you ever experience any hearing loss or ringing in the ears, you should immediately stop using the unit and consult a specialized physician.



! WARNING

Do not allow foreign objects or liquids to enter unit; never place containers with liquid on unit

Do not place containers containing liquid (e.g., flower vases) on this product. Never allow foreign objects (e.g., flammable objects, coins, wires) or liquids (e.g., water or juice) to enter this product. Doing so may cause short circuits, faulty operation, or other malfunctions.





Turn off the unit if an abnormality or malfunction occurs

Immediately turn the unit 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" when:



- The power cord has been damaged; or
- · If smoke or unusual odor occurs; or
- 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.

Be cautious to protect children from injury

Always make sure that an adult is on hand to provide supervision and guidance when using the unit in places where children are present, or when a child will be using the unit.



Do not drop or subject to strong impact

Otherwise, you risk causing damage or malfunction.



Do not share an outlet with an unreasonable number of other devices

Otherwise, you risk overheating or fire.

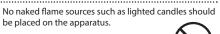


Do not use overseas

Before using the unit in overseas, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information."



The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table-cloths, curtains etc.



Use the apparatus in moderate climates.



CAUTION

When disconnecting the power cord, grasp it by the plug

To prevent conductor damage, always grasp the power cord by its plug when disconnecting it.



Periodically clean the power plug

An accumulation of dust or foreign objects between the power plug and the power outlet can lead to fire or electric shock. At regular intervals, be sure to pull out the power plug, and using a dry cloth, wipe away any dust or foreign objects that may have accumulated.



Fire may result in the unlikely event that a breakdown occurs.

•••••



!\ CAUTION

Route all power cords and cables in such a way as to prevent them from getting entangled

Injury could result if someone were to trip on a cable and cause the unit to fall or topple.



Avoid climbing on top of the unit, or placing heavy obiects on it

Otherwise, you risk injury as the result of the unit toppling over or dropping down.



Never connect/disconnect a power plug if your hands are wet

Otherwise, you could receive an electric shock.



power plug from the outlet, and pull out al cords from external devices.



CAUTION

Before cleaning the unit, disconnect the power plug from the outlet

If the power plug is not removed from the outlet, you risk receiving an electric shock.



Whenever there is a threat of lightning, disconnect the power plug from the outlet

If the power plug is not removed from the outlet, you risk causing malfunction or receiving an electric shock.

•••••



Disconnect all cords/cables before moving the unit

Before moving the unit, disconnect the



IMPORTANT NOTES

Power Supply

Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter or a motor (such as a refrigerator, washing machine, microwave oven, or air conditioner). 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.

Placement

- · Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This unit may interfere with radio and television reception. Do not use this unit in the vicinity of such
- 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.
- 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.
- Do not place containers or anything else containing liquid on top of this unit. Also, whenever any liquid has been spilled on the surface of this unit, be sure to promptly wipe it away using a soft, dry cloth.

Maintenance

Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

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.
- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- · When 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
- · A small amount of heat will radiate from the unit during normal operation
- To avoid disturbing others nearby, try to keep the unit's volume at reasonable levels.
- Use only the specified expression pedal. By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.
- · Do not use connection cables that contain a built-in resistor.

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- · This product contains eParts integrated software platform of eSOL Co.,Ltd. eParts is a trademark of eSOL Co., Ltd. in Japan.
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Panel Descriptions

Top Panel

KATANA-50



KATANA-100, KATANA-100/212, KATANA-HEAD



- 1 INPUT jack
 - Connect your electric guitar here.
- 2 AMPLIFIER

[AMP TYPE] knob

Selects the amp type. All provided amp types are original.

Туре	Explanation			
BROWN	A lead sound with an edge inherited from the BOSS WAZA			
DROWN	brown sound.			
LFAD	Different gain settings allow this sound to cover a wide			
LEAD	range from crunch to high-gain.			
CDUNCU	A fat crunch sound that faithfully responds to the nuances			
CRUNCH	of your picking.			
CLEAN	A clean and natural sound. In conjunction with BOOSTER,			
	it can be used for solo or lead.			
ACCUICTIC	A dedicated acoustic guitar amp that supports connection			
ACOUSTIC	of an acoustic guitar.			

[GAIN] knob

Adjusts the gain (amount of distortion).

[VOLUME] knob

Adjusts the volume.

3 EQUALIZER

[BASS] knob

Adjusts the sound level of the low-frequency range.

[MIDDLE] knob

Adjusts the sound level of middle-frequency range.

[TREBLE] knob

Adjusts the sound level of the high-frequency range.

4 EFFECTS

Here you can make settings for the built-in effects. For details on the effect types and settings for each knob, refer to "Using the Effects" (p. 8).

[BOOSTER/MOD] button/knob

Controls distortion-type effects and modulation effects.

[DELAY/FX] button/knob

Controls effects such as delay, wah, tremolo, and octave.

[TAP] button/knob

Sets the delay time. When you press this button two or more times, the delay time is set to the interval between presses.

......

[REVERB] button/knob

Controls the reverb.

5 [PRESENCE] knob 100/HEAD only

Adds lustrous outline to the mid- and high-frequency range. This is effective when you want to improve the definition of the sound.

6 [MASTER] knob

Adjusts the overall volume.

7 [POWER CONTROL] switch

Lets you switch the output level of the power amp according to your location or needs. By selecting "STANDBY" you can mute the sound while leaving the unit powered-on. This lets you mute the amp without changing the volume or other settings when you leave the stage, such as between sets of your live performance.

8 TONE SETTING

Here you can store or recall sounds that you've set up on the panel.

[CH 1]-[CH 4] buttons

The [CH 1]–[CH 4] buttons (CH 1–CH 2 on the KATANA-50) remember the settings of all top panel knobs (except for the [MASTER] knob) and buttons. When you press and hold a button for one second, the panel settings are stored.

* You can make the settings back to the factory state by turning the power on while holding down the [PANEL] button.

[PANEL] button

Makes the unit sound using the current settings of the panel knobs.

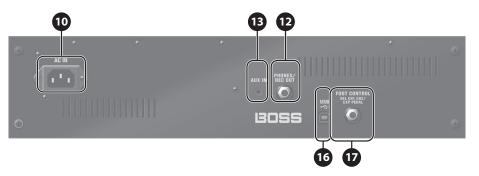
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9 [POWER] switch

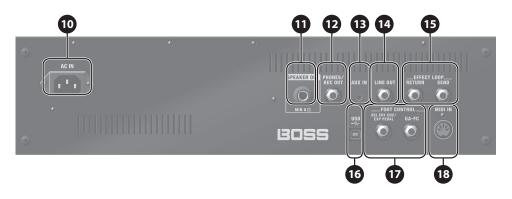
Turns the power of the KATANA on/off.

Rear Panel

KATANA-50



KATANA-100, KATANA-100/212, KATANA-HEAD



10 AC IN jack

Connect the included power cord.

* Use only the power cord that was included with the unit.

SPEAKER OUT jack HEAD only

Connect a speaker box. Only use speaker cable to connect the speaker. Do not use any shielded cable designed for use with quitars.

- * You must use a speaker box that has an input impedance of 8Ω or higher.
- * If a plug is inserted in this jack, no sound will be output from the KATANA's own speaker.

12 PHONES/REC OUT jack

Connect headphones here. You can obtain powerful guitar sounds just as if you were playing through the speaker. To adjust the volume, use the [VOLUME] knob along with the [MASTER] knob.

* If a plug is inserted in this jack, no sound will be output from the KATANA's own speaker. This is convenient if you don't want loud sound to be produced from the speaker, such as when you're practicing at night.

13 AUX IN jack

Here you can connect a CD player, audio player, electronic musical instrument, or similar audio source, and listen to it while you play your guitar.

LINE OUT jack 100/HEAD only

Connect this to your PA system or recorder. You can obtain powerful guitar amp sound just as if you were playing through the speaker.

Recorder, etc.



You can use this in conjunction with an external PA system, or to record your performance via direct line while monitoring the sound from the KATANA's speaker.

Adjust the output level using the [VOLUME] knob.

Since the [MASTER] knob does not affect the output, you can turn down the [MASTER] knob so that sound is output to a connected device without any sound being produced from the amp itself.

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

15 EFX LOOP SEND/RETURN jacks

100/HEAD only

Connect an external effect device (monaural).

Connect the SEND jack to the input of your external effect device, and connect the output of your external effect device to the RETURN jack.

16 USB ← port

You can use a commercially available USB 2.0 cable to record the sound of the KATANA into your computer. You can also use dedicated software to edit the settings of the internal effects (p. 8).



You must install the USB driver when connecting the unit to your computer.

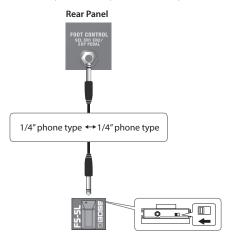
Download the USB driver from the Roland website. For details, refer to Readme.htm which is included in the download.

www.boss.info/support/

17 FOOT CONTROL

SEL CH1 CH2/EXP PEDAL jack

If you connect a footswitch (sold separately: FS-5L), you can use your foot to switch between CH. 1 and CH. 2. If you connect an expression pedal (sold separately: Roland EV-5, BOSS FV-500L, BOSS FV-500H), you can use your foot to vary the volume.



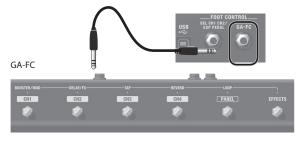
GA-FC jack 100/HEAD only

You can connect the separately sold Roland GA-FC to switch channels and turn effects on/off.

Connecting the GA-FC

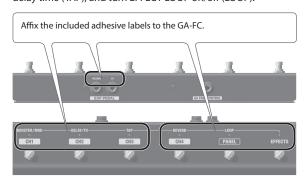
Connect a stereo cable to the GA-FC jack.

- * Always use a stereo cable.
- * Use cables that do not contain resistors.



Using the GA-FC

You can switch TONE SELECT (CH1-CH4, PANEL). You can also switch EFFECTS (BOOSTER/MOD, DELAY/FX, REVERB) on/off, set the delay time (TAP), and turn EFFECT LOOP on/off (LOOP).



Using the expression pedals

If you connect an expression pedal (sold separately: Roland EV-5, BOSS FV-500L, BOSS FV-500H), you can use the pedal to vary the volume or control an effect such as WAH.



Expression Pedal

Jack	Explanation
VOLUME	Adjust the volume.
FX	* You can control an effect such as WAH.

Setting MINIMUM VOLUME of an expression pedal

With the [MINIMUM VOLUME] knob of an expression pedal, you can set the value for when the pedal is lifted up all the way (lowest value).



Use only the specified expression pedal. By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.

MIDI IN jack HEAD only

You can control the KATANA-HEAD from a multi-effect unit or a MIDI foot controller.

How the MIDI receive channel is specified

Receive channel	Operation
CH 1	Hold down the [CH 1] button while turning the power on.
CH 2	Hold down the [CH 2] button while turning the power on.
CH 3	Hold down the [CH 3] button while turning the power on.
CH 4	Hold down the [CH 4] button while turning the power on.

* Receive channel is set to CH1 when shipped from the factory.

RECOGNIZED RECEIVE DATA

RX CH			1-4	
OMNI			OFF (fixed)	
PC			1 (00H): CH1	
			2 (01H) : CH2	
			3 (02H) : CH3	
			4 (03H) : CH4	
			5 (04H) : PANEL	
	#16	FX1 SW		
СС	#17	FX2 SW	0 - 63 : OFF,	
	#18	FX3 SW	64 - 127 : ON	
	#19	EFFECT LOOP SW		

When you operate the knobs in the EFFECTS section, the settings of the knobs become effective and the above on/off setting will be discarded.

Nederlands

Turning the Power On/Off

- * Once everything is properly connected (p. 4–p. 6), be sure to follow the procedure below to turn on their power. If you turn on equipment in the wrong order, you risk causing malfunction or equipment failure.
- Make sure that the KATANA's [MASTER] knob and the volume of the devices connected to the KATANA are set to 0.
 - * Before connecting your instrument to the KATANA's INPUT jack, set the [MASTER] knob to the minimum setting (far left).

2. Turn on the KATANA.

* 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.



Turn on the power of the devices connected to the LINE OUT jack and PHONES/REC OUT jack.

4. Adjust the volume levels for the devices.

Before switching off the power, lower the volume on each of the devices in your system and then TURN OFF the devices in the reverse order to which they were switched on.

* If you need to turn off the power completely, first turn off the unit, then unplug the power cord from the power outlet. Refer to "To completely turn off power to the unit, pull out the plug from the outlet" (p. 2).

Tilting the Unit

50/100 only

When using the KATANA-50, KATANA-100, or KATANA-100/212 at a low position such as on the floor, extending the stand will make the sound from the speakers easier to hear.







KATANA-50, KATANA-100

KATANA-100/212

- * The KATANA-50 and KATANA-100 have one folding leg attached to the bottom, and the KATANA-100/212 has two folding legs (at left and right).
- * Be sure to fold the stand when transporting the unit.

* When you operate the stand, please be careful not to get your fingers pinched between the movable part and the panel. In places where small children are present, make sure that an adult provides supervision and guidance.

Restoring the Factory Settings

Here's how the settings stored in the KATANA can be returned to their factory-set condition (factory reset).

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

All settings of the unit will return to their factory-set state.

Using the Effects

The KATANA amp lets you switch between 15 types of effect by using the buttons and knobs. You can use three types of effect simultaneously.



Effects assigned to each knob when the unit is shipped

Knob	Color of the button	BOOSTER	MOD
BOOSTER/MOD	Green	BLUES DRIVE	CHORUS
	Red	OVERDRIVE	FLANGER
OFF T	Orange	DISTORTION	PHASER
Knob	Color of the button	DELAY	FX
DELAY/FX	Green	DIGITAL DELAY	TREMOLO
AP OFF	Red	ANALOG DELAY	T.WAH
	Orange	TAPE ECHO	OCTAVE
Knob	Color of the button	REVERB	
REVERB	Green PLATE REVERB		
OFF	Red	SPRING REVERB	
	Orange	HALL REVERB	

1. Press the [BOOSTER/MOD], [DELAY/FX], or [REVERB] button to select the effect that you want to use.

Each time you press the button, its color changes.



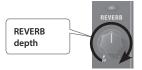
2. Turn the knob to adjust the depth of the effect.



* Either BOOSTER or MOD is selected depending on the position of the knob.



* Either DELAY or FX is selected depending on the position of the knob.



About the Factory-Set Effects

Effect	Explanation				
BOOSTER					
BLUES DRIVE	A crunch sound like the BOSS BD-2, creating distortion that faithfully reproduces the nuances of your picking.				
OVERDRIVE	An overdrive sound like the BOSS OD-1, producing swee and mild distortion.				
DISTORTION	A standard and highly usable distortion sound.				
MOD					
CHORUS	An effect that adds a slightly modulated sound to the direct signal, creating beautiful spaciousness and depth.				
FLANGER	Produces a flanging effect which applies modulation that is reminiscent of a jet airplane.				
PHASER	Produces a phasing effect which applies a sense of rotation to the sound by adding a slightly phase-shifted sound to the direct signal.				
DELAY					
DIGITAL DELAY	A clear digital delay sound.				
ANALOG DELAY	A mild analog delay sound.				
TAPE ECHO	A sound with the distinctive modulation of a tape echo unit.				
FX					
TREMOLO	An effect that cyclically modulates the volume.				
T.WAH	A wah effect that modulates a filter according to the volume of the guitar, producing a wah effect.				
OCTAVE	Adds a sound one octave lower than the input, generating a sense of low-frequency solidity.				
REVERB					
PLATE REVERB	Simulates a plate reverb (a reverb unit that uses the vibration of a metal plate), providing a metallic resonance with an extended high-frequency range				
SPRING REVERB	Simulates the spring reverb unit built into some guitar amps.				
HALL REVERB	Simulates the reverberation of a concert hall.				

Making use of the KATANA's dedicated software

You can connect the amp via USB to your computer, and use it with dedicated software. Using the dedicated software allows you to do the following:

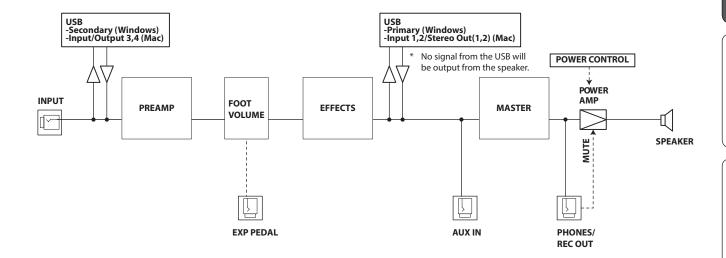


- Easily download dedicated effects from Boss Tone Central (http://bosstonecentral.com) download site into the amp.
- Edit the effect settings.
- Back up effects and other internal settings, or restore settings from a backup.

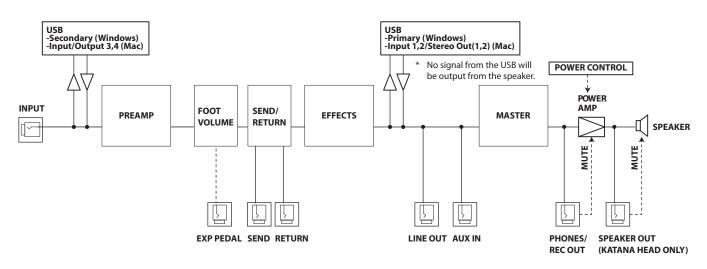
You can easily download the dedicated software from our BOSS TONE CENTRAL (http://bosstonecentral.com/) website. For details on how to use the software, refer to the Readme. htm file that comes with the download.

Block Diagram

KATANA-50



KATANA-100, KATANA-100/212, KATANA-HEAD



Main Specifications

	KATANA-50	KATANA-100	KATANA-100/212	KATANA-HEAD		
Rated Power Output		100 W				
Nominal Input Level	INPUT: -10 dBu (1MΩ)					
Nominal input Level	_ AOX IN: - 10 dBu	EFX LOOP RETURN: -10 dBu		EFX LOOP RETURN A/B: -10 dBu		
Speaker	30 cm (12 inches) x 1	30 cm (12 inches) x 1	30 cm (12 inches) x 2	12 cm (5 inches) x 1		
		[POWER] switch				
	[POWER] switch	[MASTER] knob				
	[MASTER] knob	[PRESENCE] knob				
	[POWER CONTROL] switch: STANDBY,	[POWER CONTROL] switch: STANDBY, 0.5 W, 50 W, 100 W				
	0.5 W, 25 W, 50 W	<amplifier></amplifier>				
	<amplifier></amplifier>	[AMP TYPE] knob: ACOUSTIC, CLEAN, CRUNCH, LEAD, BROWN				
	[AMP TYPE] switch: ACOUSTIC, CLEAN, CRUNCH, LEAD, BROWN	([GAIN] knob				
	[GAIN] knob	[VOLUME] knob				
	[VOLUME] knob	<equalizer></equalizer>				
	<equalizer></equalizer>	[BASS] knob				
	[BASS] knob	[MIDDLE] knob				
	[MIDDLE] knob	[TREBLE] knob				
Ctl.	[TREBLE] knob	<multi effect=""></multi>				
Controls	<multi effect=""></multi>	[BOOSTER/MOD] button				
	[BOOSTER/MOD] button	[DELAY/FX] button				
	[DELAY/FX] button	[REVERB] button				
	[REVERB] button	[TAP] button				
	[TAP] button	[BOOSTER/MOD] knob				
	[BOOSTER/MOD] knob	[DELAY/FX] knob				
	[DELAY/FX] knob	[REVERB] knob				
	[REVERB] knob	<tone setting=""></tone>				
	<tone setting=""></tone>	[CH1] button				
	[CH1] button	[CH2] button				
	[CH2] button	[CH3] button				
	[PANEL] button	[CH4] button				
	[[7/IVLE] Button	[PANEL] button				
		ACOUSTIC, CLEAN, CRUNCH, LEAD, BR	ROWN			
	BOOSTER/MOD	BOOSTER/MOD				
	DELAY/FX	DELAY/FX				
	REVERB	REVERB				
Indicators	TAP	TAP				
marcators	CH1	CH1				
	CH2	CH2				
	PANEL	CH3				
	.,	CH4				
		PANEL		INIDIT's de 4/4 to de ale control		
				INPUT jack: 1/4-inch phone type AUX IN jack: Stereo miniature phone		
				type		
		INPUT jack: 1/4-inch phone type		REC OUT/PHONES jack: Stereo 1/4-		
	INPUT jack: 1/4-inch phone type	AUX IN jack: Stereo miniature phone t	inch phone type			
	AUX IN jack: Stereo miniature phone	REC OUT/PHONES jack: Stereo 1/4-inc	SEND jack: 1/4-inch phone type			
	type	SEND jack: 1/4-inch phone type	RETURN jack: 1/4-inch phone type			
Cannactor-	REC OUT/PHONES jack: Stereo 1/4-	RETURN jack: 1/4-inch phone type	LINE OUT jack: 1/4-inch phone type			
Connectors	inch phone type	LINE OUT jack: 1/4-inch phone type	SPEAKER OUT jack: 1/4-inch phone			
	EXP PEDAL/CTL CH1/CH2 jack: 1/4-inch TRS phone type	EXP PEDAL/CTL CH1/CH2 jack: 1/4-inc	type			
	USB port: USB B type	GA-FC jack: 1/4-inch TRS phone type	EXP PEDAL/CTL CH1/CH2 jack: 1/4-			
	AC IN jack	USB port: USB B type		inch TRS phone type		
	/ te in viden	AC IN jack		GA-FC jack: 1/4-inch TRS phone type		
				MIDI IN connector		
				USB port: USB B type		
Power Consumption	47 W	77 W		AC IN jack		
ower Consumption	470 (W) x 238 (D) x 398 (H) mm	530 (W) x 248 (D) x 484 (H) mm	670 (W) x 248 (D) x 484 (H) mm	T		
Dimensions	18-9/16 (W) x 9-3/8 (D) x 15-11/16	20-7/8 (W) x 9-13/16 (D) x 17-1/2 (H)	26-7/16 (W) x 9-13/16 (D) x 19-1/16	470 (W) x 228 (D) x 215 (H) mm		
	(H) inches	inches	(H) inches	18-9/16 (W) x 9 (D) x 8-1/2 (H) inches		
\\/a:b.4	11.6 kg	14.8 kg	19.8 kg	8.8 kg		
Weight	25 lbs 10 oz	32 lbs 11 oz	43 lbs 11 oz	19 lbs 7 oz		
	Owner's manual	Owner's manual				
Accessories Power cord						
		GA-FC sticker				
Options	Footswitch: BOSS FS-5L	Footswitch: BOSS FS-5L, BOSS FS-6, BOSS FS-7				
sold separately)	Expression pedal: Roland EV-5, BOSS FV-500L, BOSS FV-500H	Expression pedal: Roland EV-5, BOSS FV-500L, BOSS FV-500H GA FOOT CONTROLLER (GA-FC)				
solu separately)						

^{* 0} dBu = 0.775 Vrms

^{*} This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.

-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	이 기기는 가정용(B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며,
(가정용 방송통신기자재)	모든지역에서 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 the USA

DECLARATION OF CONFORMITY Compliance Information Statement

Model Name: KATANA-50, KATANA-100, KATANA-100/212, KATANA-HEAD

Type of Equipment : GUITAR AMPLIFIER Responsible Party : Roland Corporation U.S.

Address: 5100 S. Eastern Avenue, Los Angeles, CA 90040-2938

Telephone: (323) 890-3700

For EU Countries



- 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.
- 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.
- 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.
- Questo simbolo indica che nei paesi della Comunità europea questo prodotto deve essere smaltito separatamente dai normali riffuti 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.
- 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.
- 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.
- 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.
- 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.
- 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.

- 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.
- 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.
- Ez a szimbólum azt jelenti, hogy az Európai Unióban ezt a terméket a háztartási hulladéktől elkülönítve, az adott régióban érvényes szabályozás szerint kell gyűjteni. Az ezzel a szimbólummal ellátott termékeket nem szabad a háztartási hulladék közé dobni.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Το σύμβολο αυτό υποδηλώνει ότι στις χώφες της Ε.Ε. το συγκεκφιμένο πφοϊόν πρέπει να συλλέγεται χωφιστά από τα υπόλοιπα οικιακά αποφρίμματα, σύμφωνα με όσα προβλέπονται σε κάθε περιοχή. Τα προϊόντα που φέφουν το συγκεκφιμένο σύμβολο δεν πρέπει να αποφρίττονται μαζί με τα οικιακά αποφρίμματα.

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					
部件名 <i>体</i>	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)	×	0	0	0	0	0
电子部件 (印刷电路板等)	×	0	×	0	0	0
附件(电源线、交流适配器等)	×	0	0	0	0	0

- 〇: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。

Information

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

AFRICA

REUNION

MARCEL FO-YAM Sarl

25 Rue Jules Hermann, Chaudron - BP79 97 491 Ste Clotilde Cedex REUNION ISLAND TEL: (0262) 218-429

SOUTH AFRICA

Paul Bothner(PTY)Ltd.

Royal Cape Park, Unit 24 Londonderry Road, Ottery 7800 Cape Town, SOUTH AFRICA TEL: (021) 799 4900

ASIA

CHINA

Roland Shanghai Electronics Co.,Ltd.

5F. No.1500 Pingliang Road, Yangpu Shanghai 200090, CHINA TEL: (021) 5580-0800 Toll Free: 4007-888-010

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

3F, Soluxe Fortune Building 63 West Dawang Road, Chaoyang Beijing, CHINA TEL: (010) 5960-2565/0777 Toll Free: 4007-888-010

HONG KONG

Tom Lee Music

11/F Silvercord Tower 1 30 Canton Rd Tsimshatsui, Kowloon, HONG KONG TEL: 852-2737-7688

Parsons Music Ltd.

8th Floor, Railway Plaza, 39 Chatham Road South, T.S.T, Kowloon, HONG KONG TEL: 852-2333-1863

INDIA

Rivera Digitec (India) Pvt. Ltd.

411. Nirman Kendra Mahalaxmi Flats Compound Off. Dr. Edwin Moses Road, Mumbai-400011, INDIA

TEL: (022) 2493 9051

INDONESIA

PT. Citra Intirama

Ruko Garden Shopping Arcade Unit 8 CR, Podomoro City Jl.Letjend. S.Parman Kav.28 Jakarta Barat 11470, INDONESIA TEL: (021) 5698-5519/5520

KAZAKHSTAN

Alatau Dybystary 141 Ahylai-Khan ave 1st floor

050000 Almaty, KAZAKHSTAN TEL: (727) 2725477 FAX: (727) 2720730

KOREA

Cosmos Corporation

27, Banpo-daero, Seocho-gu, Seoul, KOREA TEL: (02) 3486-8855

MALAYSIA

Roland Asia Pacific Sdn. Bhd. 45-1, Block C2, Jalan PJU 1/39, Dataran Prima, 47301 Petaling Jaya, Selangor, MALAYSIA TEL: (03) 7805-3263

MYANMAR

THAW AND ZIN FAMILY CO., ITD.

4061-4062, Taw Win Center Level-3, Yangon, MYANMAR TEL: 09 31010744 / 09 5061300

PHILIPPINES

G.A. Yupangco & Co. Inc. 339 Gil J. Puyat Avenue Makati, Metro Manila 1200,

PHILIPPINES TEL: (02) 899 9801

SINGAPORE

Swee Lee Service Centre 12 Jalan Kilang Barat #01-00

Singapore 159354 TEL: (+65) 6376 6141

ΤΔΙWΔΝ ROLAND TAIWAN ENTERPRISE

CO., LTD.

9F-5, No. 112 Chung Shan North Road Sec. 2 Taipei 104, TAIWAN TEL: (02) 2561 3339

THAILAND

Theera Music Co. , Ltd. 100-108 Soi Verng Nakornkasem, New Road, Sumpantawong, Bangkok 10100, THAILAND TEL: (02) 224-8821

VIET NAM

VIET THUONG CORPORATION 386 CACH MANG THANG TAM ST. DIST.3, HO CHI MINH CITY, VIFT NAM

TEL: (08) 9316540

CARIBBEAN

BARBADOS

A&B Music Supplies LTD 12 Webster Industrial Park Wildey, St.Michael, BARBADOS TEL: (246) 430-1100

CURACAO

Zeelandia Music Center Inc.

Orionweg 30 Curacao, Netherland Antilles TEL: (305) 5926866

DOMINICAN REPUBLIC Instrumentos Fernando Giraldez

Calle Roberto Pastoriza #325 Sanchez Naco Santo Domingo, DOMINICAN REPUBLIC TEL: (809) 683 0305

MARTINIOUE

Musique & Son Z.I.Les Mangle

97232 Le Lamentin. MARTINIQUE F.W.I. TEL: 596 596 426860

TRINIDAD

AMR Ltd Ground Floor Maritime Plaza Barataria TRINIDAD W I TEL: (868) 638 6385

CENTRAL/SOUTH AMERICA

ARGENTINA

Instrumentos Musicales S.A. Av.Santa Fe 2055 (1123) Buenos Aires, ARGENTINA TEL: (011) 4508-2700

BRAZIL

Roland Brasil Ltda.

Rua San Jose, 211 Parque Industrial San Jose Cotia - Sao Paulo - SP, BRAZIL TEL: (011) 4615 5666

CHILE

Audiomusica SpA

Av. Chile España 393 Ñuñoa Santiago, CHILE TEL: (+56) 2 2384 20 00

COLOMBIA CENTRO MUSICAL S.A.S.

Parque Industrial del Norte Bodega 130 GIRARDOTA - ANTIOQUIA, COLOMBIA TEL: (454) 57 77 EXT 115

COSTA RICA

JUAN Bansbach Instrumentos Musicales

Ave.1. Calle 11, Apartado 10237, San Jose, COSTA RICA TFI · 258-0211

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Mas Musika

Rumichaca 822 y Zaruma Guayaguil - ECUADOR TEL: (593-4) 2302364

FI SALVADOR

OMNI MUSIC

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GUATEMALA

Casa Instrumental Calzada Roosevelt 34-01,zona 11 Ciudad de Guatemala. GUATEMAI A TEL: (502) 599-2888

HONDURAS

Almacen Pajaro Azul S.A. de C.V. BO.Paz Barahona

3 Ave 11 Calle S O San Pedro Sula, HONDURAS TEL: (504) 553-2029

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Bansbach Instrumentos Musicales Nicaragua

Altamira D'Este Calle Principal de la Farmacia 5ta. Avenida 1 Cuadra al Lago.#503 Managua, NICARAGUA TEL: (505) 277-2557

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SUPRO MUNDIAL, S.A. Boulevard Andrews, Albrook Panama City, REP. DE PANAMA TEL: 315-0101

PARAGUAY

WORLD MUSIC Jebai Center 2018, Centro CIUDAD DE ESTE PARAGUAY

PERU

Audiomusica Peru SAC Av.Angamos Oeste 737

Piso 3 Miraflors Lima, PERU TEL: (+57) 1 2557005

URUGUAY

Todo Musica S.A. Francisco Acuna de Figueroa C.P.: 11.800 Montevideo, URUGUAY

TEL: (02) 924-2335 VENEZUELA

Instrumentos Musicales Allegro, C.A.

Av.las industrias edf.Guitar import #7 zona Industrial de Turumo Caracas VENEZUELA TEL: (212) 244-1122

EUROPE

BELGIUM/FRANCE/ HOLLAND/ **LUXEMBOURG**

Roland Central Europe N.V. Houtstraat 3, B-2260, Oevel (Westerlo) BELGIUM TEL: (014) 575811

ΒΟςΝΙΔ ΔΝΟ **HERZEGOVINA**

Mix-AP Music 78000 Banja Luka, Veselina Maslese 3, BOSNIA AND HERZEGOVINA TEL: 65 403 168

CROATIA ART-CENTAR

Degenova 3. HR - 10000 Zagreb, CROATIA TEL: (1) 466 8493

EUROMUSIC AGENCY

K. Racina 1/15 HR - 40000 CAKOVEC, CROATIA Tel: 40-370-841

CZECH REPUBLIC CZECH REPUBLIC DISTRIBUTOR s.r.o

Pod Bání 8 180 00 Praha 8, CZECH REP. TEL: 266 312 557

DENMARK/ESTONIA/ LATVIA/LITHUANIA

Roland Scandinavia A/S Skagerrakvej 7, DK-2150 Nordhavn, DENMARK TEL: 39166200

FINI AND

Roland Scandinavia As, Filial Finland

Vanha Nurmijarventie 62 01670 Vantaa, FINLAND TEL: (0) 9 68 24 020

GERMANY/AUSTRIA

ROLAND Germany GmbH. Adam-Opel-Strasse 4, 64569 Nauheim, GERMANY TEL: 6152 95546-00

GREECE/CYPRUS

STOLLAS S.A. Music Sound Light 155, New National Road Patras 26442, GREECE

TEL: 2610 435400 HUNGARY

Roland East Europe Ltd. 2045. Törökbálint, FSD Park 3. ép., HUNGARY TEL: (23) 511 011

IRELAND

Roland Ireland E2 Calmount Park, Calmount Avenue, Dublin 12, Republic of IRELAND TEL: (01) 4294444

ITALY

Roland Italy S. p. A. Viale delle Industrie 8, 20020 Arese, Milano, ITALY

TEL: (02) 937781 **MACEDONIA**

MK MJUZIK Bratstvo Edinstvo 9 2208 Lozovo, MACEDONIA TEL: 70 264 458

MONTENEGRO

MAX-AP

P. Fah 92 Przno, Kamenovo bb 86000 Budva, MONTENEGRO TEL: 33 452-820

NORWAY

Roland Scandinavia Avd. Kontor Norge Lilleakerveien 2 Postboks 95

Lilleaker N-0216 Oslo, NORWAY TEL: 2273 0074

POI AND

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

PORTUGAL

Roland Iberia S.L. Branch Office Porto

Rua 5 de Outubro nº 5587 4465-082 Sao Mamede de Infesta, Porto, PORTUGAL TEL: (+351) 22 01 39 526

ROMANIA

Pro Music Concept SRL 440221 Satu Mare B-dul Independentei nr. 14/a., ROMANIA

RUSSIA

Roland Music LLC Dorozhnaya ul.3,korp.6 117 545 Moscow, RUSSIA TEL: (495) 981-4967

TEL: (0361) 807-333

SERBIA

Music AP Sutjeska br. 5 XS - 24413 PALIC, SFRRIA TEL: (0) 24 539 395

SLOVAKIA

DAN Distribution, s.r.o. Povazská 18. SK - 940 01 Nové Zámky.

SLOVAKIA TEL: (035) 6424 330

SPAIN

Roland Iberia S.L.

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SWEDEN

Roland Scandinavia A/S SWEDISH SALES OFFICE Mårbackagatan 31, 4 tr. SE-123 43 Farsta, SWEDEN

TEL: (0) 8 683 04 30 SWITZERI AND

Roland (Switzerland) AG Landstrasse 5, Postfach CH-4452 Itingen, SWITZERLAND

TEL: (061) 975-9987 TURKEY

ZUHAL DIS TICARET A.S. Galipdede Cad. No: 33 Tunel, Beyoglu, Istanbul, Turkey

TEL: (0212) 249 85 10 UKRAINE

EURHYTHMICS Ltd.

P.O.Box: 37-a. Nedecey Str. 30 UA - 89600 Mukachevo. LIKRAINE TEL: (03131) 314-40

UNITED KINGDOM

Roland (U.K.) Ltd. Atlantic Close, SWANSEA SA7 9EL UNITED KINGDOM

MIDDLE EAST

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Moon Stores No.1231&1249 Rumaytha Building Road 3931. Manama 339, BAHRAIN TEL: 17 813 942

EGYPT

Al Fanny Trading

9, EBN Hagar Al Askalany Street, ARD E1 Golf, Heliopolis, Cairo 11341, EGYP TEL: (022)-417-1828

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MOCO INC. ladeh Makhsous Karai (K-9)

Nakhe Zarin Ave. Jalal Street, Reza Alley No.4 Tehran 1389716791, IRAN TEL: (021)-44545370-5

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Halilit P. Greenspoon & Sons Ltd. 8 Retzif Ha'alia Hashnia St. Tel-Aviv-Yafo ISRAFI

TEL: (03) 6823666

JORDAN MUSIC HOUSE CO. LTD. FREDDY FOR MUSIC

P.O. Box 922846 Amman 11192, JORDAN TEL: (06) 5692696

KUWAIT EASA HUSAIN AL-YOUSIFI & SONS CO. Al-Yousifi Service Center

P.O.Box 126 (Safat) 13002, KUWAIT TEL: 00 965 802929

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Chahine S.A.L. George Zeidan St., Chahine Bldg., Achrafieh, P.O.Box: 16-5857 Beirut, LEBANON

TEL: (01) 20-1441 OMAN TALENTZ ENTERPRISES LLC

MALATAN BUILDING NO. 4 SHOP NO. 3 AL NOOR STREET RUWI SULTANATE OF OMAN. TEL: 00968 24783443 FAX: 00968 24784554

OATAR

AL-EMADI TRADING & CONTRACTING CO.

P.O. Box 62, Doha, QATAR TEL: 4423-554

SAUDI ARABIA

Adawliah Universal Electronics APL

Behind Pizza Inn Prince Turkey Street Adawliah Building, PO BOX 2154, Al Khobar 31952, SAUDI ARABIA TEL: (03) 8643601

SYRIA

Technical Light & Sound Center PO Box 13520 Bldg No.49 Khaled Abn Alwalid St. Damascus, SYRIA TEL: (011) 223-5384

U.A.E.

Adawliah Universal Electronics APL Omar bin alkhattab street, fish round about, nayef area, deira, Dubai, U.A.E. TEL: (04) 2340442

NORTH AMERICA

CANADA

Roland Canada Ltd. (Head Office)

5480 Parkwood Way Richmond B. C., V6V 2M4, CANADA TEL: (604) 270 6626

Roland Canada Ltd. (Toronto Office) 170 Admiral Boulevard Mississauga On L5T 2N6,

CANADA TEL: (905) 362 9707

MEXICO Casa Veerkamp, s.a. de c.v. Av. Toluca No. 323, Col. Olivar

de los Padres 01780 Mexico D.F.,

TEL: (55) 5668-6699

Falv Music Sucursal Capu Blvd. Norte N.3213 Col. Nueva Aurora Cp.72070 Puebla, Puebla, MEXICO TEL: 01 (222) 2315567 o 97

Gama Music S.A. de C.V. Madero Pte. 810 Colonia Centro C.P. 64000 Monterrey, Nuevo León, MEXICO TEL: 01 (81) 8374-1640 o 8372-4097

FAX: 01 (222) 2266241

Holocausto Music Bolivar No.62 v 76, Col.Centro Del.Cuahutemoc Mexico D.F. CP 06080, MEXICO TEL: 52-55 5709 9046

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Mexico D.F. CP 06080, MEXICO

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AUSTRALIA/NEW ZEALAND

Roland Corporation Australia Pty.,Ltd. 38 Campbell Avenue, Dee Why West, NSW 2099, AUSTRALIA

For Australia TEL: (02) 9982 8266 For New Zealand TEL: (09) 3098 715