Roland®

INTERFACE BOX FOR R-BUS/ADAT

DIF-AT24

Owner's Manual

Roland DIF-AT24 INTERFACE BOX FOR R-BUS/ADAT

ADAT   POWER

Congratulations on your purchase of the Roland DIF-AT24.

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" (p. 2, 3) and "IMPORTANT NOTES" (p. 4). 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 provided by your new unit, Owner's Manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

Main Features

The DIF-AT24 lets you transfer up to 8 channels of 24-bit digital audio data between an R-BUS device and a device equipped with an ADAT interface.

* *ADAT is a registered trademark of Alesis Corporation.*
* *All product names mentioned in this document are trademarks or registered trademarks of their respective owners.*

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

- Before using this unit, make sure to read the instructions below, and the Owner's Manual.

....

- 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 use or store the unit in places that are:
  - 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
  - Humid; or are
  - Exposed to rain; or are
  - Dusty; or are
  - Subject to high levels of vibration.

....

- 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.

....

⚠WARNING

- 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, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:
  - 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.

....

- In households with small children, 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!)

....

3

IMPORTANT NOTES

In addition to the items listed under "USING THE UNIT SAFELY" on page 2, please read and observe the following:

Power Supply

• 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.

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.

• 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.

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.

• 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 switches and when using its jacks and connectors. 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.

• To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels (especially when it is late at night).

• 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.

Copyright

• When exchanging audio signals through a digital connection with an external instrument, this unit can perform recording without being subject to the restrictions of the Serial Copy Management System (SCMS). This is because the unit is intended solely for musical production, and is designed not to be subject to restrictions as long as it is used to record works (such as your own compositions) that do not infringe on the copyrights of others. (SCMS is a feature that prohibits second-generation and later copying through a digital connection. It is built into MD recorders and other consumer digital-audio equipment as a copyright-protection feature.)

• Do not use this unit for purposes that could infringe on a copyright held by a third party. We assume no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this unit.

When connecting to the VM-7100/7200

• The DIF-AT24 will not operate correctly if the VM-7100/7200 system version is earlier than 1.7.

Use the following procedure to check the system version, and be sure to update to system version 1.7 or later.

For details on updating, please contact the nearest Roland office or service center.

– To check the version –
1. **Connect the VM-7100/7200 to the VM-C7100/C7200.**
2. **Turn on the power to start up the system.**
3. **Hold down [On Display] and press numeric key [0].**
   The version display screen will appear, with an indication like the following:
   "Unit X Version: 1.XXX"
4. **Note the version number shown in "1.XXX"**

Contents

Specifications
DIF-AT24: Interface Box for R-BUS/ADAT

Sampling Frequency	44.1/48kHz
Audio Data Format	16/20/24 bit
Indicators	Power indicator ADAT indicator
Connectors	R-BUS connector ADAT optical connectors in, out MIDI connectors in, out
Power Supply	Supplied from connected R-BUS device
Dimensions	138 (W) x 197 (D) x 43 (H) mm 5-7/16 (W) x 7-13/16 (D) x 1-3/4 (H) inches
Weight	0.5 kg 1 lb 2 oz
Accessories	R-BUS cable (1 m) Owner's manual

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

Panel descriptions

Front Panel

1 ADAT indicator

This indicator will light green if an ADAT interface signal is being input to the ADAT digital IN connector.

2 POWER indicator

When the R-BUS device connected to the R-BUS connector is powered up, this indicator will light red to indicate that power is being supplied to the DIF-AT24.

* Power is supplied to the DIF-AT24 via the R-BUS connector.

Rear Panel
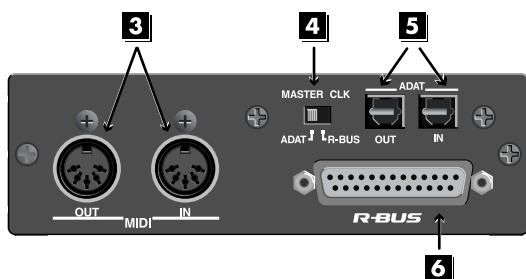
3 MIDI IN/OUT connectors

These are used mainly for MTC synchronization.

MEMO

The data that is transmitted from the MIDI OUT connector will depend on the settings of the R-BUS device connected to the R-BUS connector.

4 MASTER CLK (Master clock) switch

This switches the master clock (sampling clock) synchronization.

MASTER CLK switch	Master clock device
Set to [R-BUS]	When using the R-BUS device connected to the R-BUS connector as the master clock.
Set to [ADAT]	When using the digital device connected to the ADAT OUT/IN connector as the master clock

5 ADAT OUT/IN (ADAT digital out/in) connector

This is the ADAT digital interface.

It allows eight channels of digital audio data to be transferred between the DIF-AT24 and an ADAT-compatible digital device.

6 R-BUS connector

Provides for the input/output of eight channels of digital audio data, thus allowing the exchange of data between the DIF-AT24 and an R-BUS device to take place. Also transmits/receives synchronization signals.

* Power is supplied to the DIF-AT24 via the R-BUS connector.

NOTE

- *Connect only an R-BUS device to the R-BUS connector. You must never connect a device with a SCSI, RS-232C, or parallel interface. Even though the connectors on such devices may look similar, they are incompatible, and damage and/or malfunction could result if you attempt their connection. Also, you must use only a special R-BUS cable to make connections.*
- *You must turn off the power of the R-BUS device before connecting or disconnecting the R-BUS cable. If you connect or disconnect the cable while power is being supplied, the external R-BUS device will stop working correctly, and the DIF-AT24 or the external R-BUS device may also be damaged.*
- *The specifications for "R-BUS" are identical to those of RMDB2 and RMDB II. You can use it with any device that is marked "RMDB2" or "RMDB II."*
- *R-BUS (RMDB2) is not compatible with the older RMDB specification.*

Turning the power on/off

Turning the power on

Before you turn each device on, make sure that all devices are connected correctly.

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 Turn on the power of your R-BUS device.

When power is supplied to the DIF-AT24, its power indicator will light.

2 Turn on the power of your computer, ADAT device, etc.

3 Turn on the power of your audio device like audio mixers etc.

Turning the power off

1 Turn off the power of your audio device like audio mixers etc.

2 Turn off the power of your computer, ADAT device, etc.

3 Turn off the power of your R-BUS device.

Power will no longer be supplied, and the DIF-AT24's power indicator will go out.

Connections and settings

Connecting the VS-2400CD and a computer

Here's an example of synchronization with computer-based sequencer software or the VS-2400CD functioning as the master.

Make connections as shown in the diagram. This example uses the UA-1000 to perform input/output with the computer via USB 2.0.

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.*
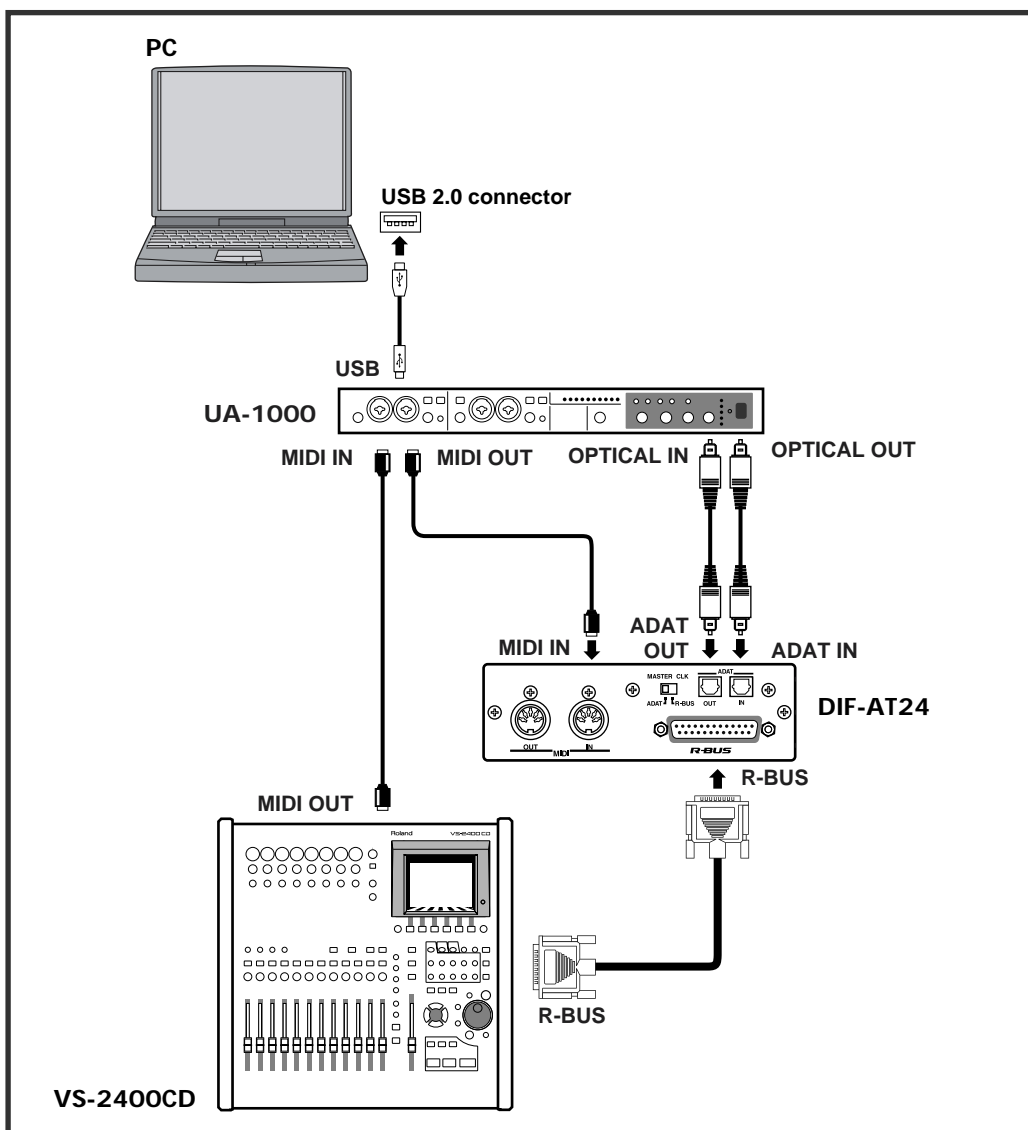
Settings

■ Sampling Frequency settings

Set the sampling frequency of your sequencer software, the VS-2400CD, and the UA-1000 to the same setting (44.1 kHz or 48 kHz).

■ Master Clock settings

Master clock device	VS-2400CD setting	DIF-AT24 MASTER CLK switch
VS-2400CD	PROJECT PARAMETER screen ❍ MASTER CLOCL ....INT	**R-BUS**
Sequencer software	PROJECT PARAMETER screen ❍ MASTER CLOCL ....R-BUS	**ADAT**

MEMO *You'll also need to set the Master Clock for your sequencer software. For details on this setting, refer to the owner's manual for your sequencer software.*

■ Synchronization settings

Set the VS-2400CD's parameters as follows.

❏ **MMC settings**

If using the sequencer software as the MMC master	If using the VS-2400CD as the MMC master
MIDI PARAMETER screen ❍ SysEx. Rx. Sw .... On ❍ MMC MODE .... SLAVE ❍ MMC SOURCE .... R-BUS	MIDI PARAMETER screen ❍ MIDI OUT/THRU .... Out ❍ SysEx. Tx. Sw .... On ❍ MMC MODE .... MASTER

❏ **MTC settings**

If using the sequencer software as the MMC master	If using the VS-2400CD as the MMC master
SYNC PARAMETER screen ❍ SYNC MODE .... EXT ❍ EXT SYNC SOURCE .... R-BUS ❍ FRAME RATE .... Same setting as the software.*	SYNC PARAMETER screen ❍ SYNC MODE .... INT ❍ FRAME RATE .... Select the MTC type.* ❍ MIDI OUT SYNC Gen .... MTC

* *Check the specifications of your sequencer software, and set your software and the VS-2400CD to the same frame rate.*

MEMO *In order to synchronize operation with your sequencer software, you'll also need to make settings in the sequencer software. For details on these settings, refer to the owner's manual for your sequencer software.*

**Connection
example 2**

Connecting the VS-2400CD and a computer

**Here's an example of synchronization with computer-based sequencer software or the
VS-2400CD functioning as the master.**

**Make connections as shown in the diagram. This example uses an ADAT interface and MIDI
interface connected to your computer.**

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.*
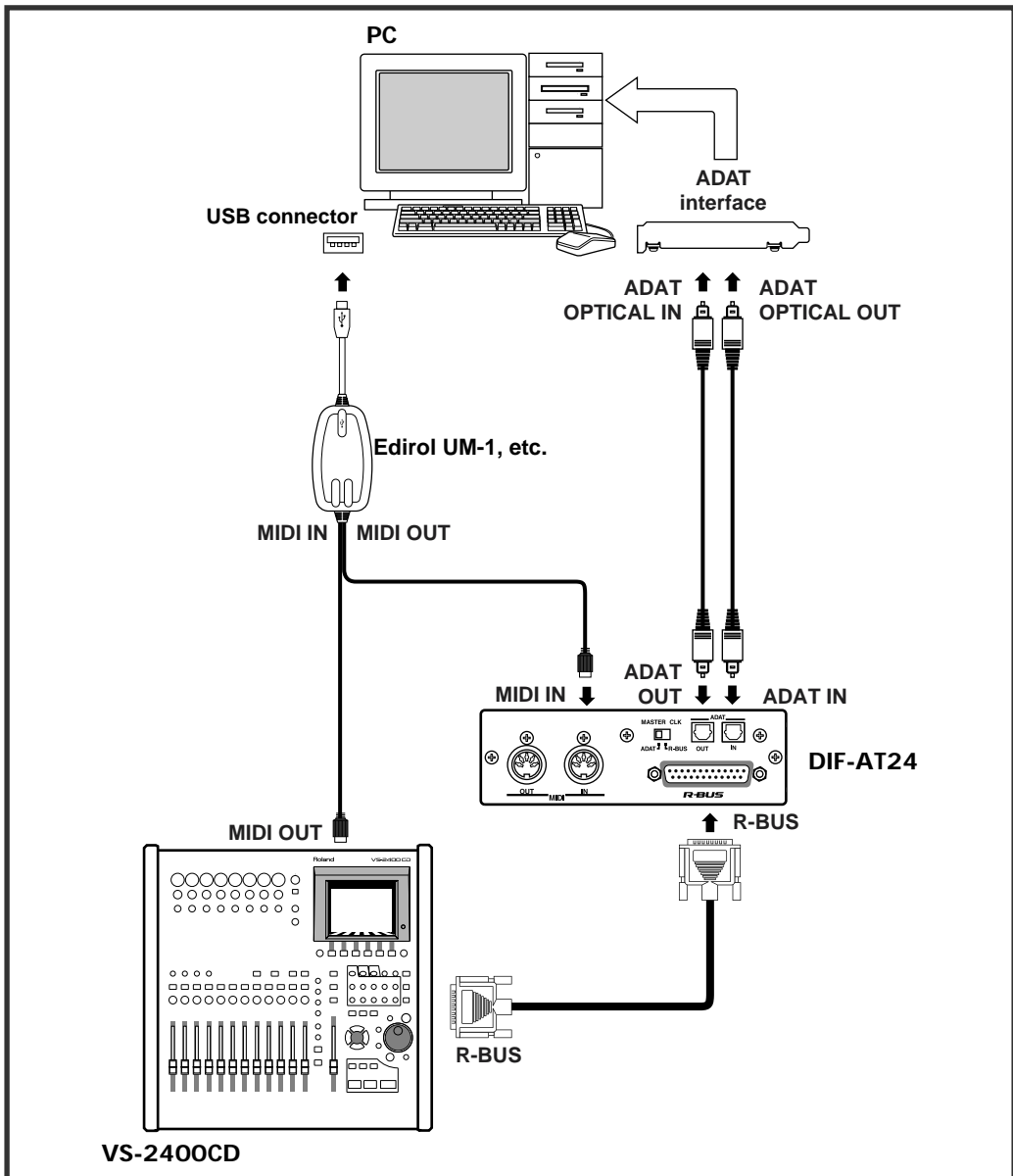
Settings

■ Sampling Frequency settings

Set the sampling frequency of your sequencer software and the VS-2400CD to the same setting (44.1 kHz or 48 kHz).

■ Master Clock settings

Master clock device	VS-2400CD setting	DIF-AT24 MASTER CLK switch
VS-2400CD	PROJECT PARAMETER screen ❍ MASTER CLOCL ....INT	**R-BUS**
Sequencer software	PROJECT PARAMETER screen ❍ MASTER CLOCL ....R-BUS	**ADAT**

MEMO *You'll also need to set the Master Clock for your sequencer software. For details on this setting, refer to the owner's manual for your sequencer software.*

■ Synchronization settings

Set the VS-2400CD's parameters as follows.

❏ **MMC settings**

If using the sequencer software as the MMC master	If using the VS-2400CD as the MMC master
MIDI PARAMETER screen ❍ SysEx. Rx. Sw .... On ❍ MMC MODE....................... SLAVE ❍ MMC SOURCE................... R-BUS	MIDI PARAMETER screen ❍ MIDI OUT/THRU .... Out ❍ SysEx. Tx. Sw .... On ❍ MMC MODE....................... MASTER

❏ **MTC settings**

If using the sequencer software as the MMC master	If using the VS-2400CD as the MMC master
SYNC PARAMETER screen ❍ SYNC MODE .... EXT ❍ EXT SYNC SOURCE.......... R-BUS ❍ FRAME RATE..................... Same setting as the software.*	YNC PARAMETER screen ❍ SYNC MODE .... INT ❍ FRAME RATE..................... Select the MTC type.* ❍ MIDI OUT SYNC Gen .... MTC

* *Check the specifications of your sequencer software, and set your software and the VS-2400CD to the same frame rate.*

MEMO *In order to synchronize operation with your sequencer software, you'll also need to make settings in the sequencer software. For details on these settings, refer to the owner's manual for your sequencer software.*

**Connection
example 3**

Connecting the VS-2400CD and an ADAT device

**This example allows digital audio signals to be transferred. Make connections as shown in
the diagram.**

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.*

Settings

■ Sampling Frequency settings
**Set the sampling frequency of the VS-2400CD and ADAT device to the same setting
(44.1 kHz or 48 kHz).**

■ Master Clock settings

Master clock device	VS-2400CD setting	DIF-AT24 MASTER CLK switch
VS-2400CD	PROJECT PARAMETER screen ❍ MASTER CLOCL................INT	**R-BUS**
ADAT device	PROJECT PARAMETER screen ❍ MASTER CLOCL................R-BUS	**ADAT**

MEMO *You'll also need to set the Master Clock for the ADAT device. For details on this setting, refer to the owner's
manual for the ADAT device.*

Connection example 4

Connecting the VS-2400CD with an ADAT device and BRC

The BRC is used to operate the VS-2400CD and ADAT device in synchronization. Make connections as shown in the diagram.

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.*
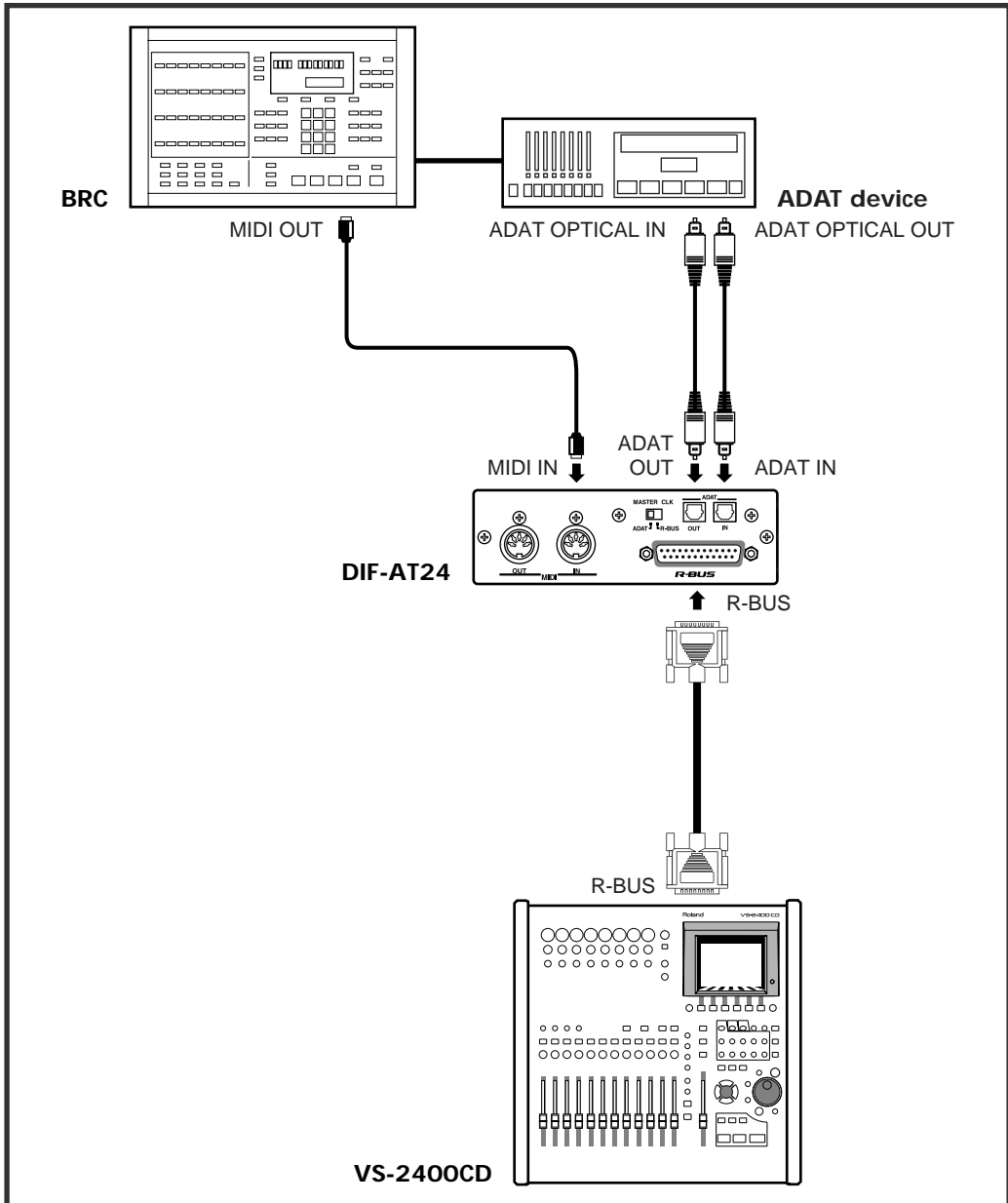
Settings

■ Sampling Frequency settings
Set the sampling frequency of the VS-2400CD and ADAT device to the same setting (48 kHz).

■ Master Clock settings

Master clock device	VS-2400CD setting	DIF-AT24 MASTER CLK switch
VS-2400CD	PROJECT PARAMETER screen ❍ MASTER CLOCL ....INT	**R-BUS**
ADAT device	PROJECT PARAMETER screen ❍ MASTER CLOCL ....R-BUS	**ADAT**

MEMO *You'll also need to set the Master Clock for the ADAT device. For details on this setting, refer to the owner's manual for the ADAT device.*

### ■ Synchronization settings
Set the VS-2400CD's parameters as follows.

MIDI PARAMETER screen
❍ SysEx. Rx. Sw. On
❍ MMC MODE.. SLAVE
❍ MMC SOURCE R-BUS

SYNC PARAMETER screen
❍ SYNC MODE. EXT
❍ EXT SYNC SOURCE R-BUS
❍ FRAME RATE.................... Same setting as the software.*

■ BRC settings

1 **Press [EDIT] ➜ [GEN SYNC] ➜ [GEN SYNC].**

The screen will indicate "Generate Sync."

2 **Use [▲][▼] to select "MIDI: MTC," and press [EDIT].**
[EDIT] will go dark.

3 **Press [GEN SYNC].**
[GEN SYNC] will light, and the BRC will output MTC.

Connection example 5 | **Using the DIF-AT24 as an additional MIDI OUT for the MV-8000**

Make connections as shown in the diagram.

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.*

MEMO *In order to make these connections, the MV8-OP1 (audio I/O expansion; sold separately) must be installed in the MV-8000.*
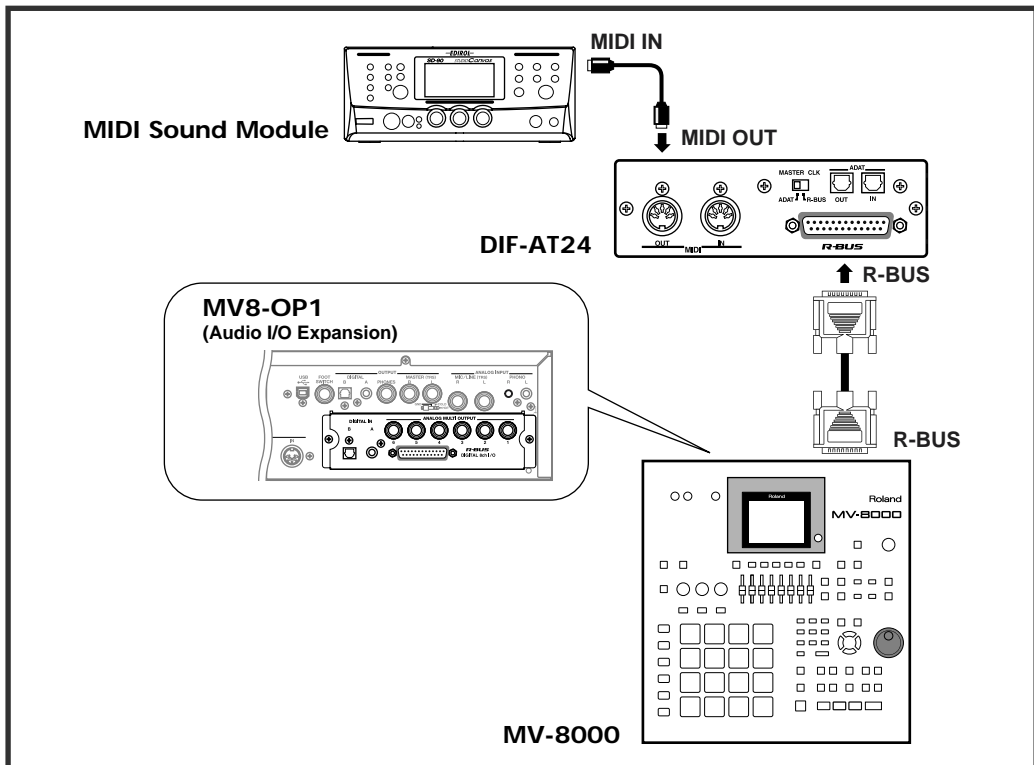
Settings

■ MV-8000 settings

1
Press the [SEQUENCE] button.

The SEQUENCE screen will appear.

2
Move the cursor to the track whose MIDI settings you want to make.

3
Press function button [F1 (Track Param)].

The TRACK PARAMETER screen will appear.

4
In the TRACK PARAMETER screen, move the cursor to "MIDI," and select "R-1"–"R-16" as the MIDI channel on which the track will be transmitted via R-BUS.

Information

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

AFRICA

EGYPT
Al Fanny Trading Office
9, EBN Hagar A1 Askalany Street,
ARD E1 Golf, Heliopolis,
Cairo 11341, EGYPT
TEL: 20-2-417-1828

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

SOUTH AFRICA
**That Other Music Shop
(PTY) Ltd.**
11 Melle St., Braamfontein,
Johannesbourg, SOUTH AFRICA

P.O.Box 32918, Braamfontein 2017
Johannesbourg, SOUTH AFRICA
TEL: (011) 403 4105

Paul Bothner (PTY) Ltd.
17 Werdmuller Centre,
Main Road, Claremont 7708
SOUTH AFRICA

P.O.BOX 23032, Claremont 7735,
SOUTH AFRICA
TEL: (021) 674 4030

ASIA

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 Anhuaxili
Chaoyang District, Beijing 100011
CHINA
TEL: (010) 6426-5050

**Roland Shanghai Electronics
Co.,Ltd.
(GUANGZHOU OFFICE)**
2/F., No.30 Si You Nan Er Jie Yi
Xiang, Wu Yang Xin Cheng,
Guangzhou 510600, CHINA
Tel: (020) 8736-0428

HONG KONG
**Tom Lee Music Co., Ltd.
Service Division**
22-32 Pun Shan Street, Tsuen
Wan, New Territories,
HONG KONG
TEL: 2415 0911

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

INDIA
Rivera Digitec (India) Pvt. Ltd.
409, Nirman Kendra Mahalaxmi
Flats Compound Off. Dr. Edwin
Moses Road, Mumbai-400011,
INDIA
TEL: (022) 2493 9051

INDONESIA
PT Citra IntiRama
J1. Cideng Timur No. 15J-150
Jakarta Pusat
INDONESIA
TEL: (021) 6324170

KOREA
Cosmos Corporation
1461-9, Seocho-Dong,
Seocho Ku, Seoul, KOREA
TEL: (02) 3486-8855

MALAYSIA
BENTLEY MUSIC SDN BHD
140 & 142, Jalan Bukit Bintang
55100 Kuala Lumpur, MALAYSIA
TEL: (03) 2144-3333

PHILIPPINES
G.A. Yupangco & Co. Inc.
339 Gil J. Puyat Avenue
Makati, Metro Manila 1200,
PHILIPPINES
TEL: (02) 899 9801

SINGAPORE
Swee Lee Company
150 Sims Drive,
SINGAPORE 387381
TEL: 6846-3676

**CRISTOFORI MUSIC PTE
LTD**
Blk 3014, Bedok Industrial Park E,
#02-2148, SINGAPORE 489980
TEL: 6243-9555

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

THAILAND
Theera Music Co. , Ltd.
330 Verng NakornKasem, Soi 2,
Bangkok 10100, THAILAND
TEL: (02) 2248821

VIETNAM
Saigon Music
Suite DP-8
40 Ba Huyen Thanh Quan Street
Hochiminh City, VIETNAM
Tel: (08) 930-1969

AUSTRALIA/ NEW ZEALAND

AUSTRALIA
**Roland Corporation
Australia Pty., Ltd.**
38 Campbell Avenue
Dee Why West. NSW 2099
AUSTRALIA
TEL: (02) 9982 8266

NEW ZEALAND
Roland Corporation Ltd.
32 Shaddock Street, Mount Eden,
Auckland, NEW ZEALAND
TEL: (09) 3098 715

CENTRAL/LATIN 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, 780 Sala B
Parque Industrial San Jose
Cotia - Sao Paulo - SP, BRAZIL
TEL: (011) 4615 5666

COSTA RICA
**JUAN Bansbach
Instrumentos Musicales**
Ave.1. Calle 11, Apartado 10237,
San Jose, COSTA RICA
TEL: 258-0211

CHILE
Comercial Fancy II S.A.
Rut.: 96.919.420-1
Nataniel Cox #739, 4th Floor
Santiago - Centro, CHILE
TEL: (02) 688-9540

EL SALVADOR
OMNI MUSIC
75 Avenida Norte y Final
Alameda Juan Pablo II ,
Edificio No.4010 San Salvador,
EL SALVADOR
TEL: 262-0788

MEXICO
Casa Veerkamp, s.a. de c.v.
Av. Toluca No. 323, Col. Olivar
de los Padres 01780 Mexico D.F.
MEXICO
TEL: (55) 5668-6699

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

PARAGUAY
**Distribuidora De
Instrumentos Musicales**
J.E. Olear y ESQ. Manduvira
Asuncion PARAGUAY
TEL: (021) 492-124

URUGUAY
Todo Musica S.A.
Francisco Acuna de Figueroa 1771
C.P.: 11.800
Montevideo, URUGUAY
TEL: (02) 924-2335

VENEZUELA
Musicland Digital C.A.
Av. Francisco de Miranda,
Centro Parque de Cristal, Nivel
C2 Local 20 Caracas
VENEZUELA
TEL: (212) 285-8586

EUROPE

AUSTRIA
Roland Austria GES.M.B.H.
Siemensstrasse 4, P.O. Box 74,
A-6063 RUM, AUSTRIA
TEL: (0512) 26 44 260

**BELGIUM/HOLLAND/
LUXEMBOURG**
Roland Benelux N. V.
Houtstraat 3, B-2260, Oevel
(Westerlo) BELGIUM
TEL: (014) 575811

CZECH REP.
K-AUDIO
Kardasovska 626.
CZ-198 00 Praha 9,
CZECH REP.
TEL: (2) 666 10529

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

FRANCE
Roland France SA
4, Rue Paul Henri SPAAK,
Parc de l'Esplanade, F 77 462 St.
Thibault, Lagny Cedex FRANCE
TEL: 01 600 73 500

FINLAND
**Roland Scandinavia As,
Filial Finland**
Elannontie 5
FIN-01510 Vantaa, FINLAND
TEL: (0)9 68 24 020

GERMANY
**Roland Elektronische
Musikinstrumente HmbH.**
Oststrasse 96, 22844 Norderstedt,
GERMANY
TEL: (040) 52 60090

GREECE
**STOLLAS S.A.
Music Sound Light**
155, New National Road
Patras 26442, GREECE
TEL: 2610 435400

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

IRELAND
Roland Ireland
G2 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) 937-78300

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

POLAND
MX MUSIC SP.Z.O.O.
UL. Gibraltarska 4.
PL-03664 Warszawa POLAND
TEL: (022) 679 44 19

PORTUGAL
**Tecnologias Musica e Audio,
Roland Portugal, S.A.**
Cais Das Pedras, 8/9-1 Dto
4050-465 PORTO
PORTUGAL
TEL: (022) 608 00 60

ROMANIA
FBS LINES
Piata Libertatii 1,
535500 Gheorgheni, ROMANIA
TEL: (266) 364 609

RUSSIA
MuTek
3-Bogatyrskaya Str. 1.k.l
107 564 Moscow, RUSSIA
TEL: (095) 169 5043

SPAIN
**Roland Electronics
de España, S. A.**
Calle Bolivia 239, 08020
Barcelona, SPAIN
TEL: (93) 308 1000

SWEDEN
**Roland Scandinavia A/S
SWEDISH SALES OFFICE**
Danvik Center 28, 2 tr.
S-131 30 Nacka SWEDEN
TEL: (0)8 702 00 20

SWITZERLAND
Roland (Switzerland) AG
Landstrasse 5, Postfach,
CH-4452 Itingen,
SWITZERLAND
TEL: (061) 927-8383

UKRAINE
TIC-TAC
Mira Str. 19/108
P.O. Box 180
295400 Munkachevo, UKRAINE
TEL: (03131) 414-40

UNITED KINGDOM
Roland (U.K.) Ltd.
Atlantic Close, Swansea
Enterprise Park, SWANSEA
SA7 9FJ,
UNITED KINGDOM
TEL: (01792) 702701

MIDDLE EAST

BAHRAIN
Moon Stores
No.16, Bab Al Bahrain Avenue,
P.O.Box 247, Manama 304,
State of BAHRAIN
TEL: 211 005

CYPRUS
Radex Sound Equipment Ltd.
17, Diagorou Street, Nicosia,
CYPRUS
TEL: (022) 66-9426

IRAN
MOCO, INC.
No.41 Nike St., Dr.Shariyati Ave.,
Roberoye Cerahe Mirdamad
Tehran, IRAN
TEL: (021) 285-4169

ISRAEL
**Halilit P. Greenspoon &
Sons Ltd.**
8 Retzif Ha'aliya Hashnya St.
Tel-Aviv-Yafo ISRAEL
TEL: (03) 6823666

JORDAN
AMMAN Trading Agency
245 Prince Mohammad St.,
Amman 1118, JORDAN
TEL: (06) 464-1200

KUWAIT
Easa Husain Al Yousifi Est.
Abdullah Salem Street,
Safat, KUWAIT
TEL: 243-6399

LEBANON
Chahine S.A.L.
Gerge Zeidan St., Chahine Bldg.,
Achrafieh, P.O.Box: 16-5857
Beirut, LEBANON
TEL: (01) 20-1441

QATAR
**Al Emadi Co. (Badie Studio
& Stores)**
P.O. Box 62, Doha, QATAR
TEL: 4423-554

SAUDI ARABIA
**aDawliah Universal
Electronics APL**
Corniche Road, Aldossary Bldg.,
1st Floor, Alkhobar,
SAUDI ARABIA

P.O.Box 2154, Alkhobar 31952
SAUDI ARABIA
TEL: (03) 898 2081

SYRIA
**Technical Light & Sound
Center**
Khaled Ebn Al Walid St.
Bldg. No. 47, P.O.BOX 13520,
Damascus, SYRIA
TEL: (011) 223-5384

TURKEY
**Ant Muzik Aletleri Ithalat
Ve Ihracat Ltd Sti**
Siraselviler Caddesi Siraselviler
Pasaji No:74/20
Taksim - Istanbul, TURKEY
TEL: (0212) 2499324

U.A.E.
**Zak Electronics & Musical
Instruments Co. L.L.C.**
Zabeel Road, Al Sherooq Bldg.,
No. 14, Grand Floor, Dubai, U.A.E.
TEL: (04) 3360715

NORTH AMERICA

CANADA
**Roland Canada Music Ltd.
(Head Office)**
5480 Parkwood Way Richmond
B. C., V6V 2M4 CANADA
TEL: (604) 270 6626

**Roland Canada Music Ltd.
(Toronto Office)**
170 Admiral Boulevard
Mississauga On L5T 2N6
CANADA
TEL: (905) 362 9707

U. S. A.
Roland Corporation U.S.
5100 S. Eastern Avenue
Los Angeles, CA 90040-2938,
U. S. A.
TEL: (323) 890 3700

As of November 1, 2003 (Roland)

This owner's manual is printed on recycled paper.

Roland Corporation

03454012   '03-11-1KS

VM-7100/7200

VM-7100/7200   1.7   DIF-AT24

                VM-7100/7200   1.7

1   VM-7100/7200   VM-C7100/C7200

2

3   On Display   0

     Unit X   Version : 1.XXX

4   1.XXX

When connecting to the VM-7100/7200

The DIF-AT24 will not operate correctly if the VM-7100/7200 system version is earlier than 1.7.

Use the following procedure to check the system version, and be sure to update to system version 1.7 or later.

For details on updating, please contact the nearest Roland office or service center.

■ To check the version

1   **Connect the VM-7100/7200 to the VM-C7100/C7200.**

2   **Turn on the power to start up the system.**

3   **Hold down [On Display] and press numeric key [0].**
The version display screen will appear, with an indication like the following:
"Unit X Version: 1.XXX"

4   **Note the version number shown in "1.XXX"**