# MR816csx MR816csx MR816x Advanced integration dsp studio





# FCC INFORMATION (U.S.A.)

- IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT! This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
- 2. **IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
- 3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee

\* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures: Relocate either this product or the device that is being affected

by the interference. Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620 The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

(class B)

#### COMPLIANCE INFORMATION STATEMENT (DECLARATION OF CONFORMITY PROCEDURE)

Responsible Party :	Yamaha Corporation of America
Address :	6600 Orangethorpe Ave., Buena Park, Calif.
	90620
Telephone :	714-522-9011
Type of Equipment :	ADVANCED INTEGRATION DSP STUDIO
Model Name :	MR816CSX/MR816X

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

 this device must accept any interference received including interference that may cause undesired operation.

See user manual instructions if interference to radio reception is suspected.

This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

(FCC DoC)

#### IMPORTANT NOTICE FOR THE UNITED KINGDOM Connecting the Plug and Cord

IMPORTANT. The wires in this mains lead are coloured in accordance with the following code:

BLUE : NEUTRAL

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

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.

Making sure that neither core is connected to the earth terminal of the three pin plug.

• This applies only to users in the United Kingdom.

(2 wires)

#### **OBSERVERA!**

Apparaten kopplas inte ur växelströmskällan (nätet) så länge som den ar ansluten till vägguttaget, även om själva apparaten har stängts av.

**ADVARSEL:** Netspæendingen til dette apparat er IKKE afbrudt, sålæenge netledningen siddr i en stikkontakt, som er t endt — også selvom der or slukket på apparatets afbryder.

VAROITUS: Laitteen toisiopiiriin kytketty käyttökytkin ei irroita koko laitetta verkosta.

(standby)

# SPECIAL MESSAGE SECTION

This product utilizes batteries or an external power supply (adapter). DO NOT connect this product to any power supply or adapter other than one described in the manual, on the name plate, or specifically recommended by Steinberg/Yamaha.

**WARNING:** Do not place this product in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! If you must use an extension cord, the minimum wire size for a 25' cord (or less) is 18 AWG. NOTE: The smaller the AWG number, the larger the current handling capacity. For longer extension cords, consult a local electrician.

This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by Steinberg/Yamaha. If a cart, etc., is used, please observe all safety markings and instructions that accompany the accessory product.

#### SPECIFICATIONS SUBJECT TO CHANGE:

The information contained in this manual is believed to be correct at the time of printing. However, Steinberg/Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. DO NOT operate for long periods of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.

IMPORTANT: The louder the sound, the shorter the time period before damage occurs.

Some Steinberg/Yamaha products may have benches and / or accessory mounting fixtures that are either supplied with the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured BEFORE using.

BEFORE using. Benches supplied by Steinberg/Yamaha are designed for seating only. No other uses are recommended.

#### NOTICE:

Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

#### **ENVIRONMENTAL ISSUES:**

Steinberg/Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

#### **Battery Notice:**

This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

This product may also use "household" type batteries. Some of these may be rechargeable. Make sure that the battery being charged is a rechargeable type and that the charger is intended for the battery being charged.

When installing batteries, do not mix batteries with new, or with batteries of a different type. Batteries MUST be installed correctly. Mismatches or incorrect installation may result in overheating and battery case rupture.

#### Warning:

Do not attempt to disassemble, or incinerate any battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by the laws in your area. Note: Check with any retailer of household type batteries in your area for battery disposal information.

#### **Disposal Notice:**

Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc. If your dealer is unable to assist you, please contact Steinberg/Yamaha directly.

#### NAME PLATE LOCATION:

The name plate is located on the top panel of the product. The name plate lists the product's model number, power requirements, and other information. The serial number is located on the rear panel. Please record the model number, serial number, and date of purchase in the spaces provided below, and keep this manual as a permanent record of your purchase.

Model

Serial No.

**Purchase Date** 

PLEASE KEEP THIS MANUAL

92-BP (others)

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# PRECAUTIONS

### PLEASE READ CAREFULLY BEFORE PROCEEDING

\* Please keep this manual in a safe place for future reference.

# A WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

#### Power supply/AC power adaptor

- Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument.
- Use the specified adaptor (PA-30 or an equivalent recommended by Yamaha) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.
- Do not place the AC adaptor cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.

#### Do not open

• Do not open the instrument or attempt to disassemble the internal parts or modify them in any way. The instrument contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Steinberg/Yamaha service personnel.

#### Water warning

- Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings. If any liquid such as water seeps into the instrument, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Steinberg/Yamaha service personnel.
- · Never insert or remove an electric plug with wet hands.

#### Fire warning

• Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

#### If you notice any abnormality

 If the AC adaptor cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the instrument, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the adaptor plug from the outlet, and have the instrument inspected by qualified Steinberg/Yamaha service personnel.

# 

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following:

#### Power supply/AC power adaptor

- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord.
- Unplug the AC power adaptor when not using the instrument, or during electrical storms.
- Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.

#### Location

- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV, or radio may generate noise.
- Do not place the instrument in an unstable position where it might accidentally fall over.
- · Before moving the instrument, remove all connected adaptor and other cables.
- When setting up the product, make sure that the AC outlet you are using is
  easily accessible. If some trouble or malfunction occurs, immediately turn off
  the power switch and disconnect the plug from the outlet. Even when the power
  switch is turned off, electricity is still flowing to the product at the minimum
  level. When you are not using the product for a long time, make sure to unplug
  the power cord from the wall AC outlet.
- Use only the rack specified for the instrument. When attaching the stand or rack, use the provided screws only. Failure to do so could cause damage to the internal components or result in the instrument falling over.
- Do not place objects in front of the instrument's air vent, since this may prevent adequate ventilation of the internal components, and possibly result in the instrument overheating.

#### Connections

Before connecting the instrument to other electronic components, turn off the
power for all components. Before turning the power on or off for all
components, set all volume levels to minimum. Also, be sure to set the volumes
of all components at their minimum levels and gradually raise the volume
controls while playing the instrument to set the desired listening level.

#### Maintenance

• When cleaning the instrument, use a soft, dry cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

#### Handling caution

- Take care that the key cover does not pinch your fingers, and do not insert a finger or hand in any gaps on the instrument.
- Never insert or drop paper, metallic, or other objects into the gaps on the panel. If this happens, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Steinberg/ Yamaha service personnel.
- Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.
- Do not use the instrument/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

#### Saving data

#### Saving and backing up your data

- Storing the settings to internal memory of the MR816 CSX/MR816 X must be performed from the MR Editor on the computer. If you use the MR816 CSX/MR816 X with MR Editor, you can store the settings to internal memory by storing the settings as a Scene or recalling the Scene on the MR Editor. Also, you can save 20 Scenes as an Editor file to the computer. If you use the MR816 CSX/MR816 X with Cubase, you cannot store the settings to internal memory of the MR816 CSX/MR816 X. Save the settings as a project file to the computer. You should also save your Project files or Editor files onto external media as backup to avoid the loss of important data due to equipment malfunction or improper operation.
- If you want to store the settings edited on the MR816 CSX/MR816 X without a computer, launch the MR Editor with the computer and MR connected, then perform the Scene Store operation. This operation will store the settings to the internal memory of the MR816 CSX/MR816 X and the MR Editor as a Scene.

Steinberg/Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed.

Always turn the power off when the instrument is not in use.

Even when the power switch is in the "STANDBY" position, electricity is still flowing to the instrument at the minimum level. When you are not using the instrument for a long time, make sure you unplug the AC power adaptor from the wall AC outlet.

#### **Special Notice**

- This manual is the exclusive copyrights of Yamaha Corporation.
- The screen displays as illustrated in this manual are for instructional purposes, and may appear somewhat different from the screens which appear on your computer.
- This product incorporates and bundles computer programs and contents in which Steinberg Media Technologies GmbH and Yamaha Corporation own copyrights or with
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  copyright has legal consequences. DON'T MAKE, DISTRIBUTE OR USE ILLEGAL COPIES.
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# Introduction

Thank you for purchasing the ADVANCED INTEGRATION DSP STUDIO MR816 CSX/MR816 X. This audio interface device enables you to transfer the digital/analog audio signals between the DAW software such as Cubase on your computer and the audio equipments including the electronic musical instrument, guitar and microphone. Furthermore, this product features the Link functions with the Cubase resulting that you can build the convenient music production studio.

The MR816 CSX/MR816 X provides the two manuals: "Getting Started" manual (this manual) and "Operation Manual" (PDF file included in the accessory disk). The Getting Started manual (this book) covers the introduction for using the MR816 CSX/MR816 X, such as system requirements of a computer for installing the necessary software, how to install the necessary software and how to connect the audio device and computer to this product. On the other hand, the Operation Manual (PDF file) covers the details about the functions of the MR816 CSX/MR816 X and instructions. Please read the Getting Started manual (this book) at first, then read the Operation Manual (PDF file) so that you can take full advantage of its superlative features and enjoy trouble-free operation for years to come. After reading this manual, please keep it available for future reference.

# **Main Features**

### Link with Cubase <sup>(\*1)</sup>

Install the included software and you can link the MR816 CSX/MR816 X with Cubase for seamless operation-for example, monitoring the Cubase-mixed sound with no latency, and one-button-press assignment of audio inputs to Cubase tracks. Owners of Cubase 4.5 or later can also use the convenient Control Room feature with the MR816. For details about the Link function, refer to page 22.

\*1 This product is designed assuming that Cubase 4.5 or later is used. The Cubase versions that are compatible with the Link function are version 4.5 or later, such as Cubase 4.5 and Cubase AI 4.5. For details, refer to page 22.

#### **High-quality sound**

The MR816 CSX/MR816 X is equipped with eight discrete head amplifiers using the Inverted Darlington Circuitry Design, for superior, highly musical sound with minimal distortion and noise.

#### Mixer function and useful monitoring

The mixer function (with DSP processor) lets you input up to sixteen channels of audio and mix down to eight channels of stereo. Two of these stereo outputs can be assigned for separate monitoring through headphones connected to the PHONE jacks on the front panel. What's more, the monitor sound can be processed with the REV-X reverb effect, allowing you to have a full and natural monitor sound without latency delays.

#### Versatile input/output jacks for professional studio use

The MR816 CSX/MR816 X is equipped with eight mono input jacks (MIC/LINE/HI-Z jack and MIC/LINE jack on the front panel and MIC/LINE/INPUT jacks on the rear panel) which accept both XLR-3-31 and TRS phone plug type connectors. In addition, each of these jacks provides a [PAD] button which enables connection of a wide range of instruments and devices-from condenser microphones to synthesizers and other line-level instruments.

The MIC/LINE/HI-Z jack is compatible with HI-Z (high impedance) inputs, allowing you to connect instruments with high output impedance, such as electric guitar or bass. The MIC/LINE/HI-Z jack and MIC/LINE jack are routed to the INSERT I/O jacks on the rear panel, letting you apply a desired effect (different from the internal one) to the sound already input from the external device. Furthermore, the WCL (Word Clock) jack and the digital jacks are also provided for comprehensive compatibility with devices and applications in professional studios.

#### Sweet Spot Morphing Channel Strip effect (MR816 CSX only)

The MR816 CSX is equipped with eight independent blocks of the Sweet Spot Morphing Channel Strip effect using the new Sweet Spot Morphing Technology developed by Yamaha. These give you a variety of specially programmed compressor/ equalizer settings into which are distilled years of extensive professional engineering experience, letting you quickly and easily achieve professional-level results for your sound by simple panel operations. When connecting the MR816 CSX to a computer, this effect can be applied to the audio signal transferred/recorded to the DAW software (such as Cubase) as well as the sound from audio equipment such as keyboards, guitars and microphones. In addition, a dedicated window lets you create more detailed settings for this effect unit.

#### **REV-X** effect

The MR816 CSX/MR816 X is equipped with the REV-X Effect, a high-quality digital reverb effect unit which can be applied to all input channels. When connecting the MR816 CSX/MR816 X to a computer, this reverb can be applied to the input signal coming from the DAW software as well as the sound from audio equipment such as keyboards, guitars and microphones. In addition, a dedicated window lets you create more detailed settings for this effect unit.

#### Daisy-chain connection of up to three devices

Up to three MR816 CSX/MR816 Xs (two devices when the Sample Rate is set to 88.2 kHz or 96 kHz) can be connected in daisy-chain fashion. You can expand the input/output channels simply by connecting the MR816 CSX/MR816 X additionally to the existing device via an IEEE1394 cable.

# **Package Contents**

This package contains the following items. After opening the package, make sure that it includes all of the items listed below.

- MR816 CSX/MR816 X
- AC power adaptor (PA-30 or equivalent)\*
- MR816 CSX/MR816 X Getting Started (this book)
- IEEE1394 cable
- Cubase AI 4 DVD-ROM
- TOOLS for MR CD-ROM
- Rubber stoppers x 4\*\*
- \* May not be included depending on your particular area. Please check with your Yamaha dealer.
- \*\* The rubber stoppers included in this package can be attached to the specified location on the bottom panel of this device to prevent slippage when it is to be used on a slipper surface.

# About the Disks included in the Package

# **Disk Contents**

Each of the included disks contains the following software (driver).

#### **TOOLS for MR CD-ROM**

#### • TOOLS for MR installer

Executing this installer will install "Yamaha Steinberg FW Driver," "Steinberg MR Editor" and "Steinberg MR Extension" in order.

#### MR816 CSX/MR816 X Operation Manual (PDF)

For complete and detailed information about the MR816 CSX/MR816 X, refer to this PDF manual.

#### **Cubase AI 4 DVD-ROM**

• Cubase AI 4 (Windows/Macintosh)

#### IMPORTANT

• Before breaking the seal of these disk packages, please read carefully the Software License Agreement on page 26 and 27 of this manual. By opening the each of disk packages, you indicate your agreement with the use terms of the software and concurrence with the Software License Agreement.



 To view PDF files, you must install Adobe Reader on your computer. If you do not have Adobe Reader, you can download the application from the Adobe website at the following URL: http://www.adobe.com/

## **Special Notices for the Accessory Disks**

### **A**CAUTION

- Steinberg and Yamaha make no representations or warranties with regard to any problems while attempting to copy the disks or software and cannot be held responsible for the results of attempts to copy the data.
- These disks are NOT for audio/visual purpose. Do not attempt to play the disks on a CD/DVD player. Doing so may result in irreparable damage to your audio CD/DVD player.
- The software (Yamaha Steinberg FW Driver, Steinberg MR Editor and Steinberg MR Extension) included in the TOOLS for MR CD-ROM and the copyrights thereof are under exclusive ownership by Yamaha.
- The software included in the Cubase AI 4 DVD-ROM and the copyrights thereof are under exclusive ownership by Steinberg Media Technologies GmbH.
- Copying/reproduction of the software in whole or in part by any means is expressly forbidden without the written consent of the manufacturer.
- For latest information of the software included in the accessory disks, refer to the web site below. Future upgrades of application and system software and any changes in specifications and functions will be announced separately on the web site.

http://service.steinberg.de/goto.nsf/show/supportupdates\_mr816\_gb

### **System Requirements for Software**

The system requirements below are necessary for installing software included in the accessory disks (TOOLS for MR and Cubase AI 4).

#### NOTE 💋

- · Note that the system requirements may be slightly different from those described below depending on the particular operating system.
- · For details on minimum requirements for other DAW software, refer to the respective owner's manual.

### Windows

#### **TOOLS** for MR

OS			SP2/XP Home Edition					
Computer	SP2/Vista (32bit) Core/Pentium/Celeron family or Athlon family CPU, with an S400 (400 Mbps) IEEE1394 (FireWire) or							
Hard Disk	Free d	lisk space of 160 MB	or more; high-speed					
Windows SP2	s XP P	Professional SP2/2	XP Home Edition					
Reco								
OSin	gle MF	R816 CSX/MR816	X:					
<b>.</b>	-		1.66GHz or more					
OThr	ee MF	R816 CSX/MR816 2	Xs:					
CP	U	: Core 2 Duo : 1GB or more						
Minir	num s	ystem requiremen	ts (*2)					

CPU : Pentium 1.4 GHz or more, or Celeron 1.7 GHz or more Memory : 512 MB or more

#### Windows Vista (32bit)

• Recommended system requirements (\*2) O Single MR816 CSX/MR816 X:

CPU : Core 2 Duo 2.13GHz or more Memory : 1 GB or more

OThree MR816 CSX/MR816 Xs:

CPU	: Core 2 Duo	2.13GHz or more
Memory	: 2GB or more	

- Minimum system requirements (\*2)
  - CPU : Pentium 1.4 GHz or more, or Celeron 1.7 GHz or more
  - Memory : 512 MB or more
  - \*1 The computer must have an IEEE 1394 (FireWire or i.LINK, etc.) connector. If there is no connector, install an IEEE1394 interface card (PCI or PC). For details, refer to the following URL: http://service.steinberg.de/goto.nsf/show/ supportupdates\_mr816\_gb
  - \*2 The system requirements listed here apply when playing the following audio/MIDI data on the included Cubase AI 4 software. This may differ depending on the particular DAW you are using.

Recommended system requirements (single MR816 CSX/MR816 X)

Frequency/resolution: 44.1 kHz/24 bit Audio playback tracks: 16 Audio recording tracks: 1 MIDI playback tracks: 2 Send effects (plug-in): 3 Insert effects (plug-in): 9 Plug-in synthesizer: 2 Latency: about 6 msec

Recommended system requirements (three MR816 CSX/MR816 Xs)

Frequency/resolution: 44.1 kHz/24 bit Audio playback tracks: 16 Audio recording tracks: 2 Latency: about 6 msec

Minimum system requirements Frequency/resolution: 44.1 kHz/24 bit Audio playback tracks: 15 Send effects (plug-in): 3 Insert effects (plug-in): 9 Plug-in synthesizer: none Latency: about 50 msec

### Macintosh

#### **TOOLS for MR**

OS Mac OS X 10.4.x, Mac OS X 10.5.x Hard Disk Free disk space of 100 MB or more; high-speed hard disk

- Recommended system requirements (\*1)
  - OSingle MR816 CSX/MR816 X:

CPU : PowerPC G5 2.0 GHz Dual or higher, or Core Solo 1.5 GHz or more Memory : 1 GB or more

OThree MR816 CSX/MR816 Xs: CPU : Core Duo 2.16 GHz or more Memory : 1 GB or more

#### • Minimum system requirements (\*1)

CPU : PowerPC G4 1GHz or more Memory : 512 MB or more

\*1 The system requirements listed here apply when playing the following audio/MIDI data on the included Cubase AI 4 software. This may differ depending on the particular DAW you are using.

# Recommended system requirements (single MR816 CSX/MR816 X)

Frequency/resolution: 44.1 kHz/24 bit Audio playback tracks: 16 Audio recording tracks: 1 MIDI playback tracks: 2 Send effects (plug-in): 3 Insert effects (plug-in): 9 Plug-in synthesizer: 2 Latency: about 5 msec

#### NOTE

 When using a laptop or notebook computer, a built-in IEEE1394 terminal may not be available. If this is the case, install an appropriate PC interface card.

#### Cubase Al 4.5

OS:	Windows XP Professional/XP Home Edition/Vista (32 bit)
CPU:	Pentium/Athlon 1.4GHz or more
Memory:	512 MB or more
Image	
resolution:	1280 x 800 - full color
Hard disk:	1 GB or more
Image resolution:	1280 x 800 - full color

#### IMPORTANT

- A DVD drive is required for installation.
- In order to have continuous use of Cubase AI 4, including support and other benefits, you will need to register the software and activate your software license by starting it while the computer is connected to the Internet.

Recommended system requirements (three MR816 CSX/MR816 Xs) Frequency/resolution: 44.1 kHz/24 bit Audio playback tracks: 16 Audio recording tracks: 2 Latency: about 5 msec

Minimum system requirements Frequency/resolution: 44.1 kHz/24 bit Audio playback tracks: 15 Send effects (plug-in): 3 Insert effects (plug-in): 9 Plug-in synthesizer: none Latency: about 50 msec

#### Cubase Al 4.5

OS:	Mac OS X 10.4.x, Mac OS X 10.5.x
CPU:	PowerPC G4 1GHz or Core Solo 1.5 GHz or more
Memory:	512 MB or more
Image	
resolution:	1280 x 800 - full color
Hard disk:	1 GB or more

#### IMPORTANT

- A DVD drive is required for installation.
- In order to have continuous use of Cubase AI 4, including support and other benefits, you will need to register the software and activate your software license by starting it while the computer is connected to the Internet.

# **The Controls and Connectors**

# **Front Panel**



- 1 [HI-Z] switch
- MIC/LINE/HI-Z jack 1 (analog input jack 1) and MIC/LINE jack 2 (analog input jack 2)
- **③** [QUICK CONNECT] buttons (with LED lamps)
- (I) [SIG/PEAK] lamps
- Gain knobs 1 8
- [+48V] button (phantom power button; with LED lamps)
- PAD] button (with LED lamps)

#### (a) [ASSIGN] lamps

#### NOTE

- The [MORPH] lamp is available only on the MR816 CSX. The MR816 X is not equipped with the [MORPH] lamp.
- Word Clock Source lamps
- **1** Sample Rate lamps
- Multi Function encoder knobs 1 and 2 (with LED lamps)
- Headphone jacks 1 and 2
- (STANDBY/ON) switch

### **Rear Panel**



- AC ADAPTOR IN jack
- **2** S/PDIF IN/OUT jack
- **③** OPTICAL IN/OUT jack
- IEEE1394 jack 1 and 2
- **G** WCLK IN/OUT jack (wordclock in/out jack)
- **OUTPUT** jacks 1 8 (analog output jacks 1 8)
- MIC/LINE INPUT jacks 3 8 (analog input jacks 3 8)
- INSERT I/O jacks 1 and 2

# **Turning the Power On and Off**

# **Power Supply**

1 Make sure that the [STANDBY/ON] switch of the MR816 CSX/MR816 X is in the STANDBY position.

# 

- Use only the included power adaptor (PA-30) or an equivalent recommended by Yamaha). Use of a different adaptor may result in equipment damage, overheating, or fire. Doing so will also immediately void the product warranty, even if the effective warranty period has not expired.
- 2 Connect the power adaptor to the AC ADAPTOR IN jack (1) on the rear panel of the MR816 CSX/ MR816 X, then turn the fastening ring clockwise (2) to secure the connection.



**3** Plug the power adaptor into a standard household power outlet.

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- Be sure to unplug the adaptor from the outlet when you are not using the MR816 CSX/MR816 X, or when lightning storms are expected in your area.
- Make sure that there is adequate distance between the power adaptor and the MR816 CSX/MR816 X. Otherwise, noise may be generated.

# **Turning the Power On and Off**

- **1** To turn the power on, press the [STANDBY/ON] switch to the ON position.
- 2 To turn the power off, press the [STANDBY/ON] switch to the STANDBY position.

### **A**CAUTION

• Note that a small amount of current continues to flow while the switch is in the STANDBY position. If you do not plan to use the MR816 CSX/MR816 X for an extended period of time, please be sure to unplug the adaptor from the wall outlet.

#### ΝΟΤΕ 🂋

 To prevent sudden loud sounds from being produced from your speakers, power-on your equipment starting at the audio source (instrument, mic, CD player, etc.) and working downstream.

#### Example:

Instruments, microphines, CD players, and other peripheral devices  $\rightarrow$  MR816 CSX/MR816 X  $\rightarrow$  Powered speakers (power amps)

When turning the power off, reverse the above sequence.

### A WARNING

 Before you connect external devices to the MR816 CSX/ MR816 X, turn off the power to all devices. Before turning the power on or off to all components, set all volume levels to minimum (0). Otherwise, electrical shock or damage to the components may occur.

# **Software Installation**

To use the MR816 CSX/MR816 X, you must first install the software on the computer. This section explains the software installation. Install Cubase AI 4 before you install TOOLS for MR.

#### NOTE

 If you have already installed a version of Cubase (page 21) compatible with the Link function, such as Cubase 4.5, the instructions for "Installing Cubase AI 4" are not necessary. Jump to the next section "Installing TOOLS for MR."

# **Installing Cubase AI 4**

#### **IMPORTANT**

- Before breaking the seal of the Cubase AI 4 DVD-ROM package, please read carefully the Steinberg Software End User License Agreement (EULA) on page 27 of this manual. By opening the disk package, you indicate your agreement with the use terms of the software and concurrence with the Software End User License Agreement.
- **1** Start the computer and log on to the Administrator account.
- 2 Insert the Cubase AI 4 DVD-ROM into the DVD-ROM drive.
- **3** For Windows, open the "Cubase Al4 for Windows" folder and double-click on the "CubaseAl4.msi" file. For Macintosh, open the "Cubase Al4 for MacOS X" folder and doubleclick on the "CubaseAl4.mpkg" file.

Follow the on-screen instructions to install Cubase AI 4.

ΝΟΤΕ 灯

In order to have continuous use of Cubase AI 4, including support and other benefits, you will need to register the software and to activate your software license by starting it while the computer is connected to the Internet. Click the "Register Now" button shown when the software is started, then fill in all required fields for registration. If you do not register the software, you will be unable to use it after a limited period of time expires.

### Installing TOOLS for MR

### **A**CAUTION

 Keep in mind that noise may be generated when installing or uninstalling the TOOLS for MR. Before performing either of these operations, make sure to lower the output level of each device.

TOOLS for MR consists of three software components: Yamaha Steinberg FW Driver, Steinberg MR Editor and Steinberg MR Extension. Yamaha Steinberg FW Driver enables audio signals to be transferred between a computer and the MR816 CSX/MR816 X via IEEE1394 cables. Steinberg MR Editor enables you to perform all settings on the MR816 CSX/MR816 X (including basic parameters and system-related parameters), allowing you to remotely control the MR816 CSX/MR816 X from the computer and save parameter settings for the MR816 CSX/MR816 X as a file. Steinberg MR Extension enables you to use the Link function between the MR816 CSX/MR816 X and versions of Cubase (page 21) that are compatible with this function, such as Cubase 4.5/Cubase AI4.5. The TOOLS for MR Installer installs these three software components.

#### 

 Make sure to install a version of Cubase (page 21) compatible with the Link function, such as Cubase 4.5/Cubase AI 4.5, before installing Steinberg MR Extension. Project templates for the MR816 CSX/MR816 X will be installed in the Cubase installation destination.

#### If using a Windows installed Yamaha n Driver, Yamaha Al Driver, or mLAN Driver/mLAN Tools:

- Before turning on the power of the MR816 CSX/ MR816 X connected to the computer, disable these drivers. If these drivers are enabled (on), they may use the IEEE1394 interface (used for connecting the MR816 CSX/MR816 X) and cause the computer to be unable to recognize the MR816 CSX/MR816 X. Note that you may not need to disable these drivers when the computer is equipped with multiple IEEE1394 interfaces and the MR816 CSX/MR816 X is connected to a device different from that used by these drivers.
- If you're using V1.6.0 to 1.6.2 of these drivers, update them to V1.6.3 (or higher) beforehand. This is necessary since the Yamaha Steinberg FW Driver cannot work together with drivers of versions 1.6.0 to 1.6.2.

### ■ Windows XP:

#### Preparing to install

- 1 Make sure that the power to the MR816 CSX/ MR816 X is turned off.
- 2 Using an IEEE1394 cable, connect the MR816 CSX/MR816 X directly to the computer (without using a hub), and disconnect all other IEEE1394 devices from the computer.
- **3** Start the computer and log on to the Administrator account.
- 4 Select [Start] (→ [Settings]) → [Control Panel]. If the control panel appears as shown below, click "Switch to Classic View" in the upper left of the window.

All control panels and icons will be displayed.



5 Go to [System] → [Hardware] → [Driver Signing] → [Driver Signing Options], and select the radio button to the left of "Ignore - Install the software anyway and don't ask for my approval" and click [OK].

System Properties		?×
System Restore Automatic	Updates Remo	e
General Computer Name	Hardware Advan	-
Add Hardware Wizard	you install hardware.	
(	Add Hardware Wizard	
- Device Manager		
The Device Manager lists all the on your computer. Use the Devic properties of any device.		
Driver Signing	Device Manager	
Hardware Profiles Hardware profiles provide a way different hardware configurations		
(	Hardware Profiles	
OK	Cancel A	oply
Driver Signing Options	?	×
During hardware installation, Windows n has not passed Windows Logo testing to Windows. ( <u>Tell me why this testing is im</u>	verify its compatibility with	
→What action do you want Windows to	take?	-
<ul> <li>Ignore - Install the software any approval</li> </ul>		
Warn - Prompt me each time to ch	noose an action	
O Block - Never install unsigned driv	er software	
Administrator option		
Make this action the system defa	ult .	
	OK Cancel	ו

#### 

- After completing the installation, make sure to restore the original setting if necessary.
- 6 Check that no "!" or "x" marks appear next to "IEEE1394 Bus host controllers" in ([System] → [Hardware] →) [Device Manager]. If one of these marks is shown, the IEEE1394/i.LINK connection cannot be used. Refer to the owner's manual of your computer for details.
- 7 Close the Device Manager window, System Properties window and Control Panel by clicking the [OK] button or the Close button ([X]) of the windows.
- 8 Exit any open applications and close all open windows.
- 9 Insert the TOOLS for MR CD-ROM into the CD-ROM drive.

#### **Software Installation**

The installer will install the following three software components to your computer.

- · Yamaha Steinberg FW Driver
- · Steinberg MR Editor
- $\cdot$  Steinberg MR Extension

#### NOTE

Use the Cancel button or Close button to quit the installation. Quitting by using the [Ctrl]+[Alt]+[Delete] buttons or by turning off the power while installation is in process can result in problems since the installation is terminated without performing a proper uninstall.

# **10** Open the CD-ROM, then double-click the file "setup.exe."

A "Welcome to the InstallShield Wizard for TOOLS for MR" window appears.



11 Click [Next].

12 Follow the on-screen instructions in the Setup window for Yamaha Steinberg FW Driver, Steinberg MR Editor and Steinberg MR Extension appearing in order.

#### NOTE 🖉

- If the same version of each software component has already been installed in your computer, the installation window of the corresponding software will not appear.
- If a message "The software you are installing has not passed Windows Logo Testing" appears, click [Continue Anyway]. You do not need to abort the installation. If the message does not appear, proceed to the next step.
- **13** When installation is complete, a message indicating so appears. If restarting of the computer is necessary following successful completion of the installation, make sure that the radio button to the left of "Yes, I want to restart my computer now" is selected, then click [Finish] to restart the computer. If restarting the computer is unnecessary, click [Finish] to exit the installation process.

#### When canceling the installation:

If you've cancelled an installation before it is complete, the software may not have been installed properly. To install the software properly, resume the procedure from Step **10**.

#### Initial settings of driver

After you've installed TOOLS for MR, perform the initial settings of the driver.

#### NOTE

A dialog box may appear asking you whether you wish to connect to Windows Update. In this case, select the radio button to the left of "Not at this time," then click [Next].

#### Bus driver initial settings

14 The "Found New Hardware Wizard" window appears. Select the radio button next to "Install the software automatically [Recommended]," then click [Next].



### **15** When installation is complete, a message indicating so appears. Click [Finish].

#### NOTE

If multiple IEEE1394 interfaces have been installed to the computer, the wizard appears several times. Exit the wizard each time.

#### Initial Settings of MR816 Series Driver

16 Connect the MR816 CSX/MR816 X to the computer, then turn on the power to the MR816 CSX/MR816 X. MR816 X. The "Found New Hardware Wizard" window is dis-

The "Found New Hardware Wizard" window is displayed.

- 17 Select the radio button next to "Install the software automatically [Recommended]," then click [Next].
- **18** When installation is complete, a message indicating so appears. Click [Finish].

#### WDM Audio driver initial settings

- 19 The "Found New Hardware Wizard" window appears. Select the radio button next to "Install the software automatically [Recommended]," then click [Next].
- 20 When installation is complete, a message indicating so appears.

Click [Finish].

The Clock Source lamps and the Sample Rate lamps of the MR816 CSX/MR816 X flash sequentially then the flashing stops indicating that the initial settings have been completed.

#### ΝΟΤΕ 🖉

 When a new IEEE1394 interface is installed to the computer or the second or later MR816 CSX/MR816 X is connected to the computer, the "Found New Hardware Wizard" window will appear. In that case, finish the wizard in the same way as described here.

#### Confirming the installation

- **1** Select [Control Panel] from the Start menu.
- 2 Double-click on the System icon to call up the System Properties window.
- **3** Select the Hardware tab and click [Device Manager].
- 4 Click on the [+] mark next to "Sound, video and game controllers," and confirm that "Steinberg MR816 Series," "Yamaha Steinberg FW Bus" and "Yamaha Steinberg FW WDM Audio" are listed.



#### Uninstalling the Software

To uninstall TOOLS for MR, you must remove the following three software components:

- · Yamaha Steinberg FW Driver
- · Steinberg MR Editor
- · Steinberg MR Extension
- 1 Make sure the POWER switch on the MR816 CSX/MR816 X is set to OFF, exit from any open applications and close all open windows.
- 2 From the Start menu, select ([Settings] →) [Control Panel] → [Add or Remove Programs] to display the Add or Remove Programs panel.
- **3** Click "Change or Remove Programs" located in the upper left, then select "Yamaha Steinberg FW Driver," "Steinberg MR Editor" and "Steinberg MR Extension" from the list in the right panel.
- 4 To uninstall the software, click [Change or Remove] / [Remove]. Follow the instructions to remove the software.

### Windows Vista:

#### Preparing to install

- 1 Make sure that the power to the MR816 CSX/ MR816 X is turned off.
- 2 Using an IEEE1394 cable, connect the MR816 CSX/MR816 X directly to the computer (without using a hub), and disconnect all other IEEE1394 devices from the computer.
- **3** Start the computer and log on to the Administrator account.
- 4 Select [Start] → [Control Panel]. If the control panel appears as shown below, click "Switch to Classic View" in the upper left of the window. All control panels and icons will be displayed.

Control Panel		
Control Panel Home <u>Classic View</u>	System and Main Get started with Windo Back up your compute	WS
	Security Check for updates Check this computer's Allow a program th Firewall	

#### 5 Double-click the Device Manager icon.

#### NOTE 🖉

If the "User Account Control" window appears, click [Continue].
 A dialog box appears.

- 6 Check that no "!" or "x" marks appear next to "IEEE1394 Bus host controllers." If one of these marks is shown, the IEEE1394/i.LINK connection cannot be used. Refer to the owner's manual of your computer for details.
- 7 Click the Close button ([x]) at the top right of the Device Manager window, then click the Close button ([x]) at the top right of the Control Panel window to close it.
- 8 Exit any open applications and close all open windows.
- **9** Insert the TOOLS for MR CD-ROM into the CD-ROM drive of your computer.

#### **Software Installation**

The installer will install the following three software components to your computer.

- Yamaha Steinberg FW Driver
- · Steinberg MR Editor
- · Steinberg MR Extension

NOTE

 Use the Cancel button or Close button to quit the installation. Quitting by using the [Ctrl]+[Alt]+[Delete] buttons or by turning off the power while installation is in process can result in problems since the installation is terminated without performing a proper uninstall.

#### 10 Open the CD-ROM then double-click the file "setup.exe."

A "Welcome to the InstallShield Wizard for TOOLS for MR" window appears.

TOOLS for MR - InstallShield Wizard		×
	Welcome to the InstallShield Wizard for TOOLS for MR	
	This program will install the following three components. 'Yamaha Steinberg FW Driver Steinberg MR Editor Steinberg MR Extension Before executing this setup program, make sure to turn off the power to all the IEEE1394 devices connected to the computer then exit all the programs and close all the unnecessary windows on the computer.	
	< Back Next > Cancel	

#### ΝΟΤΕ 💋

If the "User Account Control" window appears, click [Continue]. A dialog box appears.

#### 11 Click [Next].

12 Follow the on-screen instructions in the Setup window for Yamaha Steinberg FW Driver, Steinberg MR Editor and Steinberg MR Extension appearing in order.

#### 

- If the same version of each software component has already been installed in your computer, the installation window of the corresponding software will not appear.
- If the "Windows Security" window appears, confirm that the publisher is "YAMAHA CORPORATION," then click [Install].

Windows Security	x
Would you like to install this device software?	
Name: Yamaha Sound, video and game controllers Publisher: YAMAHA CORPORATION	
Always trust software from "YAMAHA CORPORATION".	Install Don't Install
You should only install driver software from publishers you <u>device software is safe to install?</u>	trust. How can I decide which

**13** When installation is complete, a message indicating so appears. If restarting of the computer is necessary following successful completion of the installation, make sure that the radio button to the left of "Yes, I want to restart my computer now" is selected, then click [Finish] to restart the computer. If restarting the computer is unnecessary, click [Finish] to exit the installation process.

#### When canceling the installation

If you've cancelled an installation before it is complete, the software may not have been installed properly. To install the software properly, resume the procedure from Step **10**.

#### Initial settings of driver

After you've installed TOOLS for MR, perform the initial settings of the driver.

#### NOTE 🖉

· If the "User Account Control" window appears, click [Continue].

#### 14 Connect the MR816 CSX/MR816 X to the computer, then turn on the power to the MR816 CSX/ MR816 X.

The Clock Source lamps and the Sample Rate lamps of the MR816 CSX/MR816 X flash sequentially then the flashing stops indicating that the initial settings have been completed.

#### NOTE

- If the Word Clock Source lamps and Sample Rate lamps of the MR816 CSX/MR816 X do not flash in order after waiting a while, restart the computer.
- If the "User Account Control" window appears when you install a new IEEE1394 interface to the computer, click [Continue].

#### Confirming the installation

- **1** Select [Control Panel] from the Start menu.
- 2 Double-click the Device Manager icon.

#### NOTE

· If the "User Account Control" window appears, click [Continue]. A dialog box appears.

**3** Click on the [+] mark next to "Sound, Video and game controllers" and confirm that "Steinberg MR816 Series," "Yamaha Steinberg FW Bus" and "Yamaha Steinberg FW WDM Audio" are listed.



#### **Uninstalling the Software**

To uninstall TOOLS for MR, you must remove the following three software components:

- Yamaha Steinberg FW Driver
- · Steinberg MR Editor
- · Steinberg MR Extension
- 1 Make sure that the power to the MR816 CSX/ MR816 X is turned off. Exit any open applications and close all open windows.
- 2 From the Start menu, select [Control Panel] → [Programs and Features] to display the Uninstall or change a program panel.
- **3** Select "Yamaha Steinberg FW Driver," "Steinberg MR Editor" and "Steinberg MR Extension" from the list.
- 4 To uninstall the software, click [Uninstall]/[Uninstall/Change].

If the "User Account Control" window appears, click [Continue]. A dialog box appears. Follow the instructions to remove the software.

### Macintosh:

#### **Preparing to install**

- 1 Make sure that the power to the MR816 CSX/ MR816 X is turned off.
- 2 Using an IEEE1394 (Firewire) cable, connect the MR816 CSX/MR816 X directly to the computer (without using a hub), and disconnect all other IEEE1394 devices from the computer.
- **3** Start the computer and log in to the Administrator account.
- 4 Exit any open applications and close all open windows.
- 5 Insert the TOOLS for MR CD-ROM into the CD-ROM drive of your computer.

#### **Software Installation**

- 6 Open the CD-ROM, then double-click the file "TOOLS for MR.mpkg."
- 7 A dialog box appears asking if you want to install the software. Click [Continue].

The "Welcome to the TOOLS for MR Installer" window appears.



8 Click [Continue].

The "Select Destination" window appears.

#### NOTE

- · Only the boot disk can be selected for the installer.
- If you are using Mac OS X 10.5 (Leopard), click [Continue] to call up the "Installation Type" window.

#### 9 Click [Continue].

The "Installation Type" window appears.

#### 10 Click [Install].

The "Authenticate" window appears.

#### NOTE

- If an older version of each software component has already been installed in your computer, click [Update].
- **11** Enter the Administrator name and the password, then click [OK].

A message appears prompting you to restart the computer after the installation.

#### **12** Click [Continue Installation].

The "Install" window appears indicating the installation progress. When the installation is complete, the "Finish Up" window appears.

ΝΟΤΕ 🖉

 Installation cannot be canceled after clicking [Continue Installation].

#### **13** Click [Restart] to restart the computer.

#### 14 Connect the MR816 CSX/MR816 X to the computer, then turn on the power to the MR816 CSX/ MR816 X.

The Word Clock Source lamps and Sample Rate lamps of the MR816 CSX/MR816 X flash in order then stop, indicating that the initial settings are completed.

NOTE

 If Word Clock Source lamps and Sample Rate lamps of the MR816 CSX/MR816 X do not flash in order after waiting a while, restart the computer.

#### When canceling the installation

If you've cancelled an installation before it is complete, the software may not have been installed properly. To install the software properly, resume the procedure from Step **6**.

#### Confirming the installation

#### Audio MIDI Setup (Audio Devices)

- 1 From the hard disk to which the OS is installed (usually Macintosh HD), click [Applications] → [Utilities], then double-click [Audio MIDI Setup]. The "Audio MIDI Setup" window appears.
- 2 Click [Audio Devices], then select "Yamaha Steinberg FW" from the pull-down menu in [Properties For]. The current audio settings are shown in the [Audio

Input] and [Audio Output] fields.

ΝΟΤΕ 灯

 By selecting "Yamaha Steinberg FW" for [Default Output] in System Settings, you can output audio signals of the system sounds and audio player software (e.g., iTunes, etc.) from the MR816 CSX/MR816 X.

) (	0						Audio M	IDI S	etup						
_					6	Audio	Devices	м	DI Devic	es					
Sy	stem Set	tings													
De	fault Inp	ut:	Yama	aha Ste	inberg	FW		Def	ault Out	put:	Yama	ha St	einberg	FW	
									tem Out		Yama	ıha St	einberg	FW	
Pro	operties	For: (	Yama	aha Ste	inberg	FW	:								- (
Clo	ck Source:	(	MR81	6CSX Int	ernal		•	Г	Configur	e Spea	kers	1	Config	ure De	vice
Au	dio Inpu							Au	dio Out	nut -					
_	Non-Inte		Device		- (1			_	Non-Inte		Device		- (1)		
	Source:	Defau				•		Source:	Defa					:	
	Format:	44100			16ch-2	4hit	0		Format:	-	0.0 Hz	F	16ch	-24bit	1
_			.0 112	DC							0.0 112	9			
Ch	Volume !	Slider		Value n/a	dB n/a	Mute	Thru	Ch	Volume	Slider		_	Value n/a	dB n/a	Mute
1	<u> </u>		_	n/a	n/a n/a	-		1	<u> </u>			_	n/a n/a	n/a n/a	8
2	ŏ		_	n/a	n/a	-	ă II	2	ŏ			_	n/a	n/a	- I
3	ĕ—		_	n/a	n/a	ĕ	ă II	3	ŏ—			_	n/a	n/a	ă I
4	ĕ—		_	n/a	n/a	-	ă II	4	ŏ				n/a	n/a	ă I
5	õ		_	n/a	n/a	ē.	ā II	5	õ			_	n/a	n/a	ā l
6	0		_	n/a	n/a		ē II	6	0			_	n/a	n/a	ē
7	0		_	n/a	n/a		ē II	7	0			_	n/a	n/a	8
8	$\ominus$			n/a	n/a			8	0				n/a	n/a	
9	0		_	n/a	n/a			9	0			_	n/a	n/a	8
10	$\Theta$		_	n/a	n/a			10	0			_	n/a	n/a	
11	0		_	n/a	n/a			11	0			_	n/a	n/a	8
12	$\odot$		_	n/a	n/a			12	0			_	n/a	n/a	8
13	0		_	n/a	n/a			13	0			_	n/a	n/a	
14	0		_	n/a	n/a			14	0			_	n/a	n/a	8
	0			n/a	n/a			15	0			_	n/a	n/a	
15 16				n/a	n/a			16	0				n/a		

#### Uninstalling the Software

To uninstall TOOLS for MR, you must remove the following three software components:

- · Yamaha Steinberg FW Driver
- · Steinberg MR Editor
- · Steinberg MR Extension

#### **Removing Yamaha Steinberg FW Driver**

Remove the following folders and files from the boot disk (usually Macintosh HD).

- /Applications/Yamaha/FWDriver/ Yamaha Steinberg FW Control Panel.app YamahaFWCM.app
- /Library/Application Support/Yamaha/FWDriver/HAL/ YamahaFWHAL.bundle
- /Library/Audio/MIDI Devices/Yamaha/Images/
  - FW\_110006.tiff FW\_110007.tiff FW\_110008.tiff FW\_110009.tiff
- /Library/Audio/MIDI Drivers/ YamahaFWMIDI.plugin
- /Library/LaunchAgents/ com.yamaha.YamahaFWCM.plist

/Library/PreferencePanes/ Yamaha Steinberg FW.prefPane

- /Library/Preferences/ com.yamaha.FWDriver.plist
- /Library/Receipts/ YamahaFWAudioDriver.pkg YamahaFWCM.pkg YamahaFWCP.pkg YamahaFWDriverplist.pkg YamahaFWEnabler.pkg YamahaFWHAL.pkg YamahaFWMIDIIcon.pkg YamahaFWMIDIPlugIn.pkg

- /System/Library/Extensions/ YamahaFWAudioDriver.kext
- /System/Library/Frameworks/ YamahaFWEnabler.framework
- /User/{Account name}/Library/Preference/ com.yamaha.YamahaFWCM.plist
- \* "{Account name}" indicates the account name when Yamaha Steinberg FW Driver is installed.

#### **Removing Steinberg MR Editor**

Remove the following folders and files from the boot disk (usually Macintosh HD).

#### ΝΟΤΕ 灯

- Keep in mind that files with the extension ".ttf" may be in use by other Yamaha applications. We recommend that you avoid deleting any of these files unless necessary.
- /Applications/

MREditor.app

/Library/Fonts/

Yamaha EBM7 Bold.ttf Yamaha EBM7 Regular.ttf Yamaha EBM8 Expanded.ttf Yamaha EBM8 Regular.ttf Yamaha EBM10 Bold.ttf Yamaha EBM15 Condensed.ttf

/Library/Receipts/

Steinberg MR Editor.pkg

#### **Removing Steinberg MR Extension**

- 1 Select [Library] → [Application Support] → [Steinberg] → [components], then delete the files named "mr\_extension.bundle."
- 2 Open the [Applications] folder, then click the "Cubase Al4" icon while holding down the [control] key.
- **3** Select "Show Package Contents" from the context menu.

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- When using Cubase 4.5, etc., click the corresponding icon to call up the context menu.
- 4 Select [Contents] → [templates], then delete the files named "Steinberg XXX.cpr" ("xxx" indicates specific model name, etc.).

This completes the uninstallation of TOOLS for MR.

# **Connecting to an External Device**

## **Cautions when connecting to external devices**

When connecting the MR816 CSX/MR816 X to external audio devices and a computer, follow the instructions below.

#### \land WARNING

- Before you connect external devices to the MR816 CSX/MR816 X, turn off the power to all devices after setting all volume levels to minimum (0). Otherwise, electrical shock or damage to the components may occur.
- 1 Connect the instrument or microphone to MR816 CSX/MR816 X then connect the MR816 CSX/MR816 X to the computer using an IEEE1394 cable.
- 2 Start the computer.

3 Turn on the power to all the devices in the following order: connected instruments and microphones → MR816 CSX/MR816 X → monitor speakers.

When you turn off the power, first turn down the volume of each audio device, then turn off in the reverse order: monitor speakers  $\rightarrow$  MR816 CSX/MR816 X  $\rightarrow$  instruments and microphones).

## Connecting a single MR816 CSX/MR816 X to a computer (DAW)

The MR816 CSX/MR816 X has a comprehensive set of I/O terminals allowing you to connect digital devices such as a master recorder and mic preamp (having digital input/output) as well as analog devices such as microphone, guitar and bass.

### A WARNING

• Make sure to set all volume levels to minimum (0) before disconnecting the external device.



#### NOTE

The MR816 CSX/MR816 X can handle up to 16 channels of audio signal (Analog 8 channels, Digital 8 channels). Regarding the digital input/output channels, you can select which format is used: S/PDIF (coaxial/optical) or ADAT or both according to the connected audio devices. You can set this from the control panel in Cubase or Yamaha Steinberg FW Driver, and the setup screen of MR Editor. Please refer to the Operation Manual for more details.

# Using the MR816 CSX/MR816 X without a computer

The settings of the internal mixer and system edited on the MR Editor can be stored to the MR816 CSX/MR816 X by storing the settings as a Scene and recalling a Scene on the MR Editor on the computer. This means that the last settings stored or recalled on MR Editor can be used even if the MR816 CSX/MR816 X is disconnected from the computer. Accordingly, you can use the MR816 CSX/MR816 X as a mixer or D/A converter or A/D converter without a computer after the necessary settings on the MR Editor or Cubase are completed.

### A WARNING

• Make sure to set all volume levels to minimum (0) before disconnecting the external device.



Using the MR816 CSX/MR816 X as a





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 Up to three MR816 CSX/MR816 Xs (up to two when the Sample Rate is set to 88.2kHZ or 96kHz) can be used simultaneously by connecting them in daisy-chain fashion to a computer via IEEE1394 cables. For details, refer to the Operation Manual (PDF file) included in the accessory CD-ROM.

# **Try Recording**

Once you've successfully installed the device (following the instructions on page 12), you can quickly and easily record your musical performances through simple operations on the DAW software. Here, you'll connect a microphone to the MIC/ LINE/HI-Z jack then record your vocal performance to a mono track in Cubase.

#### **IMPORTANT!**

 You must have a version of Cubase or Cubase AI later than 4.5 in order to use the Link function. For information about Cubase versions that are compatible with the Link function, check the web site below. http://service.steinberg.de/goto.nsf/show/supportupdates\_mr816\_gb

#### 

- For more information on recording using the MR816 CSX/MR816 X and Cubase as well as details about the buttons and knobs of the MR816 CSX/MR816 X, refer to the Operation Manual (PDF file).
- For details about Cubase, refer to the Operation Manual of Cubase.
- 1 Connect a computer to the MR816 CSX/MR816 X using an IEEE1394 cable, then start the computer.
- 2 Turn on the power of the MR816 CSX/MR816 X. Wait until the Word Clock Source lamps and Sample Rate lamps of the MR816 CSX/MR816 X flash in order then stop.
- **3** After the lamp flashing is completed, launch Cubase.

If the Steinberg MR Extension dialog box is displayed while Cubase is starting, click [OK].



4 Select [Device Setup] from the [Device] menu to open the Device Setup window. Select [VST Audio System] in the [Device] field, and check that "Yamaha Steinberg FW ASIO" or "Yamaha Steinberg FW" has been selected in "ASIO driver" field.

After you have verified this, click [OK] to close the dialog box. Now the MR816 CSX/MR816 X can be used on Cubase.

Confirm that "Yamaha Steinberg FW ASIO"/ "Yamaha Steinberg FW" are selected.

1

🔆 Device Setup	
IN     IN	VST Audio Syster Yumiha Stanter FWASIO Packase Driver When Application is in Background Input Latency: 2.698 ms Output Latency: 5.374 ms Sample Rate: 441000 Hz

**5** Select [New Project] from the [File] menu.

The new project dialog window will open and the project templates for the MR816 CSX/MR816 X will be displayed. Selecting one of these project templates will create a project in which the input/output routing of audio tracks has already been set. Here, select "Steinberg MR816CSX multi channel recording" or "Steinberg MR816X multi channel recording."



- 6 Select the template, then click [OK].
- 7 When the directory selection dialog appears, select the destination, then click [OK]. Selecting "Steinberg MR816CSX multi channel recording" or "Steinberg MR816X multi channel recording" will create audio tracks 1 – 8 on Cubase. To the audio input/output routing for each track, the input channel (input jack) of the MR816 CSX/ MR816 X will be assigned then the corresponding [QUICK CONNECT] lamps will light.

4

Flashes dimly in red.



Turn the knob to adjust the gain.

- **11** While playing the instrument or singing into the microphone, gradually adjust the volume of the master output and headphones.
- **12** Click the Record button in the Transport panel to start recording.



When you have finished recording, click the Stop button. If necessary, return to the beginning of the project, then press the Play button to listen to the recording.

#### Likewise, record your musical performance to the different track.

#### **Cubase Link function**

By installing the TOOLS for MR, you can use various functions linked between the MR816 CSX/MR816 X and Cubase 4.5 and Cubase AI 4.5, etc.. For more information on the Cubase Link functions, please refer to the Operation Manual (PDF file) or visit the following URL:

http://service.steinberg.de/goto.nsf/show/ supportupdates\_mr816\_gb

#### Restoring the Factory-programmed Settings (Factorv Set)

You can reset all the settings of the MR816 CSX/ MR816 X to the initial factory-programmed one by turning the power on (pressing the [STANDBY/ON] switch to the ON position) while holding the multi function encoder knob and [PAD] button. While the operation is being performed, all the lamps of the MR816 CSX/ MR816 X will flash. When the flashing stops, the operation is completed and the MR816 CSX/MR816 X starts normally with the factory settings.

### **<u>CAUTION</u>**

· Never attempt to turn off the power while factory settings are being written to internal memory. Turning the power off in this state results in loss of all user data and may cause the system to freeze (due to corruption of data in the internal memory). This means that MR816 CSX/MR816 X may not be able to operate properly, even when turning the power on next time.



Turn phantom	Turn phantom power on/off					[+48	] button	
	о экслугах О	Ö 3		5	6 6	Q 7	B B	

Press the [QUICK CONNECT] button 1 while holding down the [+48V] button. The lamps of the [+48V] button and [QUICK CONNECT] button 1 will light, indicating that the phantom power of the MIC/ LINE/HI-Z jack 1 is turned on.

9 If you want to change the recording track for the MIC/LINE/HI-Z jack already set via the selected template, select the mono audio track to be record in the project window on Cubase, then click the [QUICK CONNECT] 1 button of the MR816 CSX/MR816 X.

The lamp of the [QUICK CONNECT] button 1 flashes for a while then the input channel corresponding to the MIC/LINE/HI-Z jack is assigned to the newly selected audio track. Turn on the Record Enable button and Monitoring button of Cubase so that you can monitor the sound being recorded.

Select the mono audio track



Click the [QUICK CONNECT] button

#### 10 Turn the gain knob 1 to adjust the input sensitivity of the MIC/LINE/HI-Z 1 jack.

You can confirm the input signal level by checking the [SIG/PEAK] lamp. Adjust the input signal level by turning the knob so that the [SIG/PEAK] lamp flashes dimly in red. The input signal level for each status of the lamp is as follows: Please note that the following numeric value is a value when the clipping point is assumed to be 0dB.

When the lamp is off: The input signal level is less than -40 dB When the lamp lights in green: The input signal level is -40dB to -3dB. When the lamp lights in red: The input signal level is -3dB or more.

# Troubleshooting

#### No sound is heard, or the sound is too faint. Settings on the MR816 CSX/MR816 X and connections

- The connection cable from the external device may be broken.
- Make sure that a signal from an external device or the DAW is being sent to the MR816 CSX/MR816 X's input.
- Make sure to set the volume of the connected device to appropriate levels.
- · Make sure to set the gain to an appropriate level.
- Make sure to set the [+48V] button (phantom power) to on when using a condenser microphones.
- If you are connecting an electric guitar, make sure that it is connected to an input jack that supports HI-Z, and that the [HI-Z] switch is turned on.
- Make sure that the INSERT I/O jacks are connected properly.
- · Make sure to turn off the mute for each channel.
- Make sure to raise each input channel fader to an appropriate level.
- Make sure to set the volume for the headphones and master volume applied to the output jacks.
- Make sure that the speakers or headphones are connected correctly.
- Make sure that the power to your amplifier and other external devices is turned on.
- Make sure that the volume between monitor speakers is well-balanced.
- Make sure the word clock setting is correct for both the MR816 CSX/MR816 X and the external device(s).

#### Connection with a computer

 Confirm whether or not the lamps of the Word Clock Source and Sample Rate flash in order. Refer to "Word Clock Source lamps and Sample Rate lamps flash in order."

#### Settings on a computer

- Make sure to set the volume settings within your application to appropriate levels.
- Confirm whether or not the settings in Yamaha Steinberg FW Driver are appropriate. For details, refer to "Audio and MIDI signals fail to transfer between computer and the MR816 CSX/MR816 X."
- (For Windows Vista) If no sound is produced from the MR816 CSX/MR816 X by way of the WDM Audio driver after you have changed the sample rate of the MR816 CSX/MR816 X, follow the steps below.
   Select [Start] → [Control Panel] → [Sound] → Playback tab → Select "Line Out Yamaha Steinberg FW WDM Audio" → [Properties] → Advanced tab in the Line Out Properties window → "Restore Defaults"

# Word Clock Source lamps and Sample Rate lamps flash in order.

#### Settings on the MR816 CSX/MR816 X and connections

- When the lamps flash, the MR816 CSX/MR816 X may not be recognized by the connected computer. Turn off then on of the power of the corresponding MR816 CSX/ MR816 X, or disconnect an IEEE1394 cable from the MR816 CSX/MR816 X then connect again.
- When multiple MR816 CSX/MR816 Xs (or devices compatible with the Yamaha Steinberg FW Driver) are daisy-chain connected, remember that up to three devices can be connected if the Sample Rate is set to 44.1kHz/48kHz and up to two devices can be connected if the Sample Rate is set to 88.2kHz/96kHz. If more devices than this limit are connected, remove unnecessary device(s) from the daisychain connection.
- Confirm whether or not an audio device which is not compatible with the Yamaha Steinberg FW Driver has been connected. If so, remove the corresponding device from the daisy-chain connection.
- (For Windows) Confirm whether or not the Yamaha n Driver, Yamaha AI Driver or mLAN Driver/mLAN Tools is installed to the computer. If so, disable these drivers, turn the power to the corresponding device off then on again or disconnect the corresponding device from the computer then connect again.
- The device name cannot be recognized from the DAW software.
- Audio and MIDI signals fail to transfer between computer and the MR816 CSX/ MR816 X.

#### Connection with a computer

- Confirm the status of the Word Clock Source lamps and Sample Rate lamps. If they flash in order, refer to "Word Clock Source lamps and Sample Rate lamps flash in order."
- Make sure that the IEEE1394 cable is connected properly, and that the power to the MR816 CSX/MR816 X has been turned on. Disconnect the IEEE1394 cable once, then insert it again.
- There may be a loop connection. Check the IEEE1394 cable to make sure that none of the devices are connected in a loop.

Example of loop connection



 If any IEEE1394 devices which are not compatible with Yamaha Steinberg FW Driver are connected directly to a computer, disconnect them from the computer and make sure to connect only a device which is compatible with Yamaha Steinberg FW Driver. • There may be multiple IEEE1394 interfaces installed on the computer and each of the multiple IEEE1394 devices may be connected to different interfaces. When using multiple devices compatible with the Yamaha Steinberg FW Driver and connecting them to the computer peer-to-peer individually (i.e., star-connection), make sure to connect them all to the jacks of a single interface.

#### Settings on a computer

- · Confirm whether or not "TOOS for MR" has been installed correctly.
- (For Windows XP) "Add New Hardware Wizard" may not be completed correctly. If you have canceled it, restart the computer so that "Add New Hardware Wizard" appears.
- · Restart the computer.
- If the new IEEE1394 interface (PC card, etc.) is connected to the computer (with the power turned on), restart the computer. The IEEE1394 device compatible with the Yamaha Steinberg FW Driver will be recognized by the computer after restarting.

# Cannot use other connected IEEE1394 devices correctly.

• Disconnect the IEEE1394 device compatible with the Yamaha Steinberg FW Driver from the computer.

#### Cannot find project templates for the MR816 CSX/MR816 X.

#### Settings on a computer

- Make sure that "TOOLS for MR" has been installed properly.
- If you install Cubase after you install "TOOLS for MR," the project template files will be installed in the following location. Copy these files to the location where Cubase has been installed.

#### Windows:

C:/Program Files/Steinberg/Cubase 4/templates C:/Program Files/Steinberg/Cubase AI 4/templates

#### Macintosh:

/ Application/Cubase 4.app/Contents/templates/ / Application/Cubase AI 4.app/Contents/templates/

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License Agreement for Cubase AI 4

11.3. Limited Warranty outside the EU: In the event that you as a first buyer of the software are located outside the EU, the following limitation of liability shall apply.

#### 11.3.1.

Steinberg ensures ("gewährleistet") to the person who acquires firsttime the license for the use of the software according to this Agreement, for the duration of ninety (90) days as of receipt of the software, that the software executes essentially the functions described in the enclosed documentation at receipt, provided that the software is employed according to the minimum requirements for the operating system and the computer hardware. Insignificant differences of the functions described in the documentation do not justify any warranty claim. Other documents and statements are insignificant in terms of the quality of the product.

#### 11.3.2.

If the software does not essentially fulfill the functions described in the documentation, your only warranty claim against Steinberg and Steinberg's only obligation consists in an exchange of the software or a refund of the selling price at the discretion of Steinberg.

#### 11.3.3.

Further warranty obligations according to the laws of your country remain unaffected. However, there exists no warranty for Trial Version Software.

#### 12. Limitation of Liability

- 12.1. The limitation of liability for you as first buyer of the software located within the EU is specified in Subsection 12.2 and the limitation of liability for you as first buyer of the software located outside the EU is specified in Subsection 12.3 of this Agreement.
- 12.2. Limitation of Liability within the EU: In the event that you as a first buyer of the software are located within the EU, the following limitation of liability shall apply.

#### 12.2.1.

Irrespective of the legal grounds Steinberg shall only be liable to compensate or replace futile expenses in accordance with the following stipulations.

#### 12.2.2.

Steinberg shall be liable for damages caused by the intentional or grossly negligent conduct of Steinberg, its legal representatives, managerial employees or any other vicarious agents and damages arising from death, bodily damage and damage to health from the assumption of a guarantee or from a procurement risk as well as Steinberg's liability for damages pursuant to the Product Liability Act (Produkthaftungsgesetz). In the case of damage caused by the grossly negligent conduct of any other vicarious agents, the liability shall be limited to those damages which are typically to be expected within the scope of an agreement such as the present one. Any further liability under this Agreement shall be excluded.

In the case of damage caused neither by intentional nor by the grossly negligent conduct of Steinberg, Steinberg shall only be liable where an obligation is violated, the fulfillment of which is of particular significance to the achievement of the contractual purpose (cardinal obligation). In this case, the restrictions of liability pursuant to the foregoing subsection 12.2.2 sentences 2 and 3 shall apply. In case of Trial Version Software, the liability for damages according to this subsection shall be excluded.

#### 12.2.4.

The liability for loss of data shall be limited to the typical cost and effort of retrieving the data which would have occurred, if the data had been stored properly and in a risk-adequate manner.

#### 12.2.5.

This limitation of liability for Steinberg shall also apply for the benefit of Steinberg's employees in the event that any claims are filed directly against them.

12.3. Limitation of Liability outside the EU: In the event that you as a first buyer of the software are located outside the EU, the following limitation of liability shall apply.

#### 12.3.1.

Except for the aforementioned rights Steinberg or Steinberg's authorized distributors assume no liability for loss, damages, claims or costs of any type, direct or indirect damages including consequential damages arising from business interruptions, injuries to persons, or lack of due care or claims of third parties, even if a representative of Steinberg was informed about the possibility of such losses, damages, costs or claims. This limitation shall apply also in the event of a fundamental breach of this Agreement.

#### 12.3.2

The total liability of Steinberg and its distributors in the context of this Agreement shall be limited to the amount which was paid for the software, if any.

#### 12.3.3.

The aforementioned restrictions shall not apply in countries where a limitation of liability is inadmissible.

#### 13 Infringement

You should inform Steinberg promptly in writing if a third party raises any claim against your use of the software. Steinberg may defend you, if you reasonably support Steinberg.

#### 14. Final Provisions

- 14.1. This Agreement constitutes the entire understanding of the subject matter between the parties. Subsidiary agreements have not been concluded.
- 14.2. Supplements and amendments of this Agreement must be made in writing; a waiver of the requirement of the written form must also be made in writing.
- 14.3. If any stipulation of this Agreement should be or become invalid, in whole or in part, this shall not affect the validity of the remaining stipulations. The invalid stipulation shall be deemed to be replaced by the parties with a valid regulation which comes as close as possible to the commercially desired purpose originally intended for the ineffective provision; the same shall apply in the case of a lacuna.
- 14.4. This Agreement shall be governed and construed by the laws of the Federal Republic of Germany and the UN Convention on the International Sale of Goods (CISG) shall not apply.
- 14.5. The exclusive place of jurisdiction with respect to all disputes based on or in connection with this Agreement shall be Hamburg. Steinberg can bring an action against you at your general place of jurisdiction.

# Appendix

# **Specifications**

#### **Electrical Characteristics**

	Internal	44.1kHz, 48kHz, 88.2kHz, 96kHz			
Sample Rate	External	44.1kHz, 48kHz, 88.2kHz, 96kHz (± 0.1% respectively)			
Total Harmonic Distortion	GAIN: Minimum	0.004% or less (1 kHz @ +18 dB, into 600 Ω)			
Frequency Response	fs = 48 kHz	20 Hz–20 kHz, +1, -3 dB @ +4 dB, into 600 Ω			
(CH IN to LINE OUT)	fs = 96 kHz	20 Hz–40 kHz, +1, -3 dB @ +4 dB, into 600 Ω			
Dynamic Range (SN ratio at the maximum level)		104 dB, DA converter (LINE OUT)			
		97 dB, AD + DA (to LINE OUT)			
		-118 dB, Equivalent input noise			
		-86 dB, Residual output noise, Output fader: Minimum			
Hum & Noise	GAIN: Maximum	-86 dB (90 dB SN), LINE OUT			
(20 Hz–20 kHz) Rs = 150 Ω	PAD: OFF	Output channel fader: Nominal, All Input channel faders: Minimum			
	GAIN: -60 dB	-53 dB (57 dB SN), LINE OUT			
	PAD: OFF	Output channel fader: Nominal, Input channel fader (one channel): Nominal			
Maximum Voltage Gain	•	84 dB, CH1 – 8 to LINE OUT			
Crosstalk @ 1 kHz	GAIN: Minimum Adjacent Input	-85 dB, CH1 – 8			

#### Input and Output Specifications

Analog Input	Tuno	Input Level			
Analog Input	Туре	Nominal Level	Maximum Level	Input Impedance	
MIC/LINE/HI-Z jack 1, MIC/LINE jack 2 and MIC/LINE IN jacks 3 – 8 (CH1 – 8)	XLR type balanced, +48 V Phantom powered	–60 dBu to +10 dBu	+24 dBu	$3.5  \text{k}\Omega$	
INSERT I/O jack 1 and 2 (INSERT IN)	TRS phone type, unbalanced	0 dBu	+14 dBu	10 kΩ	

Analog Input	Tuno	Output Level			
Analog Input	Туре	Nominal Level	Maximum Level	Input Impedance	
OUTPUT jacks 1 – 8 (Line Output)	TRS phone type, balanced	+4 dBu	+18 dBu	600 Ω	
INSERT I/O jack 1 and 2 (INSERT OUT)	TRS phone type, unbalanced	+4 dBu	+18 dBu	10 kΩ	
Headphone jacks 1 and 2	TRS phone type, unbalanced	4 mW + 4 mW	25 mW + 25 mW	8 Ω	
(Monitor 1/2)	i no phone type, unbalanceu	12 mW + 12 mW	75 mW + 75 mW	40 Ω	

#### **General Specifications**

Power Requirements	40W (PA-30)
Dimensions (H x D x W)	44 x 305 x 480 mm
Net Weight	3.2kg
Operating Free-air Temperature Range	+5 - +35
Included Accessories	AC power adaptor (PA-30 or equivalent)
	DVD-ROM (Cubase AI 4)
	CD-ROM (TOOLS for MR)
	Getting Started manual (printed booklet)
	IEEE1394 cable
	Rubber stoppers x 4

#### Functions

	Analog Input				
	MIC Preamp	Discrete Class-A MIC preamp (Inverted Darlington Circuitry)			
	[+48V] button (Phantom Power switch)	+48 V DC			
	[PAD] button	0/26 dB			
	Gain knob	44 dB variable (-60 dB to -16 dB)			
Input Channels 1 – 8	Phase	Normal/Reversed (controlled via a computer)			
	High Pass Filter	OFF/80 Hz (-12 dB/oct.) Controlled via a computer			
	[HI-Z] switch AD converter	On/off (for channel 1), Input impedance: 500 k $\Omega$			
		24 bit linear, Enhanced dual-bit delta-sigma conversion			
	[SIG/PEAK] lamp	-3dB or mode (red), -40db – -3dB (green) (when the clipping point of the signal is assumed to be 0 dB)			
	Analog Output				
Output Channels 1 – 8 Level Control DA converter	Level Control	Multi Function Encoder knob control (for all the channels 1 – 8) Software control (for each of the channels 1 – 8)			
	DA converter	24 bit linear, 128 times oversampling Advanced multi-bit delta/sigma conversion			
Headphone jacks	Level Control	Multi Function Encoder knob control			
1 and 2	Maximum Output Level	25mW (@ 8Ω)/75mW (@ 40Ω)			
IEEE1394 jack	Audio interface	16-ch input/16-ch output			

#### **European models**

Purchaser/user Information specified in EN55103-1 and EN55103-2. Inrush current: 2.0 A (MR816 CSX), 2.0 A (MR816 X) Conforms to environments: E1, E2, E3, E4 ENGLISH

Appendix

# MEMO

For details of products, please contact your nearest Steinberg representative or the authorized distributor listed below.

Pour plus de détails sur les produits, veuillez-vous adresser à Steinberg ou au distributeur le plus proche de vous figurant dans la liste suivante.

#### NORTH AMERICA

#### CANADA

#### Yamaha Canada Music Ltd.

135 Milner Avenue, Scarborough, Ontario, M1S 3R1, Canada Tel: 416-298-1311

#### U.S.A.

Steinberg North America, c/o Yamaha Corporation of America 6600 Orangethorpe Ave., Buena Park, Calif. 90620, U.S.A. Tel: 714-522-9011

#### **CENTRAL & SOUTH AMERICA**

#### **MEXICO**

Yamaha de México S.A. de C.V.

Calz. Javier Rojo Gómez #1149, Col. Guadalupe del Moral C.P. 09300, México, D.F., México Tel: 55-5804-0600

#### BRAZIL

#### Yamaha Musical do Brasil Ltda.

Rua Joaquim Floriano, 913 - 4' andar, Itaim Bibi, CEP 04534-013 Sao Paulo SP BRAZIL Tel: 011-3704-1377

#### ARGENTINA

Yamaha Music Latin America, S.A. Sucursal de Argentina Viamonte 1145 Piso2-B 1053, Buenos Aires, Argentina Tel: 1-4371-7021

#### PANAMA AND OTHER LATIN AMERICAN COUNTRIES/ **CARIBBEAN COUNTRIES**

#### Yamaha Music Latin America, S.A.

Torre Banco General, Piso 7, Urbanización Marbella, Calle 47 y Aquilino de la Guardia, Ciudad de Panamá, Panamá Tel: +507-269-5311

#### **EUROPE**

Steinberg Media Technologies GmbH Neuer Hoeltigbaum 22-32, 22143 Hamburg, Germany Tel: +49-(0)40-210 35 0

#### **AFRICA**

### Yamaha Corporation.

Asia-Pacific Music Marketing Group Nakazawa-cho 10-1, Naka-ku, Hamamatsu, Japan 430-8650 Tel: +81-53-460-2312

#### MIDDLE EAST

Yamaha Music Gulf FZE

LOB 16-513, P.O.Box 17328, Jubel Ali, Dubai, United Arab Emirates Tel: +971-4-881-5868

Die Einzelheiten zu Produkten sind bei Ihrer unten aufgeführten Niederlassung und bei Steinberg Vertragshändlern in den jeweiligen Bestimmungsländern erhältlich.

Para detalles sobre productos, contacte su tienda Steinberg más cercana o el distribuidor autorizado que se lista debajo.

#### ASIA

#### THE PEOPLE'S REPUBLIC OF CHINA

Yamaha Music & Electronics (China) Co.,Ltd.

25/F., United Plaza, 1468 Nanjing Road (West), Jingan, Shanghai, China Tel: 021-6247-2211

#### INDONESIA

PT. Yamaha Music Indonesia (Distributor) PT. Nusantik

Gedung Yamaha Music Center, Jalan Jend. Gatot Subroto Kav. 4, Jakarta 12930, Indonesia Tel: 21-520-2577

#### KOREA

#### Yamaha Music Korea Ltd.

8F, 9F, Dongsung Bldg. 158-9 Samsung-Dong, Kangnam-Gu, Seoul, Korea Tel: 080-004-0022

#### MALAYSIA

Yamaha Music Malaysia, Sdn., Bhd. Lot 8, Jalan Perbandaran, 47301 Kelana Jaya, Petaling Jaya, Selangor,

Malaysia Tel: 3-78030900

#### SINGAPORE

Yamaha Music Asia Pte., Ltd. #03-11 A-Z Building 140 Paya Lebor Road, Singapore 409015 Tel: 747-4374

#### TAIWAN

Yamaha KHS Music Co., Ltd. 3F, #6, Sec.2, Nan Jing E. Rd. Taipei. Taiwan 104, R.O.C. Tel: 02-2511-8688

#### THAILAND

Siam Music Yamaha Co., Ltd. 4, 6, 15 and 16th floor, Siam Motors Building, 891/1 Rama 1 Road, Wangmai, Pathumwan, Bangkok 10330, Thailand Tel: 02-215-2626

#### OTHER ASIAN COUNTRIES

Yamaha Corporation, Asia-Pacific Music Marketing Group Nakazawa-cho 10-1, Naka-ku, Hamamatsu, Japan 430-8650 Tel: +81-53-460-2317

**OCEANIA** 

#### AUSTRALIA

Yamaha Music Australia Pty. Ltd.

Level 1, 99 Queensbridge Street, Southbank, Victoria 3006, Australia Tel: 3-9693-5111

#### NEW ZEALAND Music Works LTD

P.O.BOX 6246 Wellesley, Auckland 4680, New Zealand Tel: 9-634-0099

#### COUNTRIES AND TRUST TERRITORIES IN PACIFIC **OCEAN**

Yamaha Corporation, Asia-Pacific Music Marketing Group Nakazawa-cho 10-1, Naka-ku, Hamamatsu, Japan 430-8650 Tel: +81-53-460-2312



Steinberg Web Site http://www.steinberg.net

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