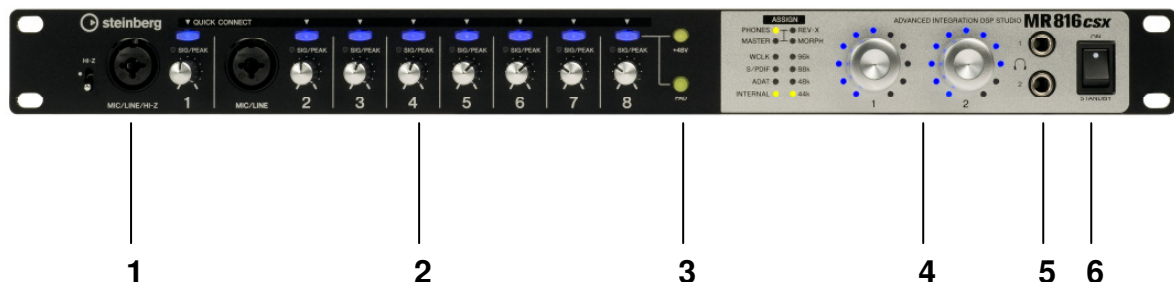


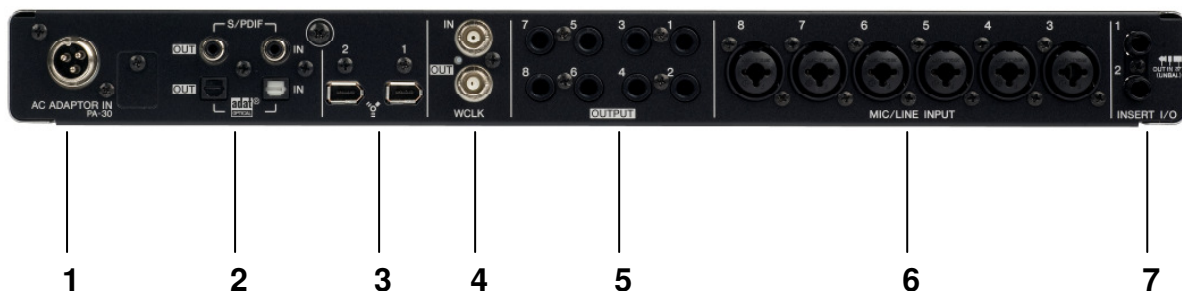
Product Facts

>> Front Panel View



1. one XLR/Jack Combo input with Hi Z switch for guitar and bass, gain control with peak indicator and Quick Connect button
2. seven input gain control with peak indicator and Quick Connect button
3. phantom power and pad switch / selectable for each channel separately
4. two multifunctional push-button rotary encoders
5. two Headphone outputs (each adjustable separately)
6. Power switch

>> Rear Panel View



1. power adaptor in
2. S/PDIF and ADAT in and out
3. two FireWire sockets
4. WordClock in and out as BNC
5. eight Analog outs as TRS
6. six input Neutrik Combo TRS and XLR
7. two insert TRS stereo

What is the difference between the MR816 CSX and MR816 X

Basically the MR816 CSX and MR816 X are the same device. The only but not unimportant difference between those two units are the eight DSP-powered channelstrips that the MR816 CSX provides. The innovative Sweet Spot Morphing Channel Strip is a unique new compression and EQ tool that runs on DSP inside the MR816 CSX.

All other features of the both units are the same: Both provide best sound quality and outstanding preamps as well as the same quantity of inputs and outputs. Also MR816 CSX and MR816 X offer one REV-X reverb, a complex reverb algorithm developed by Yamaha which provides a high-density, richly reverberant sound quality, with smooth attenuation, spread and depth that work together to enhance the original sound.

Comparison of MR816 CSX and MR816 X

Feature	Steinberg MR816 CSX	Steinberg MR816 X
I/O		
Hardware Gain Control per channel	Yes	Yes
Mic Preamps	8 Discrete Class A	8 Discrete Class A
Line Inputs	8 (Combo)	8 (Combo)
Headphone Outputs	2	2
Inserts	2	2
Hi-Z/Instr.Input	1	1
Analog Outputs	8 TRS jack	8 TRS jack
ADAT I/O	8 channel	8 channel
S/PDIF I/O	Yes	Yes
Word Clock I/O	Yes	Yes
SMPTE I/O	No	No
Midi I/O	No	No
DSP		
Onboard DSP for one REV-X	Yes	Yes
Onboard DSP for eight Sweet Spot Morphing Channel Strips	Yes	No
No latency monitoring with effects	Yes	Yes
Onboard DSP FX	Yes	Yes
Onboard DSP Plug-ins in Cubase/DAW mix	Yes	Yes
DAW Integration		
DAW Mixer integration	Yes	Yes
Setup /Control from within DAW	Yes	Yes
Automatic I/O Setup in DAW (Plug&Play)	Yes	Yes
Quick Connect: Instant rerouting from DAW	Yes	Yes
Other		
Maximum Resolution	24/96	24/96
multifunctional rotary encoders	2	2
Stackable	3 units	3 units
Price Euro	1199.00 €	799.00 €

Competitive Landscape

Company		M-Audio	Focusrite	Presonus	Motu	Steinberg	Digidesign	TC Electronic	RME	Metric Halo	Apogee
Feature	Model	Profire 2626	Saffire Pro 26 I/O	Fire Studio	896 MKIII	MR816 CSX	003 Rack	Studio Konnekt 48	Fireface 800	MOBILE I/O 2882 expanded	Ensemble
I/O											
Hardware Gain Control per channel		Yes	Yes	Yes	Yes	Yes	Yes	No	5 out of 8	No	No
Mic Preamps		8	8	8 class A	8	8 Discrete Class A	4	4	4	4	4
Line inputs		8 (Combo)	8	8	8 (Combo)	8 (Combo)	4	12	8	4	8
Headphone outputs		2	2	1	2	2	2	2	1	1	2
Hardware inserts		No	No	2	No	2	No	No	No	No	2
Hi-Z/ Instr.Input		2	2	2	No	1	No	No	1	No	4
Analog outputs		8 TRS jack	8 TRS jack	10 TRS jack	8 XLR	8 TRS jack	8 TRS jack	8 TRS jack & 2 XLR	8	8 TRS jack	8
ADAT I/O		16 channel	16 channel	16 channel	16 channel	8 channel	8 channel	16 channel	16 channel	8 channel	8 channel
S/PDIF I/O		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WordClock I/O		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DSP											
No latency monitoring with FX		No	No	No	Yes	Yes	No	Yes	No	No	No
Onboard DSP FX		No	No	No	Yes	Yes	No	Yes	No	Optional	No
Onboard DSP Plugins in Cubase/DAW mix		No	No	No	No	Yes	No	Yes	No	No	No
DAW Integration											
Cubase Mixer integration		No	No	No	No	Yes	No	No	No	No	No
Setup/Control from within Cubase		No	No	No	No	Yes	No	No	No	No	No
Automatic I/O Setup in Cubase (PLug&Play)		No	No	No	No	Yes	No	No	No	No	No
Quick Connect:Instant rerouting from DAW		No	No	No	No	Yes	No	No	No	No	No
Other											
Maximum Resolution		24/192	24/192	24/96	24/192	24/96	24/96	24/192	24/192	24/96	24/192
multifunctional rotary encoders		1	0	0	0	2	0	1	0	0	0
Stackable		---	3 units	---	---	3 units	---	---	3 units	3 units	---
SRP Price Euro		669	772.00	779.00	1149.00	1199.00	1231.00	1368.00	1486.00	1529.00	1747.00

All data are taken from the manufacturer's websites.

Key Features

First of all: What's amazing about this product?

The stand-out hallmarks of the MR816 CSX and the MR816 X? Outstanding sound characteristics, flexible I/O and stacking options, VST3 DSP accessible in Cubase during mixing and above all a hyper-intelligent architecture that mirrors the Cubase environment in hardware. It's this groundbreaking and utterly unique combination of first-class physical I/O, onboard DSP and tightest possible software integration that offer not only myriad workflow advantages but also an excellent price performance ratio.

MR816 CSX is one of the components of a unique system of hardware and software components that rewrite paradigms in music production. Combined with Cubase and the CC121 Advanced Integration USB Controller, MR816 CSX forms part of a system that's so much more than the sum of its parts.

True Integrated Monitoring™

Offering real-time, independent and most importantly no-latency mixes with FX for several performers is an engineering challenge in itself, and there are only one or two FireWire I/O interfaces on the market that can achieve this. Even these units are functionally isolated from the DAW software forcing the user to use additional mixing applications, in turn hampering workflow and splintering what should be a truly integrated production system.

The answer? Cubase and MR816 CSX. A solution defined by its ease-of-use, flexibility and pure functional elegance. Running with Cubase, MR816 CSX removes any need for additional mixing software between DAW and I/O – all aspects of I/O handling, DSP management and independent performer mixes are handled directly from within Cubase itself. With Cubase 4, these performer mixes are realized using the Studio Sends in the Control Room* – a unique system that is completely integrated into the Cubase 4 mixer.

With the unique True Integrated Monitoring™ technology, Cubase manages all audio streams with perfect sync. No-latency mixes for performers with DSP FX are managed side-by-side with mixes played back through the Cubase audio engine that combine hard disk audio data and live streams being recorded at the same time – all within Cubase. Combined with other unique features, True Integrated Monitoring™ allows a highly efficient workflow that boosts productivity to new levels. The technological know-how required for this level of integration results directly from the ongoing cooperation between Steinberg software engineers and the hardware experts at Yamaha.



Complete Cubase user interface integration throughout*

MR816 CSX and MR816 X both feature direct integration into Cubase through unique windows and views within Cubase that appear only when they are connected. These interface elements allow full control of the hardware's functionality from within Cubase itself. This includes not only the Sweet Spot Morphing Channel Strip and REV-X reverb DSP effects, but almost all hardware functionality in the MR816 CSX/MR816 X including performer mixes and their levels, phantom power selection, -26dB pad, High Pass filters and phase inversion switch per input channel.

The benefits are an extremely fast and intuitive workflow that handles software and hardware effectively as one system! Attention is focused on Cubase at all times without creative flow being broken off by having to open or edit in other applications. And because the features are all embedded in the Cubase graphic environment, they're very intuitive to use for anyone who is already used to Cubase – no need to adjust to another graphic environment to adjust levels for performer mix, for example. This is only one of the many Advanced Integration features between MR816 CSX/MR816 X and Cubase, which effectively meld hardware and software together into perhaps the most sophisticated production system available today.

* only with Cubase 4.5.1

Flexible I/O

MR816 CSX and MR816 X provide all the audio I/O connectivity needed for any audio recording situation:

- Eight 'D-Pre' XLR/TRS combo connectors with Class A discrete preamps with +48v and -26dB pad switch per channel
- Eight analog balanced TRS outputs for separate studio performer mixes and a variety of different monitoring setups
- One Hi-Z input for electric guitar or bass
- Optical input and output port for 8 ADAT digital audio streams or S/PDIF optical
- S/PDIF coaxial input and output
- WordClock port for sync
- Two independent headphone outputs with individual level control from the front panel
- Two inserts for integration of additional hardware FX

D-Pre Mic Preamps

Both MR816 CSX and MR816 X feature the latest generation of Yamaha microphone preamps: The 'D-Pre'.

Meticulously engineered to the highest standards, these discrete Class A analog mic preamps feature combination XLR and TRS analog inputs for connection of 8 ¼" jack plugs or standard XLR connectors, supporting both balanced and unbalanced signals. Each D-Pre is fitted with a -26dB Pad selector as well as true 48 volt phantom power per channel. An additional phase inversion capability and High Pass filter are available directly from the Cubase mixer or MR Editor software via remote control.

What sets these preamps apart? The audio quality of the eight D-Pres can only be described as stunning. Each utilizes an advanced Inverted Darlington circuit design and electronics components specifically designed for the MR816 CSX and MR816 X. The result is a sumptuously smooth and richly detailed sound normally only attained by preamps costing many times more; the outstanding sound of these mic pres obviate the need for all but the rarest vintage preamps.

Just as important as the preamps are, of course, the converters behind them. MR816 CSX and MR816 X include first-rate A/D and D/A converters that offer absolutely crystal-clear sound that portrays the sound with astonishing precision and clarity.

Each D-Pre is paired with a useful signal/peak lamp that lights up green when a signal between -40dB and -3dB is connected, warning with a red light if levels reach -3dB. Unlike many other preamps, the red warning light alerts the engineer not just when it's already "too late" and a signal has already clipped the converter behind it, but indicates that gain levels should be checked and monitored closely.

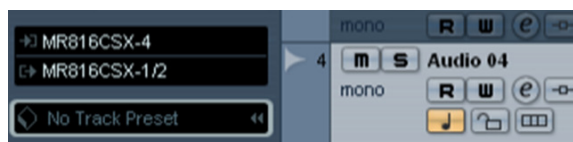
Quick Connect: next-generation of plug and play and instant setup

As soon as the drivers are installed, Cubase automatically recognizes when the MR816 CSX or MR816 X is connected, featuring complete plug and play and very fast setup.

MR816 CSX or MR816 X both offer another stunningly unique feature: instant routing and rerouting of inputs to Cubase channels on the fly from the front panel of the I/O with the push of a single button! Just select a Cubase channel, and press a channel button on the I/O front panel, and that channel is instantly routed to the selected track. To help quickly identify which input is routed to the selected Cubase track, the front panel light for the channel flashes, showing which input is currently routed to that track.

Setting up a project with MR816 CSX or MR816 X is extremely easy and intuitive. Templates offer pre-made setups with routing and I/O configurations already set up, automatically creating and assigning inputs and outputs for connected devices. Additionally, if no input busses have yet been created within the project, selecting a Cubase track and pushing the button of the desired channel on the front panel not only routes that input to that track, but automatically creates either a mono or stereo bus as desired.

The bottom line? No need to manually create busses or reassign I/Os in the VST Connections window, with obvious benefits for project workflow. No other combination of FireWire hardware and software offers such flexible and intuitive I/O handling within a software DAW. As one of the unique Advanced Integration features, Quick Connect helps MR816 CSX/MR816 X integrate completely into Cubase to form a next-generation software and hardware system that discards traditional boundaries between these two previously separate worlds.



DSP Power for Cubase

On top of its excellent I/O capability, the MR816 CSX features an onboard DSP chip that runs up to 8 instances of the highly acclaimed Sweet Spot Morphing Channel Strip plug-in, featuring the latest compression and EQ technology. Both MR816 CSX and MR816 X feature the renowned REV-X reverb, which is also featured on many top Yamaha hardware mixing consoles.

Each independent monitor mix can utilize the DSP capability for an outstanding sound that every performer will feel extremely comfortable performing to. Optionally, the FX can be included in the signal recorded to the input track. The signal can, of course, also be recorded dry with no FX or bypassed completely.

The Advanced Integration of MR816 CSX and MR816 X in Cubase goes even further. The full DSP capability is also available as VST3 plug-ins in Cubase when mixing! With MR816 CSX, up to 8 instances of the Sweet Spot Morphing Channel Strip plug-in can run as an insert plug-in in Cubase, as well as one instance of REV-X on both MR816 CSX and MR816 X. This adds additional first-class FX capability that is available even when the computer's CPU is running under a high load.

For Cubase owners, MR816 CSX combines not only outstanding I/O capability, extremely easy handling and no-latency monitor mixing, but also a powerful DSP capability – a peerless combination with an almost unbeatable price/performance ratio.

Sweet Spot Morphing Channel Strip with Compressor and EQ*

The innovative Sweet Spot Morphing Channel Strip is a unique new compression and EQ tool that runs on DSP inside the MR816 CSX. While the first-class algorithms developed by Yamaha deliver sonically excellent equalization and compression, this unique new plug-in has also been designed for convenience, accessibility and simplicity of operation.

The Sweet Spot Morphing Channel Strip consists of a sidechain-enabled compressor and a 3-band parametric equalizer, which can be applied to up to 8 mono input channels or 4 stereo input channels on the MR816 CSX or on Cubase tracks during mixing. Both EQ and compressor were developed to attain a highly “musical” sound that can not only give audio signals new sparkle and punch or help (re)define their sonic personality, but also work adaptively on audio signals to blend them satisfyingly into a mix.



The first-class sonic qualities of the Sweet Spot Morphing Channel Strip are not the only aspect that set it apart. It also features a unique new way to set up a great sound for just about any audio signal in next to no time: the Morph knob. Simply turning this knob smoothly morphs through both EQ and compression settings in combination, allowing the user to ‘dial in’ the ideal sound very quickly just by using one single control element.

Using the Morph knob is especially useful for recording situations where quick setup for EQ and compression is paramount. Newcomers to recording will also find this system very helpful, as presets for many common recording situations are included. The presets were designed by veteran audio engineers using their many years of recording experience, and cover ideal EQ and compression settings for instruments, drums, vocals and many more situations. Each of the parameters can, of course, be edited singly from the interface, and individual setups stored as presets for later recall.

As an additional workflow enhancement, MR816 CSX also features built-in hardware control for the DSP effects, because both the Morph and Drive knobs can be remote controlled from the front panel of the MR816 CSX! The two multifunctional knobs can be assigned to these two settings simply by setting the MR816 CSX to ‘MORPH’ mode on its front panel. This offers very intuitive hardware control over these two parameters directly from the MR816 CSX.

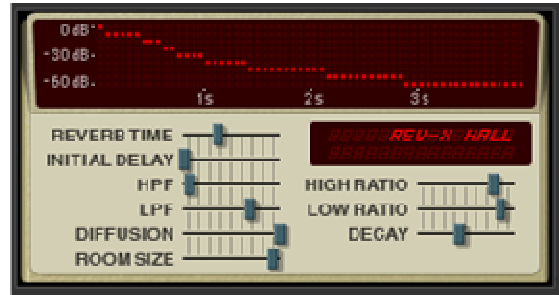
* only on the MR816CSX

REV-X Reverb

The REV-X built into the MR816 CSX/MR816 X is a complex reverb algorithm developed by Yamaha. It provides a high-density, richly reverberant sound quality, with smooth attenuation, spread and depth that work together to enhance the original sound.

Yamaha's REV-X digital reverb algorithm is renowned for its high resolution and extraordinarily natural sound. The MR816 CSX/MR816 X features three types of reverb effects: Hall, Room and Plate simulations with reverb time and level control.

Reverb Time and Level can be controlled either through Cubase or from the front panel of the MR816 CSX. This superlative reverb processor also featured on Yamaha's premiere digital consoles is ideal for monitoring mixes for performers, but also adds a further excellent reverb to your available VST plug-ins on mixdown.



Extendable system

Developed using advanced technologies to offer seamless scalability, this mixing and recording system offers many options to increase the number of available inputs, preamps, outputs and DSP capability – all on the same FireWire port. Up to three MR816 CSX/MR816 Xs can be used simultaneously by connecting them in daisy-chain fashion to a computer via IEEE1394 cables. The number of available channels for input and output across the system can be easily expanded simply by adding up to two more MR816 CSX or MR816 X. MR816 CSX and MR816 X support up to 48 input and output channels – using only one FireWire port on the computer. All connected I/Os are recognized by Cubase simultaneously, with no additional setup required. Cubase also automatically assigns the correct I/O port configuration for one, two or three units, depending on how many are connected. Even when multiple MR816CSX/ MR816 Xs are connected, parameters such as those for digital audio input/output, Sweet Spot Morphing Channel Strip and REV-X are available for each device individually.

The available DSP power of the entire system is also scalable with the addition of more units, as each DSP is available to Cubase in the form of VST3 plug-ins during mixdown. A system composed of three MR816 CSX offers not only 48 inputs and outputs, but also 24 instances of the unique Sweet Spot Morphing Channel Strip plug-in and three instances of high-quality REV-X reverb.

Because of the highly flexible driver architecture, both MR816 CSX and MR816 X models are fully compatible with each other and run daisy-chained together on the same system, allowing full flexibility in creating a customized system that offers the needed number of inputs, outputs and DSP capability.

Cubase AI4 included

Cubase AI4 is a special, compact version of Steinberg's famed music production system that is included as part of selected Yamaha audio hardware. Based on the same technology as Cubase 4, Cubase AI4 offers powerful yet easy-to-use software tools for audio recording, editing, MIDI sequencing and mixing – exclusive to customers of selected Yamaha hardware.

The unique integrative features meld Yamaha hardware and Steinberg software to one completely integrated production system. This includes Studio Connections "Recall" technology that saves and recalls all studio settings with a single mouse click within Cubase. But Cubase AI4 also features the new AI technology which takes the integration to a new level. The full Plug&Play support means that settings for connected hardware such as driver selection, input and output routing setup as well as remote configuration are all completely automated.

Cubase AI Key Features:

- Cubase 4 audio engine
- 48 audio tracks and up to 64 MIDI tracks
- HALion One software sample player with selected Motif sounds (GM Content)
- Plug&Play VST/MIDI setup with Yamaha products such as Motif XS Music Production Synthesizer and n-series Digital Mixing Studio
- Studio Connections "Recall" as well as special product-specific functions for perfect software-hardware integration
- 25 VST effects, including 15 VST3 plug-ins
- 20 MIDI styles and 480 drum loops included

Mac OS X and Windows XP/Vista

As a cross platform company, Steinberg supports both Macs and PCs. Both MR816 CSX and MR816 X and support Mac OS X Leopard, Intel-powered Macs, Windows XP and Windows Vista.

Connectivity

- eight input Channels with XLR / TRS combo connectors, HI-Z instrument input for electric guitar or bass
- eight output Channel with TRS connectors
- one ADAT digital I/O for digital audio streams or S/PDIF
- two inserts for hardware FX
- two independent headphone outputs
- S/PDIF coaxial input and output
- WordClock I/O for professional sync

Key Features & Benefits

Feature	What it does	Benefit
True Integrated Monitoring™	No latency, DSP-powered FX and dynamic on your monitor mix	Instant sound experience on monitor mix. No delayed sound on phones.
Complete Cubase user interface integration	Direct access from Cubase. No additional software mixing application or external windows required.	Fast working, all in Cubase
8 discrete Class A D-Pre Mic Preamps	Amplifies your condenser mic and all other mic's or instruments to optimum working level	Marvellous sound, no need of additional external Mic Preamps
Quick Connect	Instant routing of inputs to Cubase channels with the push of a button	Fast and easy setup and routing of inputs to desired Cubase channels
DSP Power	Provides DSP Power for 8 Sweet Morphing Channel Strips with Compressor, EQ and REV-X reverb	Saves you performance power and gives tremendous DSP Effects to your project
DSP during monitoring	Provides DSP Power just for your monitor mix without recording to tracks	Good sound for the recorded artist so he feels comfortable
Instant Setup	Cubase automatically detects the MR and comes with ready made templates	Fast and easy project start, no long setup sessions needed
Full flexible connectivity	The MR provides ADAT, S/PDIF and Coaxial I/O as well as WordClock	Different other hardware components can be integrated easily
Extendable system	Combine up to three MR units, providing up to 24 analog inputs and outputs (each DSP-powered)	It's possible to record complex Band setups which need a big amount of inputs
Includes Cubase A14	Fully featured starter version of the worlds most used Music production software platform!	start hassle free recording and creating music immediately without need o buying an extra DAW software
Apple & PC compatible	Supports Apple OS X 10.4 / 10.5 and Windows XP and Vista	Choose your preferred computer set up, you don't need to change

Availability of features in different Cubase versions

AI Function	Nuendo 4.2.1	Cubase 4.5.1	Cubase Studio 4.5.1	Cubase Essential 4.5.1	Cubase AI 4.5.1	Cubase LE 4.1.2
Advanced PLUG & PLAY (MR816 CSX/X, CC121, Motif XS)	yes	yes	yes	yes	yes	no
True Integrated Monitoring™ - 1:1 mixer mapping (MR816 CSX/X)	yes	yes	yes	yes	yes	no
True Integrated Monitoring™ - multiple studio mixes (MR816 CSX/X)	yes	yes	no	no	no	no
Quick Connect (MR816 CSX/X)	yes	yes	yes	yes	yes	no
Monitor Mixer Integration (MR816 CSX/X)	yes	yes	yes	yes	yes	no
HW Setup Integration (MR816 CSX/X)	yes	yes	yes	yes	yes	no
Plug-in Integration of DSP Effects (MR816 CSX)	yes	yes	yes	yes	yes	no
VST Connection Presets (MR816,CSX)	yes	yes	yes	yes	yes	yes
Control Room control (CC121)	yes	yes	no	no	no	no
AI knob control (CC121)	yes	yes	yes	yes	yes	yes
Plug-in integration of voice editor (Motif XS)	yes	yes	yes	yes	yes	no
External VST3 support – MIDI + Audio (Motif XS)	yes	yes	yes	yes	yes	no
VST Instrument Preset Browser access (KX)	yes	yes	yes	yes	yes	no
Track Quick Controls support (KX)	yes	yes	yes	no	no	no

Technical Specifications

Electrical Characteristics

Sample Rate	Internal	44.1kHz, 48kHz, 88.2kHz, 96kHz
	External	44.1kHz, 48kHz, 88.2kHz, 96kHz ($\pm 0.1\%$)
Total Harmonic Distortion	GAIN: Minimum	0.004% or less (1 kHz @ +18 dB, into 600 Ω)
Frequency Response (CH IN to LINE OUT)	fs = 48 kHz	20 Hz–20 kHz, +1, -3 dB @ +4 dB, into 600 Ω
	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)
Hum & Noise (20 Hz–20 kHz) Rs = 150 Ω		-118 dB, Equivalent Input noise
		-86 dB, Residual output noise, output fader: Minimum
	GAIN: Maximum PAD: OFF	-86 dB (90 dB SN), LINE OUT Output channel fader: Nominal, All Input channel faders: Minimum
	GAIN: -60 dB PAD: OFF	-53 dB (57 dB SN), LINE OUT 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	-85 dB, CH1 – 8
	Adjacent Input	

Input and Output Specifications

Analog Input	Type	Input Level		
		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 k Ω
INSERT I/O jack 1 and 2 (INSERT IN)	TRS phone type, unbalanced	0 dBu	+14 dBu	10 k Ω

Analog Output	Type	Output Level		
		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 k Ω
Headphone jacks 1 and 2 (Monitor 1/2)	TRS phone type, unbalanced	4 mW + 4 mW	25 mW + 25 mW	8 Ω
		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

Input Channels 1 – 8	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)	
Phase	Normal/Reversed (controlled via a computer)	
High Pass Filter	OFF/80 Hz (-12 dB/oct.) Controlled via a computer	
[HI-Z] switch	On/off (for channel 1), Input impedance: 500 k Ω	
AD converter	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)	
Output Channels 1 – 8	Analog Output	
	Level Control	Multi Function Encoder knob control (for all the channels 1 – 8) Software control (for each of the channels 1 – 8)
	DA converter	4 bit linear, 128 times oversampling Advanced multi-bit delta/sigma conversion
Headphone jacks 1 and 2	Level Control	Multi Function Encoder knob control
	Maximum Output Level	25mW (@ 8 Ω)/75mW (@ 40 Ω)
IEEE1394 jack	Audio interface	16-ch input/16-ch output