

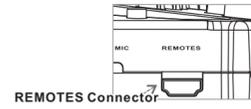
Rock House noiseless rehearsal studio

NO.	Type	Description	Parameter
01	Sb	Slap Back	A mono delay with double effect Delay time 10-100ms
02	Pp	Ping Pong	A full stereo delay Delay time 10-100ms
03	br	Big Ambiance	A big room with enough reflections Reverb time 2.1s
04	Er	Early Reflections	A delay with a series of early reflections Reverb time 80-100ms
05	Ec	Echo	An attenuative repeat of the original signals Delay time 225ms
06	Gt	Gate	A gate reverb effect resulting from cutting off the Hall reverb Reverb time 0.8-1.2s
07	rd	Med	Reverb with short early reflections Reverb time 1.8s
08	HL	Hall	2.8 seconds of reverb with enough late reflections Reverb time 2.8s
09	SH	Small Hall	1.5 seconds of reverb with early reflections Reverb time 1.5s
10	CH	Chorus	A "stronger" sound from modulation of signal and delay time Frequency 0.15-0.4Hz
11	Fl	Flanger	An enhanced tonal scale of the original signals Frequency 0.15-0.5Hz
12	PH	Phaser	Phase shifting effect Frequency 0.05-0.5Hz
13	Cr	Church	6 seconds of reverb with plenty of late reflections Reverb time 6s
14	CP	Chapel	A reverb with a lot of late reflections Reverb time 3.5s
15	rS	Rotary Speaker	180 degrees phase shift and peak modulation Frequency 0.1-5Hz
16	rE	Reverse Reverb	A reverse reverb with 1.2 seconds of reverb time Reverb time 1.2s

FX CLIP Indicator
When the FX Clip LED blinks, it indicates the strong mic input to the effect engine. When the LED light turns red, it indicates the mic input signal will be overdriven. Please turn down the mic trim control to weaken the mic input signal.



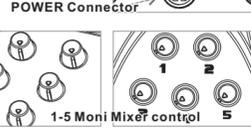
REMOTES Connector
The REMOTES connector connects a Moni Mixer-5. Moni Mixer-5 is a separate channel, and it can set the other sections' level by controlling the corresponding 1-5 controls. The REMOTE connector is a HDMI port, and it can only connect to our Moni Mixer-5 for power and audio frequency transmission.



POWER Connector
Power connector is a 4 PIN port, and you can only use the power adapter provided with the Rock House.



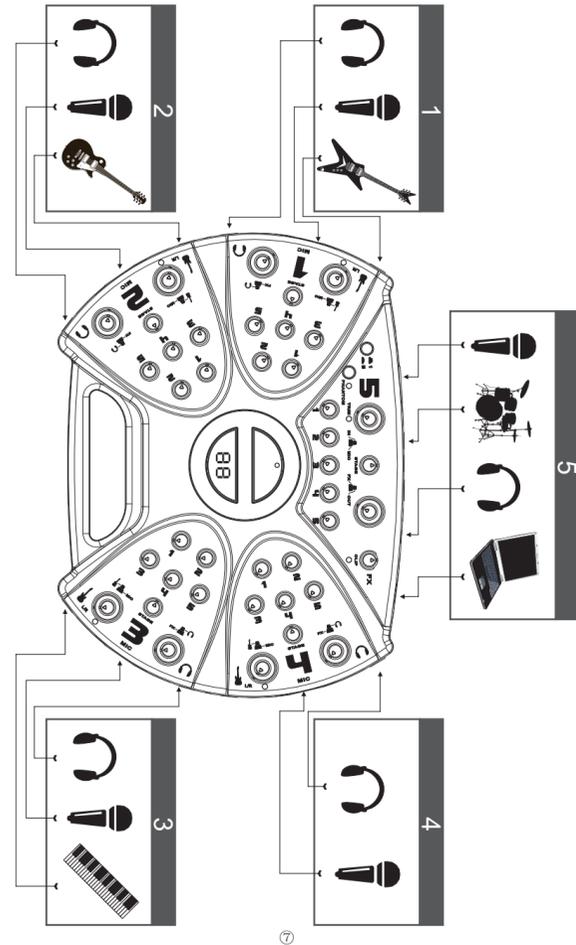
1-5 Moni Mixer control
Each Moni Mixer control section is like an individual mixer, and you can get to create the mix that is right for you while the other band members do the same. Everyone in the band can use their Moni Mixer controls to balance others' level in their headphones by turning up or down the control marked the corresponding "1" or "2" or "3" or other on their Moni Mixer section.



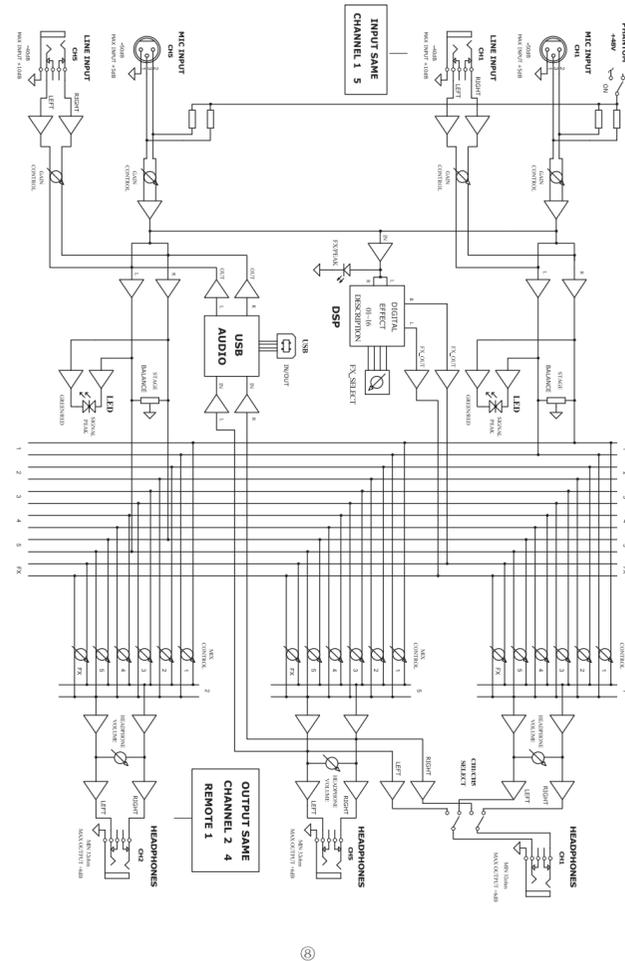
FX control
The FX control lets you have complete control of your mix effect, and create the mix that is right for you. Also you can monitor your own mic input effect and your band members in other channels.



Connection Schemes



Functional Block Diagram



Product Parameters

Type	The noiseless rehearsal studio		
Input Channels	Mono Channels (Ch1-Ch5)		
	Microphone Input	XLR, Balance, Unbalanced	
	Sensitivity	-50dB	
	Frequency Response	20Hz ~ 22kHz, +/-2dB	
	Distortion (THDIN)	0.05% At 0dB, 1kHz A-Weighted	
	Gain Range	Off to 0dB +/-3dB	
	SNR (Signal to Noise Ratio)	80dB A-weighted	
	Phantom Power	+45V ~ +52V With Switch Control	
	Meters	Green / Yellow (Green/Red) / Red	
	Maximum Voltage Gain Load: 32 Ohms	(53dB) Ch1 Input-Phones Output1	
		(53dB) Ch2 Input-Phones Output1	
		(53dB) Ch3 Input-Phones Output1	
		(53dB) Ch4 Input-Phones Output1	
		(53dB) Ch5 Input-Phones Output1	
	Stereo Channels (Ch1-Ch5)	Stereo Input	"1/4" TRS, Unbalanced
Gain Range		Off to 0dB +/-3dB	
SNR (Signal to Noise Ratio)		90dB A-weighted	
Frequency Response		20Hz ~ 22kHz, +/-2dB	
Sensitivity		-40dB	
Distortion (THDIN)		0.05% At 0dB, 1kHz A-weighted	
Maximum Voltage Gain Load: 32 Ohms		(40dB) Ch1 Input-Phones Output1	
		(40dB) Ch2 Input-Phones Output1	
		(40dB) Ch3 Input-Phones Output1	
		(40dB) Ch4 Input-Phones Output1	
		(40dB) Ch5 Input-Phones Output1	
USB Channel		SNR (Signal to Noise Ratio)	80dB A-weighted
		Frequency Response	20Hz ~ 22kHz, +/-2dB
		Sensitivity	0dB
		Distortion (THDIN)	0.05% At +0dB, 1kHz A-Weighted
	Maximum Voltage Gain Load: 32 Ohms	(6dB) USB-Phones Output5	
		Microphone Input	3.3k Ohms
	Impedance	Stereo Input	22k Ohms
		Phones Output	32 Ohms
	A/D And D/A Converters	24 bits	
		Dsp Section	Type Of Effects
	Presets		16-Position Preset Selector
	Display		Character / Clip LED
	Adjacent Input		-70dB @ 1kHz (Channels Gain Min) A-weighted
	Input -> Output		-75dB @ 1kHz (Mix Knob Min) A-weighted
	Crosstalk	Channels -> Channels	-70dB @ 1kHz A-weighted
Noise (Bus noise)		-80dB @ 20Hz ~ 22kHz (Channels Gain Min) A-weighted	
Phones Max Output		+6dB Unbalanced "1/4" Jacks	
Mix Phones Section	mix Range	Off to 0dB +/-3dB	
	Phones Range	Off to 0dB +/-3dB	
	Main Voltage	AC100-240V 50Hz-60Hz Fuse: T1, 6A 250V (Switch Power)	
Power Supply	Dimension (W D H)	275*240*59mm	
	Net Weight	3.7kg	
Physical	Gross Weight	4.3kg	
	Rated Power Consumption	25W	



JOYOTECHNOLOGY CO., LTD

Address: 2/F, Lushi Industry Building, 28th District, Bao'an, Shenzhen, 518101 China.
www.joyoaudio.com Email:jack@joyoaudio.com Tel: 0086-755-29765381



Rock House
noiseless rehearsal studio
User Manual

JOYOTECHNOLOGY CO., LTD

Thank you very much for purchasing our product.

Please read the User Manual carefully before using Rock House. In addition, please keep this User Manual so that you can read it at any time when necessary. The Rock House noiseless rehearsal studio is designed for music lovers, and it is a great companion to every music lover for teaching, practicing and band rehearsal. It has 5 instrument inputs, 5 mic inputs, 5 headphone outputs, and USB connector to computers, and it extends the function of a mixer. Being compact and exquisite in design, Rock House is unexpectedly powerful! It has five separate color-coded sections, and each musician picks a color section and plugs in their instruments, microphones and headphones, then using their section's Moni Mixer controls to create their own perfect mix. In addition, Rock House has a very special handle, which facilitates portable handling and perfect space allocation of the five color-coded sections. Rock House is equipped with low noise preamplifiers, separate channel mixing, high dynamic headphone amplifiers, and full conductive coatings to ensure clean signal transmission. Our Rock House noiseless rehearsal studio is your best choice!

IMPORTANT SAFETY INSTRUCTIONS



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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



Never use with a cart, stand, tripod, bracket, or table except as specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Please do not open the Rock House, and attempt to disassemble the internal parts or conduct any reconstructions. Rock House does not contain any user-serviceable parts. When Rock House appears unusual, please turn off it and ask qualified service personnel for maintenance.

WARNING

Safety Guide

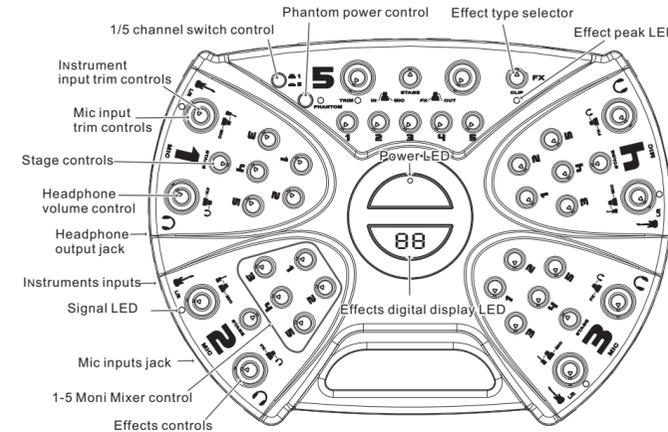
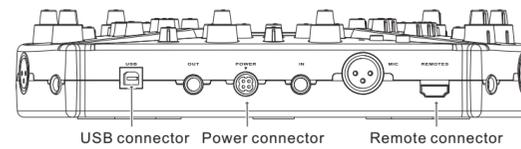
- Rock House should be used under specified rated voltage which is printed on the nameplate.
- Rock House should be used with the accompanying power supply cords or other "standard compliant" power supply cords.
- The power supply cords should be situated away from the heat sources or radiators, and placed properly to avoid trample, stumbling, or grinding. It should not be overbended or overloaded.
- Please unplug the power cord of Rock House from the outlet when left unused for a long period of time or under thunder and light.
- Please hold the plug when unplugging the power cord from the outlet to avoid damage of the power cord.
- Unplug the Rock House power adapter if any of the following conditions exist:
 - The power cord or plug has become frayed or damaged.
 - The Rock House has been dropped or damaged.
 - Sudden loss of sound happened or suspicious burning smells or smoke emitted.

Then ask qualified service personnel for maintenance.

- Please do not expose Rock House to rain, liquids or excessive moisture. Do not put any liquid containers on it in case of spilling any liquid into or onto Rock House.
- Please place Rock House away from heavy dust, vibration, extreme cold or hot places (such as direct sunlight, near heaters, or in the car in the sun) to avoid panel disfiguration or damage to the internal components.
- Please avoid any foreign objects (paper, plastic, metal, etc) dropping into the gap or opening apertures. If this happens, please immediately unplug the power plug from the power outlet to cut off power.
- Please keep the equipment reliably grounded for your safety. Please do not remove the grounding of the equipment or disable the grounding.
- Please connect Rock House to power followed by grid connection.
- Please do not use excessive force to operate Rock House so as not to damage it.
- Please ask service personnel to check the performance of wear-prone parts, like switches, control buttons, and connectors.
- Please clean Rock House with a clean, dry cloth. Never use benzene, thinner, detergent, or any flammable polishing liquid detergent.
- Please do not dispose Rock House with your household waste. The correct disposal can reduce the environmental pollution and health hazards. The disposal methods are different in different areas, please contact with us when it is necessary.
- Rock House is manufactured strictly with the specifications and voltage conditions in certain areas. If you purchased Rock House through network, mail, or telephone sales, please double check whether it can be used in your area or not. It is dangerous to use this item in any invalidated area and you can not enjoy the rights of manufacturer or dealer warranty. In addition, please keep your invoice as proof of purchase, otherwise you can not enjoy the rights of manufacturer or dealer warranty.

Hearing damage may occur if the Rock House or headphones are used at high volume. Please turn the volume to a comfortable volume.

Function Description

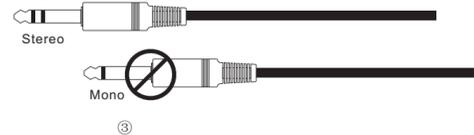


Rock House general functions:

Signal processing: Preamplifier, Signal level matching, effects mixing
 Signal distribution: Collect every processed signal and distribute to every channel
 Mixing: Mix signals from every channel and adjust the volume and effects
 Headphone driver: Power amplifier

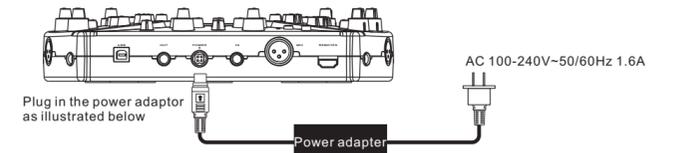
Instrument input connection

Connect your instrument with a stereo cable.



Power Connection

Turn the Stage knobs on Rock House at the middle point, turn down all other knobs to zero (100% counterclockwise) and bounce all the switches. Then plug in the power adapter. The blue LED light and red digital display LED tells you when the Rock House is ready.



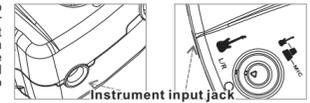
Mic Input jack

Mic inputs signals via XLR jack and the XLR jack can transmit balanced or unbalanced low or high level signals to Rock House. Dynamic mics, condenser mics, and low impedance mics can all be used here for signal input. Please use short mic cable to avoid noise when unbalanced mics are used.



Instrument input jack

Connect your instrument via the 1/4 TRS stereo socket to transmit balanced or unbalanced low or high level signals to Rock House. Please use short instrument cable to avoid noise interference when transmitting unbalanced signals. As most of the instruments are mono output, we have developed one cable (CM-06) to transfer 1/4 mono to 1/4 stereo to satisfy the Rock House stereo instrument input.

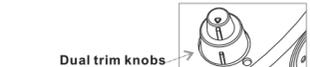


Trim Controls

Use the Trim knobs to set your input trim levels. The LED light under the trim knobs will guide you to set the trim to the right level. Proper trim level set is vital for the normal operation of Rock House Mute Rehearsal Studio.

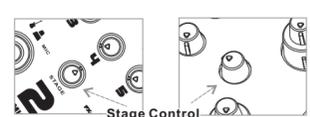


The dual trim knobs design (outer/bottom for mic input and inner/top for instrument input) allows separate adjustment of mic input trim and instrument input trim.



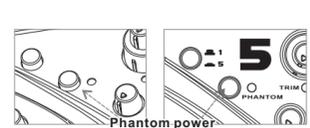
Stage Control

The stage control is simply a balance control that helps adjust the sonic location between musicians' ears to guarantee the optimized sound clarity. When turning it to the left, the sound signal will be received by your left ear, when turning it to the right, the sound signal will be received by your right ear. When turning it to the middle point, both your ears will receive the sound signals.



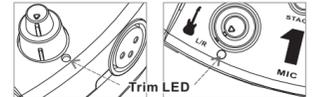
Phantom power

The Rock House provides +48V phantom power for condenser mics. Simply press the Phantom power button and the LED will illuminate red, then all the XLR jacks are supplied with +48V phantom power. The balanced connection between the condenser mics and the XLR jacks is required when the phantom power supplies power. The PIN 2 and PIN 3 of the XLR jack are supplied with the same +48V DC (PIN 1 is Grounded).



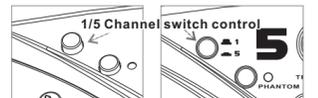
Trim LED

Trim LED indicates the input trim level. You can refer to the table below for your guide:
 No color: No signal or weak signal Green: good
 Yellow: caution Red: bad
 When the LED light turns yellow or red, please turn the dual trim knobs down a little till it turns green.



1/5 Channel switch control

To the musicians, the band leader or recording specialist may want to monitor one channel, especially the channel that records and amplifies. The Rock House monitoring system is basically for the 5th channel. You can have free option of 1 or 5 by pressing the switch control button. When the button is pressed down, what you are monitoring is the mix from channel 5. When the button is bounced, it is the monitoring of the 1st channel.



Headphone volume control

Headphone volume knob is set to control the headphone output. Start with the headphone output control at zero (100% counterclockwise) and slowly turn it up. You can adjust the headphone output according to your requirement.



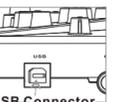
Headphone output jack

1/4 TRS stereo headphone jack connects to more than 32 ohms stereo power headphones. Human voice from the mics, the sound output from guitar, bass, drum, etc. will be mixed you can hear them via your headphones or by other amplifiers or recording equipments.



USB Connector

The USB 1.1 connector connects Rock House to Windows or Mac computer, and it realizes the transfer of analog signals to digital signals. It has two transfer delicacies: 16 bit/44.1KHz and 16 bit/48KHz. The USB connector facilitates the dual stereo audio transmission between the computer and Rock House. Rock House is compliant with the asio (Audio Stream Input Output) when the driver is loaded.



FX button-Effect Type Selector

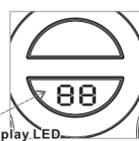
You can get your ideal sound effect by switching the FX button. Rock House noiseless rehearsal studio has built-in 16 kinds of sound effect, including reverb, delay, chorus, flanger, etc. When the Rock House is power on, there is no sound effect. You should turn the FX button to choose your ideal sound effect as shown on the digital display LED, and then slightly press the FX button. The red dot on the display LED will illuminate, and you get the effect you want. The FX button is 360 rotary and 16 sound effects will display continually.



FX button-Effect Type Selector

Effects Digital Display LED

Rock House noiseless rehearsal studio has built-in 16 effects, and they will be displayed in form of 16 different characters. The characters will be shown on the digital display LED.



Effects Digital Display LED

- | | |
|---------------------------|------------------------|
| 01: S-b-Slap Back | 09: S-H-Small Hall |
| 02: P-P-Ping Pong | 10: C-H-Chorus |
| 03: b-R-Big Ambiance | 11: F-L-Flanger |
| 04: E-r-Early Reflections | 12: P-H-Phaser |
| 05: E-C-Echo | 13: C-r-Church |
| 06: G-Gate | 14: C-P-Chapel |
| 07: M-Med Speaker | 15: r-S-Rotary Speaker |
| 08: H-L-Hall | 16: r-E-Reverse Reverb |