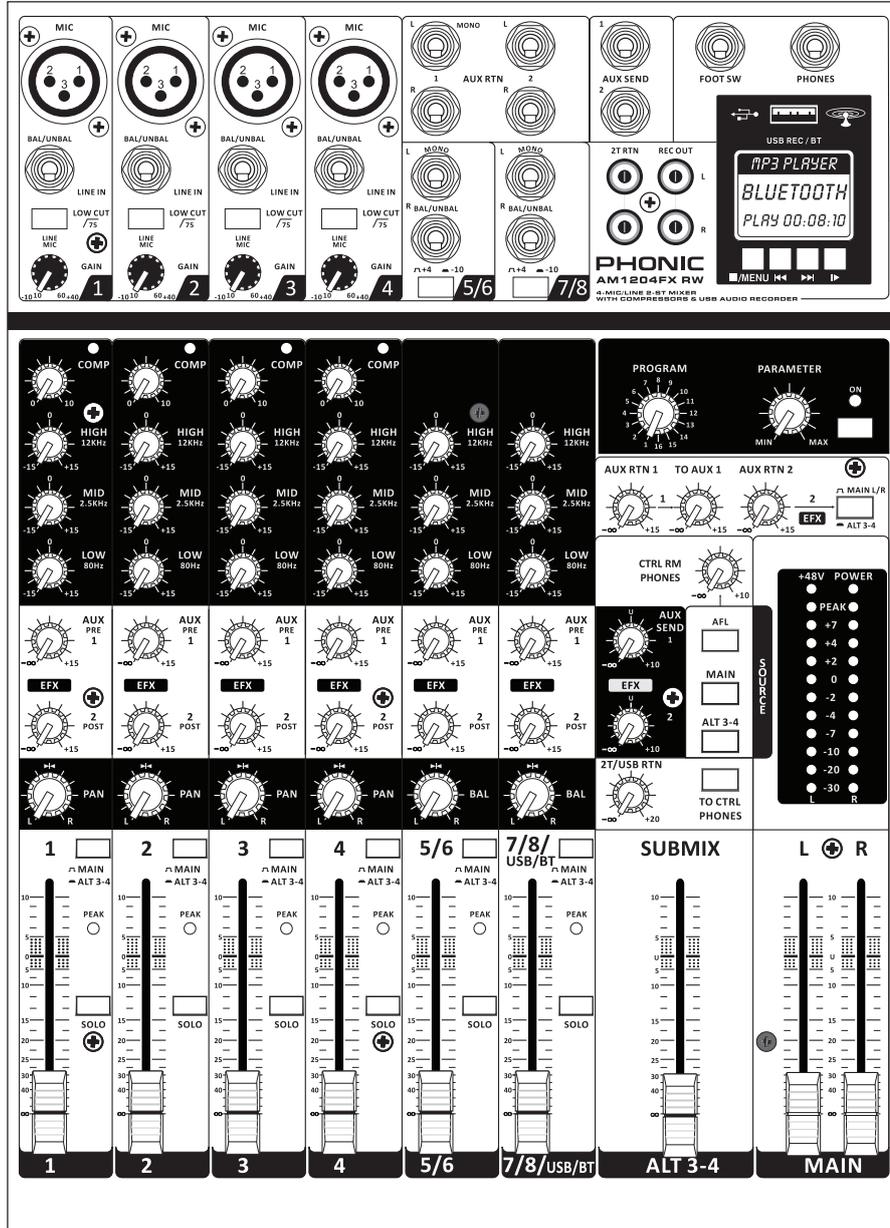


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AM1204FX RW

- User's Manual
- Manual del Usuario

AM204FX RW

COMPACT MIXERS
MEZCLADORAS COMPACTAS



ENGLISH	I
ESPAÑOL	II
APPENDIX	III

USER'S MANUAL

CONTENTS

INTRODUCTION.....	1
FEATURES.....	1
GETTING STARTED.....	1
USB INTERFACE.....	1
COMPUTER CONNECTION.....	2
MAKING CONNECTIONS.....	3
CONTROLS AND SETTINGS.....	4
SPECIFICATIONS.....	8

APPENDIX

DIGITAL EFFECT TABLE.....	1
APPLICATION.....	2
DIMENSIONS.....	3

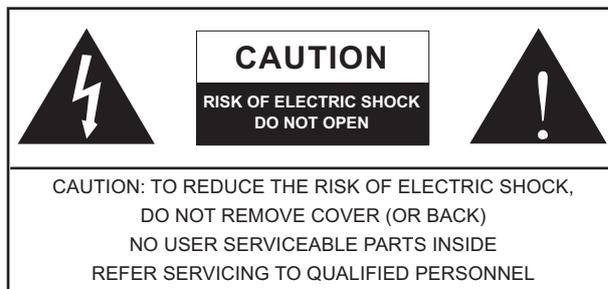
Phonic reserves the right to improve or alter any information within this document without prior notice.

IMPORTANT SAFETY INSTRUCTIONS

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus. The MAINS plug is used as the disconnect device, the disconnect device shall remain readily operable.

Warning: the user shall not place this apparatus in the confined area during the operation so that the mains switch can be easily accessible.

1. Read these instructions before operating this apparatus.
2. Keep these instructions for future reference.
3. Heed all warnings to ensure safe operation.
4. Follow all instructions provided in this document.
5. Do not use this apparatus near water or in locations where condensation may occur.
6. Clean only with dry cloth. Do not use aerosol or liquid cleaners. Unplug this apparatus before cleaning.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table 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.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



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 appliance.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.



INTRODUCTION

Thank you for choosing one of Phonic's many quality compact mixers. The AM1204FX RW compact mixers – designed by the ingenious engineers that have created a variety of mixers fantastic in style and performance in the past – displays similar proficiency that previous Phonic products have shown; with more than a few refinements, of course. The AM series features full gain ranges, amazingly low distortion levels, and incredibly wide dynamic ranges, just showing the dominance these small machines will have in the pro audio industry.

AM1204FX RW features four of Phonic's quality low-noise preamplifiers accepting microphone signals, as well as number of line-level ¼" phone jack inputs across four mono and two stereo channels. AM1204FX RW is adorned with studio-quality 32-bit digital effect processors that feature 16 unique effects, each of which has its own user-adjustable parameter. AM1204FX RW also features stereo USB audio interface, perfect for sending audio directly to any modern OSX or Windows based computer. Stereo audio can also be injected straight into your mix via the USB interface.

Furthermore, via the on-board USB Player/Reorder, the AM1204FX RW can playback/record music files from/into commercial USB Memory Disk directly, which providing unmatched flexibility and compatibility for all applications.

We know how eager you are to get started – wanting to get the mixer out and hook it all up is probably your number one priority right now – but before you do, we strongly urge you to take a look through this manual. Inside, you will find important facts and figures on the set up, use and applications of your brand new mixer. If you do happen to be one of the many people who flatly refuse to read user manuals, then we just urge you to at least glance at the Instant Setup section. After glancing at or reading through the manual (we applaud you if you do read the entire manual), please store it in a place that is easy for you to find, because chances are there's something you missed the first time around.

FEATURES

- 4 mono mic/line channels with our famously low-noise preamplifiers
- 2 stereo channels with +4 / -10 pad switches for greater input versatility
- AUX/EFX sends on each channel for creating monitor mixes and incorporating external signal processors
- Two stereo AUX returns for incorporating external signals into the mix
- AUX Return 1 features "to AUX 1" control for versatile EFX monitoring
- 75Hz low-cut filter on mono channel for removing stage rumble
- ALT 3-4 mix for redirecting muted channels to their own output
- 3-band EQ on every channel
- +48V phantom power on mic channels
- 11 segment level meter giving visual depictions
- Extremely versatile control room/phones source matrix for maximum monitor flexibility
- Balanced XLR outputs
- 2x2 USB audio interface for sending and returning stereo audio to and from a computer
- 32-bit digital effect engine with 16 EFX, each with their own user-adjustable parameter
- Variable compressor function on mono channels, ideal for vocals and drums
- On-board USB Player/Recorder (Supported Formats: Playback - MP3/WMA/WAV, Recording - MP3)

GETTING STARTED

1. Ensure all power is turned off on your mixer. To totally ensure this, the power supply should not be connected to the unit.
2. No input other than the one being set should have any device plugged in. This will ensure the purest signal is used when setting channels.
3. Set the level control of the channel you are setting to the 0 dB mark.
4. Disengaged the Mute button for the channel you wish to set.
5. Ensure the channel has a signal sent to it similar to the signal that will be sent when in common use. For example, if the channel is using a microphone, then you should speak or sing at the same level the performer normally would during a performance; if a guitar is plugged into the channel, then the guitar should also be strummed as it normally would be (and so on). This ensures levels are completely accurate and avoids having to reset them later.
6. Set the gain control on the channel so that the level meter indicates the audio level is around 0 dB.
7. This channel is now ready to be used; you can stop making the audio signal.
8. You can repeat the same process for other channels. Or not, it's your call.

USB INTERFACE

System Requirements

Windows

- Windows™ XP SP2, Vista™, 7 or 8
- Intel™ Pentium™ 4 processor or better
- 512 MB RAM (1 GB recommended)

Macintosh

- Apple™ Mac™ OSX 10.5 or higher
- G4 processor or better
- 512 MB RAM (1 GB recommended)

COMPUTER CONNECTION

By simply connecting the USB cable provided along with your AM1204FX RW to the device and your Personal Computer or Laptop, you are able to send CD quality (16-bit stereo, with a 44.1 kHz sampling rate) signal to and from your mixer. By doing this, you are actually turning your AM1204FX RW into a highly useful plug'n'play soundcard for your computer.

The USB sends an audio stream of the Main Left and Right (record out) signal of your mixer to the computer. You can use almost any dedicated Digital Audio Workstation (DAW) software to record the signal from the AM1204FX RW mixer. You can also set the mixer as your default audio device.

The USB interface also returns the audio signal from your computer back to the 2T Returns, the signal of which is controlled by the 2T / USB Return control. If there are input signals from both the USB interface and the 2T Return, the two signals are combined and controlled simultaneously by the 2T return control.

Windows

1. Turn on both the AM1204FX RW and your computer.
2. Connect the mixer to the computer via the provided USB cable.
3. Let Windows find the device and install an appropriate USB sound driver.
4. Enter the Control Panel and select Sounds and Audio Devices.
5. When here, go to the Audio tab and select the "USB Audio Codec" as your default sound recording and playback device.

6. Depending whether you have Windows XP, Vista, 7 or 8, this may differ slightly, but the settings can always be found within the Control Panel's audio menu.
7. If you don't want to use the AM1204FX RW as your computer's default audio device, you can simply enter your DAW or other audio software and select "USB Audio Codec" as your default device. This will allow the interface to be used within the software only.

Mac

1. Turn both the AM1204FX RW and the computer on.
2. Connect the AM mixer to the computer via the provided USB cable.
3. Enter the AUDIO MIDI SETUP menu.
4. Select the "USB Audio Codec" as your input and output device.
5. The AM1204FX RW is now your default audio device.
6. Alternatively, enter your DAW software (or other relevant audio program) and select the "USB Audio Codec" in the device preferences.
7. Be sure to set your minimum buffer settings to 64 samples as to avoid clicks and pops.

USB PLAYBACK / RECORD

The AM1204FX RW has a built in module for both USB playback and recording as well as Bluetooth audio streaming. First and foremost, use the ◀◀ and ▶▶ buttons to navigate the main menu visible on the USB/BT module's screen.

Any connected USB drive will be utilized automatically. Playing any audio files is as simply as using the ||▶ button to select the "MSC" option on screen and again to play a specific track found in the music playback menu.

Press the ■/MENU button to stop playback and again to return to the main menu. Push the button at any time to return to the previous menu.

Users can also scroll right on the main menu and select "REC" to record files. This function will record the main mix. The recording destination can be selected in the recording menu. Pushing the ◀◀ button will initiate the recording process and the ▶▶ button will finalize recordings. Use the ||▶ button to pause recording at any time.

USB Playback is sent through channel 7/8. When using the stereo input connectors simultaneously, the signals will be combined. Avoid doing so if at all possible, as managing the input levels of two inputs on a single channel can be challenging.

In either the MSC or REC menu, push and hold the ||▶ button to access additional features such as EQ and echo effect. In the recording menu you can also select to finalize recordings.

BLUETOOTH CONNECTIVITY

The Bluetooth function can be viewed within the USB/BT module by selecting BT in the main menu. The AM1204FX RW can be found in your Bluetooth-enabled device as "PHONIC". The password is 0000.

The BT audio is sent through channel 7/8. Both the USB playback and BT can be used simultaneously through this module, and users are advised to adjust the bluetooth level using their phone or tablet's own volume control. Push and hold the ||▶ button to access additional features.

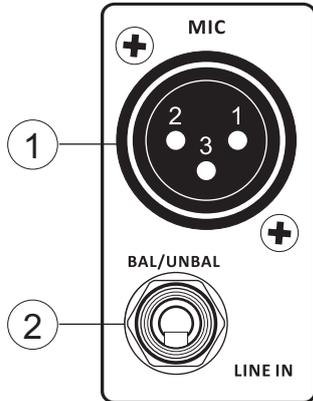
MAKING CONNECTIONS

Inputs and Outputs

1. Mic Inputs

These jacks accept typical 3-pin XLR inputs for balanced and unbalanced signals. They can be used in conjunction with microphones – such as professional condenser, dynamic or ribbon microphones - with standard XLR male connectors, and feature low noise preamplifiers, serving for crystal clear sound replication. AM1204FX RW features four standard XLR microphone inputs for your convenience.

NB. When these inputs are used with condenser microphones, the Phantom Power should be activated. However, when Phantom Power button is engaged, single ended (unbalanced) microphones and instruments should not be used on the Mic inputs.



2. Line Inputs

This input accepts typical 1/4" TRS or TS inputs, for balanced or unbalanced signals. There are various numbers of these inputs depending which mixer you are using. They can be used in conjunction with various line level devices, such as keyboards, drum machines, electric guitars, and a variety of other electric instruments.

3. Stereo Channels

AM1204FX RW features two stereo channels thrown in for maximum flexibility. Each of these stereo channels features two 1/4" TRS phone jacks, for the addition of various line level input devices, such as electronic keyboards, guitars and external signal processors or mixers. These stereo channels can also be used as mono channels, where the signal from any 1/4" phone jack plugged into the Left stereo input will cause the signal to be duplicated to the Right input due to the miracle of jack normalizing. This does not work in reverse, however.

4. AUX Returns

These 1/4" TS inputs are for the return of audio to the AM1204FX RW mixer, processed by an external signal processor. If really needed, they can also be used as additional stereo input channels. The feed from these inputs can be adjusted using the AUX Return controls on the face of the mixer. When connecting a monaural device to the AUX Return 1 and 2 inputs, simply plug a 1/4" phone jack into the left (mono) input, and the signal will appear in the right as well.

NB. When any device is plugged into AUX Return 2, the mixer's internal digital effect engine is then disabled.

5. AUX Sends

These 1/4" TS outputs may be used to connect to an external digital effect processor, or even to an amplifier and speakers (depending on your desired settings), to the mixer. The signal sent from the AUX outputs are fed from the master AUX send controls which themselves get their signals from the individual AUX controls on input channels.

6. Footswitch Jack

This port is for the addition of a non-latching type footswitch. This can be used when the tap delay effect is chosen to adjust the tap delay parameter. By tapping the footswitch twice, the DFX processor will calculate the time between the two taps and use this as the tap delay time. When tapped multiple times, only the last two taps will be considered.

7. Phones Connector

This stereo output port is suited for use with headphones, allowing monitoring of the mix. The audio level of this output is controlled using the Phones / Submix control.

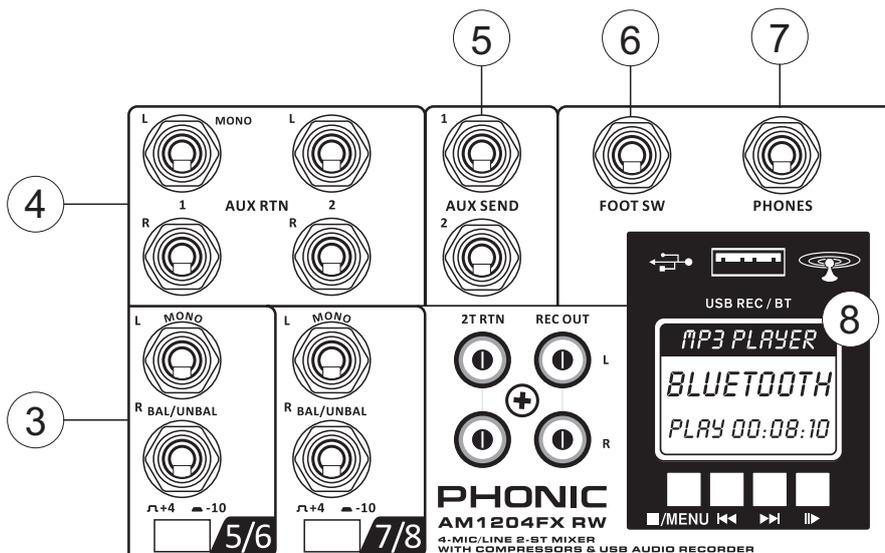
8. USB Player/Recorder

- LCD Display

This display will display the track number currently being played. It also offers play, pause and record indicators as well as the current play/record status.

- USB Port

Connect your USB flash drive to this input. Once a drive is connected, the files will initiate and the main menu will appear on screen. Users are advised to format their USB memory sticks with the FAT-32 file system.



● **⏪ (Play/Pause Button)**

Push this button to start and stop playback and recording of the currently displayed track. Starting a track after it is paused will resume the track from the point at which it was paused (in both record and playback mode). This is also used to confirm and/or select settings when navigating the main menu.

● **⏮ and ⏭ (Back/Next Buttons)**

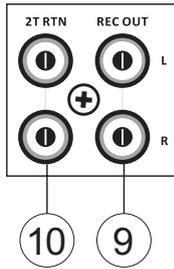
Pushing these buttons will allow users to skip back and forwards between tracks. When the menu is activated, these buttons are used to scroll through on screen options.

● **■ /MENU (Stop/Menu Button)**

Push this button to stop playback or recording when applicable. Pushing the button while in the main menu will return you to the previous page.

9. Record Out

These outputs will accommodate RCA cables, able to be fed to a variety of recording devices such as digital recorders, tape recorders, and even laptop computers.



10. 2T Return

These RCA stereo inputs are used to connect the mixer with external devices, such as tape and CD players, or even Laptop computers, receiving a signal from another source and feeding it to the Main L-R mix.

Rear Panel

11. Main L and R Outputs

These two ports will output the final stereo balanced line level signal sent from the main mixing bus. The primary purpose of these jacks is to send the main output to external devices, which may include power amplifiers (and in-turn, a pair of speakers), other mixers, as well as a wide range of other possible signal processors (Equalizers, Crossovers, etcetera).

12. Control Room Outputs

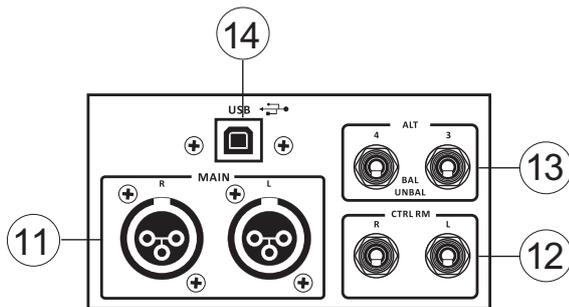
These two 1/4" Phone Jack outputs feed the signal altered by the Control Room/Phones level control on the face of the mixer. This output has extensive use, as it can be used to feed the signal from the mixer to an active monitor, for the monitoring of the audio signal from within a booth, among other possible uses.

13. ALT 3-4 Output

These unbalanced outputs are fed from the ALT 3-4 mix and can be used in conjunction with a large array of input devices, including signal processors, recording devices, monitor mixers, and so on. The ALT 3-4 mix is created by muting signals on channels 1 through 8.

14. USB Connector

The AM1204FX RW can be connected to any modern Windows or Mac-based computer. Doing so will allow users to get a stereo signal both to and from the computer.



CONTROLS AND SETTINGS

Back Panel

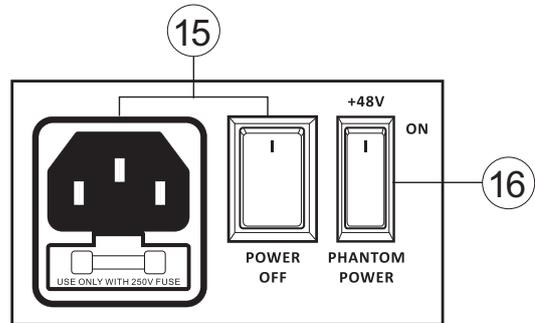
15. Power Switch and AC Connector

The power switch, located on the rear of the mixer, is used to activate the mixer. But there's no point in activating the mixer if there's no power, therefore an AC power connector has been included to ensure your mixer gets the power it needs. Please use the power cable that is included with this mixer only.

16. Phantom Power Switch

When this switch is in the on position, it activates +48V of phantom power for all microphone inputs, allowing condenser microphones (well, the ones that don't use batteries) to be used on these channels. Activating phantom power will be accompanied by an illuminated LED above the left channel level meter. Before turning Phantom Power on, turn all level controls to a minimum to avoid the possibility of a ghostly popping sound coming from the speakers.

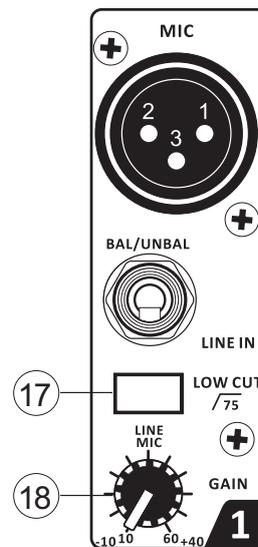
NB. Phantom Power should be used in conjunction with balanced microphones. When Phantom Power is engaged, single ended (unbalanced) microphones and instruments should not be used on the Mic inputs. Phantom Power will not cause damage to most dynamic microphones, however if unsure, the microphone's user manual should be consulted.



Channel Controls

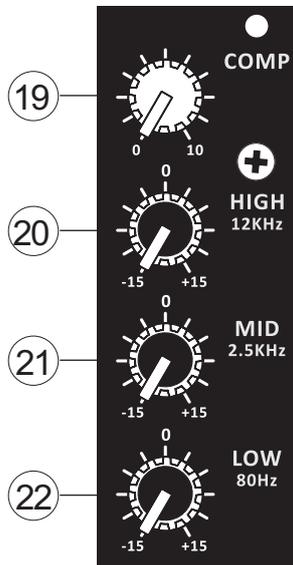
17. Low Cut Filter (75 Hz)

This button, located on channels 1 through to 4, will activate a low-cut / high-pass filter that reduces all frequencies below 75 Hz at 18 dB per octave, helping to remove any unwanted ground noise or stage rumble.



18. Gain Control

These controls, found on each input channel, allow users to adjust the sensitivity of the input signal for the Line/Microphone input. The gain should be adjusted to a level that allows the maximum use of the audio, while still maintaining the quality of the feed. This can be accomplished by adjusting it to a level that will allow the peak indicator occasionally illuminate. All 4 mono channels feature this control.



19. Compressor Control and Indicator

This controls the onboard compressor function on mono channels. Turning this control up towards the 12 o'clock position will adjust the threshold and ratio of the compressor at varying degrees. Once you reach the 12 o'clock position, the control will then adjust the compression settings along with an onboard expander (or, in other words, a "compander"). The LED that accompanies this control will light up when the compressor is triggered. This control and indicator can only be found on mono channels of the AM1204FX RW.

20. High Frequency Control

This control is used to give a shelving boost or cut of ±15 dB to high frequency (12 kHz) sounds. This will adjust the amount of treble included in the audio of the channel, adding strength and crispness to sounds such as guitars, cymbals, and synthesizers.

21. Middle Frequency Control

This control is used to provide a peaking style of boost and cut to the level of middle frequency (2.5 kHz) sounds at a range of ±15 dB. Changing middle frequencies of an audio feed can be rather difficult when used in a professional audio mix, as it is usually more desirable to cut middle frequency sounds rather than boost them, thereby soothing overly harsh vocal and instrument sounds in the audio.

22. Low Frequency Control

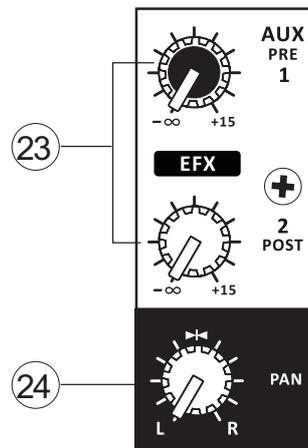
This control is used to give a shelving boost or cut of ±15 dB to low frequency (80 Hz) sounds. This will adjust the amount of bass included in the audio of the channel, and bring more warmth and punch to drums and bass guitars.

23. AUX / EFX Controls

The AUX 1 and 2 controls allow the user to send the corresponding signal to the AUX 1 and 2 mixes, the final levels of which are controlled by the AUX Send controls on the main mixing panel. These signals are then sent to the corresponding AUX Send Outputs for use with amplifiers and studio or stage monitors, or simply in conjunction with external processors. AUX 1 features a pre-fader, pre-EQ signal, while AUX 2's signal is post-fader, post-EQ. The AUX 2 control doubles EFX control on the AM1204FX RW, adjusting the signal that is sent to the built-in Digital Effects Processor.

24. Pan / Balance Control

This alternates the degree or level of audio that the left and right side of the main mix should receive. On mono channels, this control will adjust the level that the left and right should receive (pan), whereas on a stereo channel, adjusting the BAL control will increase the left or right audio signals accordingly (balance).



25. MAIN / ALT3-4 Button

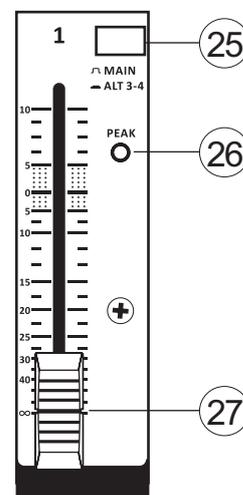
This button turns a mute on the corresponding channel on and off, stopping all audio from the channel input to the Main mix. When a channel is muted, this audio – which would normally be wasted – is redirected to the ALT 3-4 mix.

26. Peak Indicator

This LED indicator will illuminate when the device hits high peaks, 6 dB before overload occurs. It is best to adjust the gain of the channel so that the PEAK indicator lights up on intervals only, if at all. This will ensure a greater dynamic range of audio.

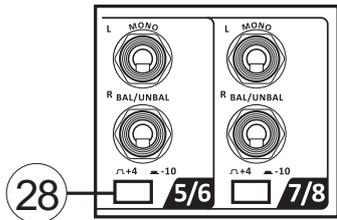
27. Level Control

This 60mm fader will alter the signal level that is sent from the corresponding channel to the main mix.



28. +4 / -10 Switch

This button, located on both stereo channels, is used to adjust the input sensitivity of the corresponding channels. This will adapt the channel to external devices that use different operating levels. If the input source is -10 dBV (consumer audio level), it is best to engage the switch, allowing the signal to be heard. The +4 dBu level is suitable for professional audio signals, which are considerably higher than the consumer level. However, if you are unsure of the source's operating level, we suggest leaving the switch disengaged until you test the source's signal. You can then engage it if necessary (if the level of the input signal is obviously too low).



Digital Effect Section

29. Program Control

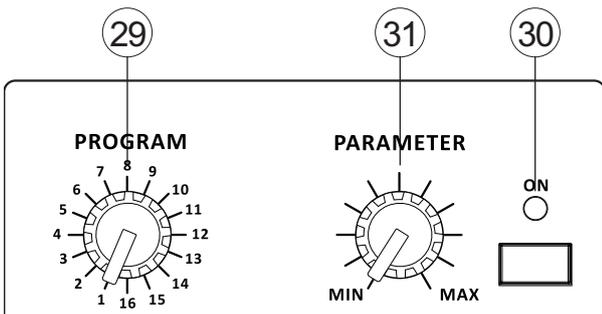
This control will allow users to select one of the 16 built-in digital effects of the AM mixer. The effect names that correspond with the numbers can be found on the top of the mixer's face, or in the digital effect table.

30. Effects On Button and Indicators

Pushing this button will turn the built-in effect processor on and off. When the effect processor is activated, the corresponding LED will light up to indicate so. The uppermost LED will light up when the EFX signal reaches excessive peaks and should be lowered slightly. Please note that unlike many other buttons on the AM mixer, the EFX ON button will not latch down.

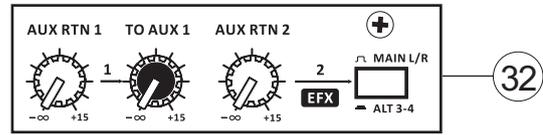
31. Parameter Control

Turning this control will adjust the one main parameter of the selected effect. Each effect's adjustable parameter can be found within the digital effect table.



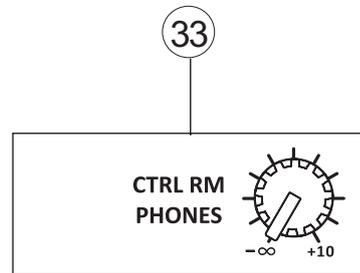
32. AUX Return Controls

These controls adjust the signal level of audio fed through the stereo AUX Return inputs to the main mix. The "To AUX 1" control found on the AUX Return 2 control adjusts the pre-fader level of the signal from the AUX Return to the AUX 1 Send mix. The button that accompanies the AUX 2 Return control allows users to determine whether the signal will be sent to the main stereo mix or the ALT 3-4 mix. When nothing is connected to the AUX 2 Return Input, the AUX 2 Return Control will be used to control the signal from the built-in effects.



33. Ctrl Room / Phones Control

This control is used to adjust the audio level of the Control Room feed, which is sent to both the Control Room outputs (for monitoring, acting as side fill or other purposes) and Phones outputs (to be used in conjunction with headphones for monitoring).



34. Control Room Source Buttons

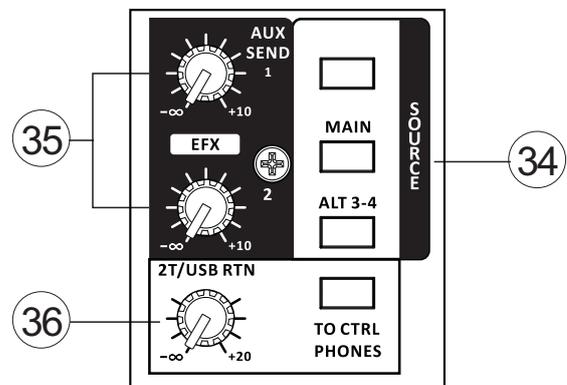
These buttons allow users to select the source signals for the Control Rooms / Phones mix. Users are able to select from the Main mix, ALT 3-4 mix or the 2T Return mix.

35. AUX Send Controls

These controls adjust the final level of their corresponding AUX mixes (as taken from the AUX controls on each channel strip). This audio is then sent to the AUX 1 and 2 Send outputs found on the top of the mixer face.

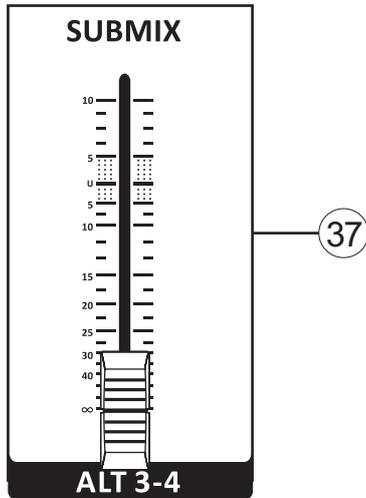
36. 2T / USB Return

This rotary control adjusts the incoming level from the RCA 2T input connectors as sent to the main mix (and Control Room/Phones, if selected in the Control Room Source section). Unique to the AM1204FX RW, this control is also used as the incoming USB level. All incoming signals through the stereo USB audio interface will be controlled by this control.



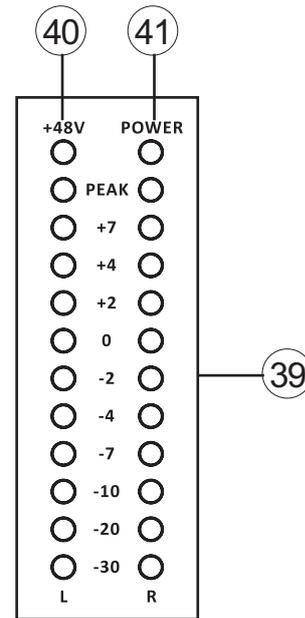
37. ALT 3-4 Submix Fader

This fader is the final level control used to adjust the ALT 3-4 mix. This mix is created by muting input channels. Instead of simply losing the audio from these channels, it's redirected to the ALT 3-4 mix.



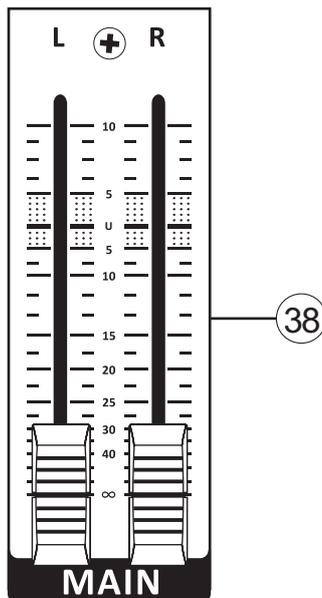
41. Power Indicator

This LED indicator will light up when the AM mixer is turned on.



38. Main Fader

This 60mm fader is final level control for the main left and right audio feed, sent to the Main Left and Right outputs.



39. Level Meter

The AM's stereo 11-segment level meter gives an accurate indication of when audio levels of the MAIN L/R output reach certain levels. It is suggested for the maximum use of audio to set the various levels controls to a level slightly below that which would cause the Peak LED to light up. This will help you get the most out of your audio without causing any distortion.

40. Phantom Power Indicator

This LED indicator will illuminate when the AM mixer's phantom power circuit is turned on.

SPECIFICATIONS

	AM1204FX RW
Inputs	
Total Channels	10
Balanced Mono Mic / Line Channel	4
Balanced Stereo Line Channel	2
AUX Return	2 stereo
2T Input	Stereo RCA
Outputs	
Main L/R Stereo	Bal. XLR x 2
ALT 3-4	1
Rec Out	Stereo RCA
CTRL RM L/R	2 x 1/4" TS
Phones	1
EFX Send	6
Compressors	4
AUX Send (Pre)	1
EFX Send (Post)	1
Pan/Balance Control	Yes
Volume Controls	60mm fader
Master Section	
Phones Level Control	1
Main L/R Level Control	60 mm fader
Level Meter	11-segment
Phantom Power Supply	+48V DC
Frequency Response (Mic input to any output)	
20Hz ~ 60KHz	+0/-1 dB
20Hz ~ 100KHz	+0/-3 dB
Crosstalk (1KHz @ 0dBu, 20Hz to 20KHz bandwidth, channel in to main L/R outputs)	
Channel fader down, other channels at unity	<-90 dB
Noise (20Hz~20KHz; measured at main output, Channels 1-4 unit gain; EQ flat; all channels on main mix; channels 1/3 as far left as possible, channels 2/4 as far right as possible. Reference=+6dBu)	
Master @ unity, channel fader down	-86.5 dBu
Master @ unity, channel fader @ unity	-84 dBu
S/N ratio, ref to +4	>90 dB
Microphone Preamp E.I.N. (150 ohms terminated, max gain)	<-129.5 dBm
THD (Any output, 1KHz @ +14dBu, 20Hz to 20KHz, channel inputs)	<0.005%

CMRR (1 KHz @ -60dBu, Gain at maximum)	80dB
Maximum Level	
Mic Preamp Input	+10dBu
All Other Input	+22dBu
Balanced Output	+28dBu
Impedance	
Mic Preamp Input	2 K ohms
All Other Input (except insert)	10 K ohms
RCA 2T Output	1.1 K ohms
Equalization	
	3-band, +/-15dB
Low EQ	80Hz
Mid EQ	2.5 kHz
Hi EQ	12 kHz
Low Cut Filter	75 Hz (-18 dB/oct)
USB Audio	Stereo In/Out
Connector Type	USB Type B
Bitrate	16-bit
Sampling Rate	48 kHz
Digital Effect Processor	16 Programs and Parameter Control
Footswitch	Yes
USB Playback/Recording	
USB Player/Recorder	Yes
Maximum Bitrate	320kb/sec
Compatible File Format	mp3, wma, wav
Recording Format	mp3
Power Requirements	100-240 VAC, 50/60 Hz
Weight	4.0 kg (8.8 lbs)
Dimensions (WxHxD)	245 x 104.5 x 340 mm (9.65" x 4.11" x 13.39")

SERVICE AND REPAIR

For replacement parts, service and repairs please contact the Phonic distributor in your country. Phonic does not release service manuals to consumers, and advice users to not attempt any self repairs, as doing so voids all warranties. You can locate a dealer near you at <http://www.phonic.com/where/>.

WARRANTY INFORMATION

Phonic stands behind every product we make with a no-hassles warranty. Warranty coverage may be extended, depending on your region. Phonic Corporation warrants this product for a minimum of one year from the original date of purchase against defects in material and workmanship under use as instructed by the user's manual. Phonic, at its option, shall repair or replace the defective unit covered by this warranty. Please retain the dated sales receipt as evidence of the date of purchase. You will need it for any warranty service. No returns or repairs will be accepted without a proper RMA number (return merchandise authorization). In order to keep this warranty in effect, the product must have been handled and used as prescribed in the instructions accompanying this warranty. Any tampering of the product or attempts of self repair voids all warranty. This warranty does not cover any damage due to accident, misuse, abuse, or negligence. This warranty is valid only if the product was purchased new from an authorized Phonic dealer/distributor. For complete warranty policy information, please visit <http://www.phonic.com/warranty/>.

CUSTOMER SERVICE AND TECHNICAL SUPPORT

We encourage you to visit our online help at <http://www.phonic.com/support/>. There you can find answers to frequently asked questions, tech tips, driver downloads, returns instruction and other helpful information.

support@phonic.com
<http://www.phonic.com>

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DIGITAL EFFECT TABLE

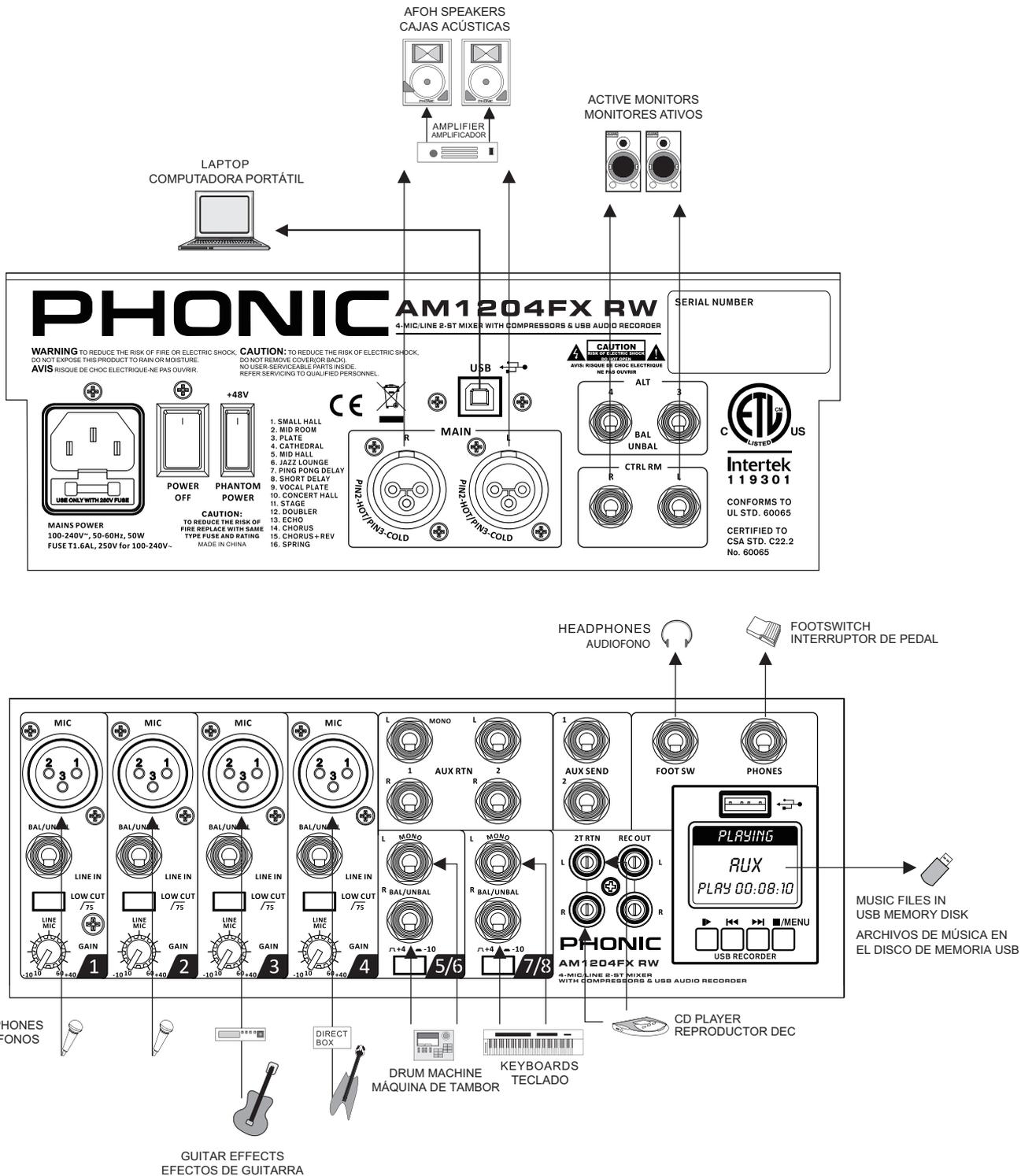
Program Number	Program Name	Parameter	Parameter Range
1	Small Hall	Reverb Time (S)	0.3 to 1.1
2	Mid Room	Reverb Time (S)	0.1 to 0.45
3	Plate	Reverb Time (S)	0.9 to 1.45
4	Cathedral	Reverb Time (S)	1.1 to 3.8
5	Mid Hall	Reverb Time (S)	0.5 to 1.66
6	Jazz Lounge	Reverb Time (S)	0.15 to 0.9
7	Ping Pong Delay	Delay Average (S)	0.08 to 0.55
8	Short Delay	Delay Average (S)	0.05 to 0.4
9	Vocal Plate	Reverb Time (S)	0.2 to 2.2
10	Concert Hall	Reverb Time (S)	0.3 to 2.45
11	Stage	Reverb Time (S)	0.6 to 1.6
12	Doubler	Feedback Ratio	20% to 90%
13	Echo	Delay Average (S)	0.12 to 0.55
14	Chorus	LFO	0.66 to 9.6
15	Chorus + Rev	LFO Reverb Time (S)	0.8 to 8.8 0.4 to 0.8
16	Spring	LFO	0.16 to 1.33

TABLA DE EFECTO DIGITAL

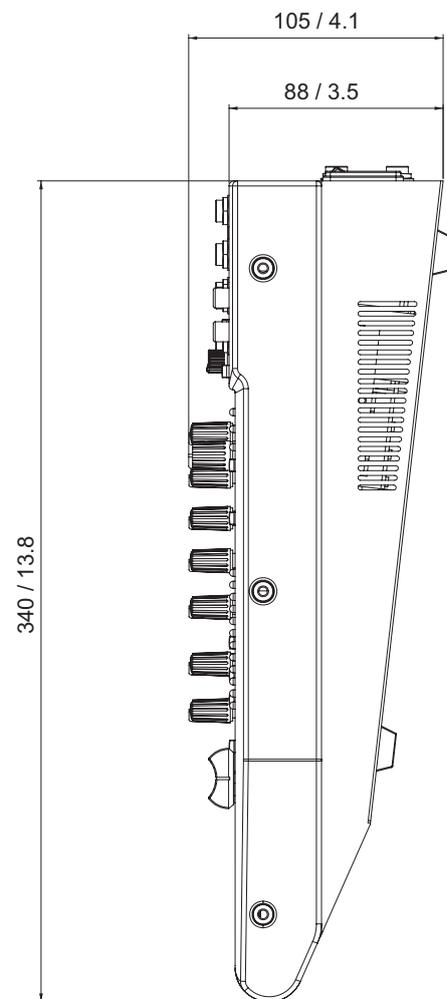
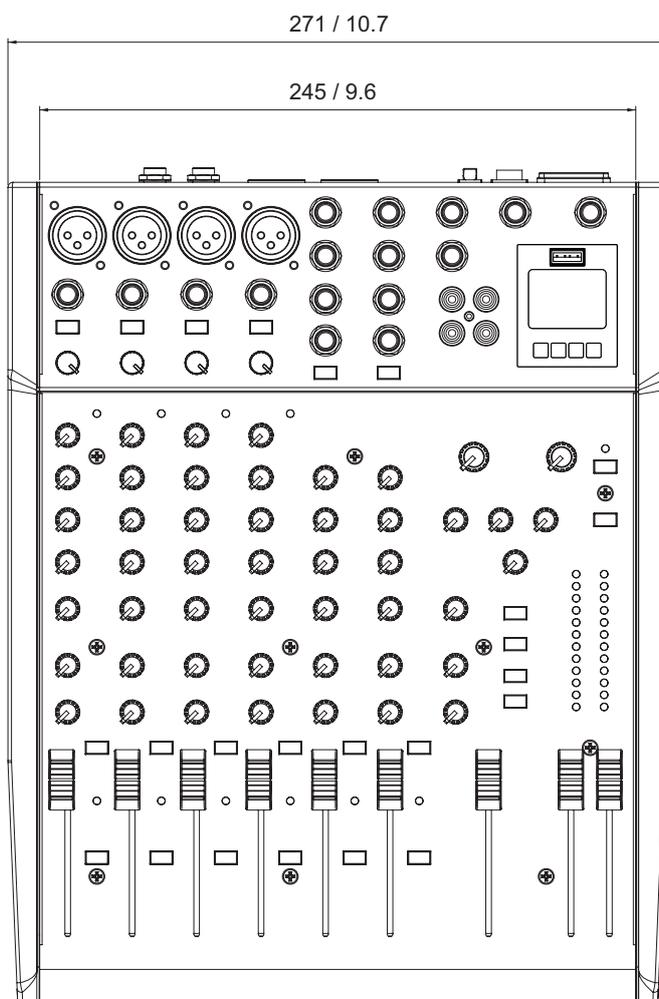
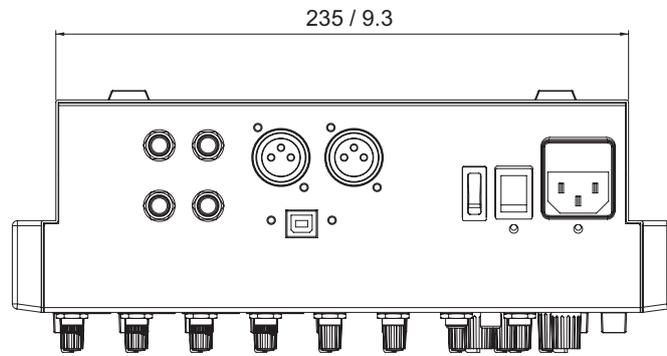
Numero de Programa	Nombre de Programa	Parámetro	Rango de Parámetro
1	Small Hall	Tiempo de Reverberación (S)	0,3 a 1,1
2	Mid Room	Tiempo de Reverberación (S)	0,1 a 0,45
3	Plate	Tiempo de Reverberación (S)	0,9 a 1,45
4	Cathedral	Tiempo de Reverberación (S)	1,1 a 3,8
5	Mid Hall	Tiempo de Reverberación (S)	0,5 a 1,66
6	Jazz Lounge	Tiempo de Reverberación (S)	0,15 a 0,9
7	Ping Pong Delay	Retraso medio (S)	0,08 a 0,55
8	Short Delay	Retraso medio (S)	0,05 a 0,4
9	Vocal Plate	Tiempo de Reverberación (S)	0,2 a 2,2
10	Concert Hall	Tiempo de Reverberación (S)	0,3 a 2,45
11	Stage	Tiempo de Reverberación (S)	0,6 a 1,6
12	Doubler	Proporción Feedback	de 20% asta 90%
13	Echo	Retraso medio (S)	0,12 a 0,55
14	Chorus	LFO	0,66 a 9,6
15	Chorus + Rev	LFO Tiempo de Reverberación	0,8 a 8,8 0,4 a 0,8
16	Spring	LFO	0,16 a 1,33

APPLICATION APLICACIÓN

Appendix
Apéndice



DIMENSIONS DIMENSIONES



All measurements are shown in mm/inches.
Todas las medidas están mostradas en mm/pulgadas.

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