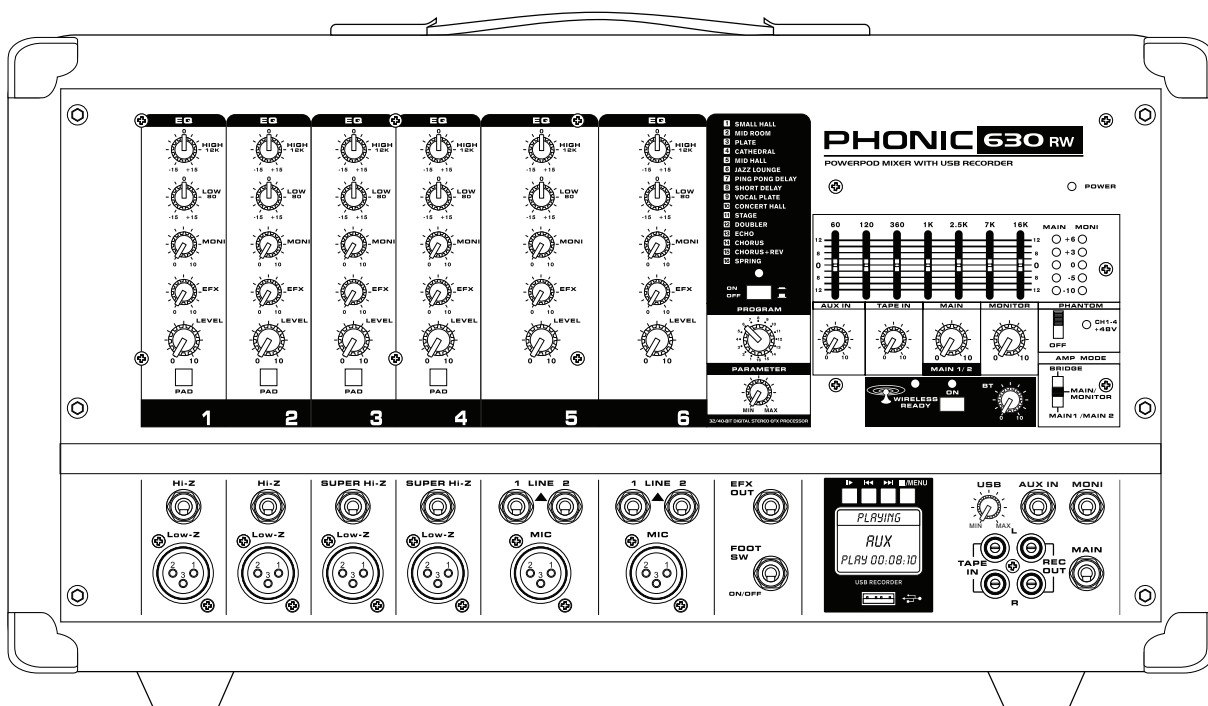


# PHONIC



WWW.PHONIC.COM

## POWERPOD 630RW

- User's Manual
- Manual del Usuario

# POWERPOD 630RW

POWERED MIXERS

MEZCLADORAS AMPLIFICADAS



ENGLISH..... I

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APPENDIX..... III

# USER'S MANUAL

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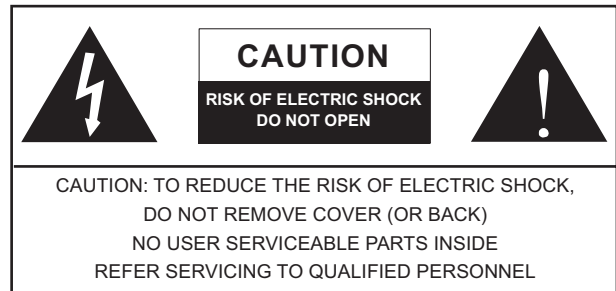
Phonic preserves the right to improve or alter any information within this document without prior notice.

## 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.



Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.

**WARNING:** The terminals marked with symbol of "⚡" may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by a qualified person or the use of ready-made leads or cords.

## INTRODUCTION

Phonic would like to congratulate you on the purchase of one of their extraordinary Powerpod mixers, powered mixers that provide more than the average. Since its introduction, the entire Powerpod series has given other powered mixer lines a run for their money. With fantastically low noise levels, high signal handling abilities, exceptional output levels, simplified signal routing abilities, and ultra-smooth controls, the Powerpod 630RW provides a level of dependability not often found in powered mixers as of late.

We know how eager you are to get started – getting the mixer out and hooking all your gear 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 Basic 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

- 150W + 150W / 4 ohms amplifier for main 1 / main 2 or main / monitor (Bridge mono, 300W / 8 ohms)
- 32-bit digital stereo multi-effect processor with 16 programs plus foot switch
- USB recorder and playback device for capturing all performances with ease
- Bluetooth connectivity for receiving audio from modern Bluetooth-enabled devices
- Stereo 7-band graphic equalizers
- 6 balanced mic inputs through XLR jacks
- 8 line inputs through 1/4" jacks
- 2 Super Hi-Z inputs optimized for direct input of acoustic electric guitars and electric guitars or basses
- 2 built-in limiters
- 2-band channel EQ
- Pad control on channel 1~4
- Monitor and effect sends on each input channel
- 1 AUX input
- +48V phantom power for input channels 1 to 4
- Tape In and Record Out RCA connectors
- Mains power cable built-in (voltage depends on region)

## BASIC SETUP

### Getting Started

1. Turn all power off on the Powerpod mixer. To ensure this, the AC cable should not be connected to the unit.
  2. All faders and level controls should be set at the lowest level to ensure no sound is inadvertently sent through the outputs when the device is switched on. All levels should be altered to acceptable degrees after the device is turned on.
  3. Plug all necessary instruments and equipment into the device's various inputs as required. This may include line signal devices, as well as microphones and/or guitars, keyboards, etc.
  4. Plug any necessary equipment into the device's various outputs. This could include speakers, monitors, signal processors, and/or recording devices.
- NB.** No devices other than speakers should be connected to the power amp outputs. Plugging inappropriate devices into the mixer will likely cause damage to the device. Also, guitar cables should not be used to connect amplifiers to speakers.
5. Plug the supplied AC cable into the AC inlet on the back of the device, ensuring local voltage level is identical to that selected by the Voltage Selector on the rear of your device.
  6. Plug the supplied AC cable into a power outlet of a suitable voltage.
  7. Turn the power switch on.

### Channel Setup

1. To ensure the correct audio levels of each input channel is selected, every channel faders should first be set to 0.
  2. Choose the channel that you wish to set the level of, and ensure that 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 that channel, then the guitar should also be used as it normally would be.
- NB.** It is probably best to have nothing plugged into channels which are not being set, just to ensure no signal is inadvertently sent through the channel.
3. This channel is now ready to be used; you can stop making the audio signal.
  4. You should now select the next channel to set and go back to follow steps 1 through 3.

**MAKING CONNECTIONS**

**Input Channels**

The Powerpod 630RW features a total of 6 channels, 2 of which accept stereo signals. Each channel features a microphone XLR jack and at least one 1/4" Phone Jack for balanced and unbalanced connections. Each stereo channel features different inputs jacks, accepting either microphone inputs or stereo line inputs.

**1. XLR Lo-Z Inputs**

These XLR microphone inputs can be used in conjunction with a wide range of microphones, such as professional condenser, dynamic or ribbon microphones, with standard XLR male connectors. With low noise preamplifiers, these inputs serve for crystal clear sound replication.

**NB.** When using an unbalanced microphone, please ensure phantom power is switched off. However, when using condenser microphones the phantom power should be activated.

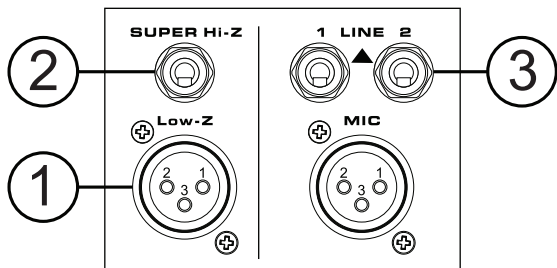
**2. 1/4" Hi-Z and Super Hi-Z Input Jacks**

These inputs accept typical 1/4" TRS or TS unbalanced inputs. The Hi-Z inputs accept balanced TRS inputs, and are for Microphone to line-level device (such as synthesizers and drum machines), where the Super Hi-Z inputs accept TS unbalanced sources, and can be used in conjunction with devices with higher impedance levels (including electric guitars and basses).

**NB.** When using a line-level device on your mixer, the PAD -25 button should be initiated.

**3. Stereo Channel Inputs**

Each of the Powerpod 630RW powered mixers provides 2 stereo input channels, the inputs of which differ slightly to the mono channels. The 3-pin XLR inputs featured are for the addition of microphones with typical XLR male inputs, where the 2 Line 1/4" TS jacks are for the addition of various stereo line level input devices, such as keyboards. If you wish to use a monaural device on a stereo return input, simply plug the device's 1/4" phone jack into the left (mono) stereo input and leave the right input bare. The signal will be duplicated to the right due to the miracle of jack normalizing.



**Master Section**

**4. Tape In (L and R)**

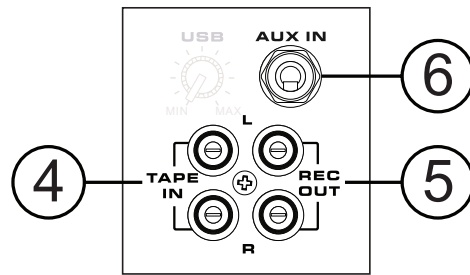
The first of these inputs accommodates RCA cables from such devices as tape and CD players. The line from this feed is directed to the Tape In mix, before being fed through to the Main 1/2 mix.

**5. Record Outputs (L and R)**

As with the Tape In ports, these outputs will accommodate RCA cables, able to be fed to a variety of recording devices. Also, similar to the Tape In ports,

**6. AUX Inputs**

This TS input connects the mixer with parallel external devices, such as sub mixers or external effect processors, receiving the processed signal from another source and feeding it to the AUX mix.

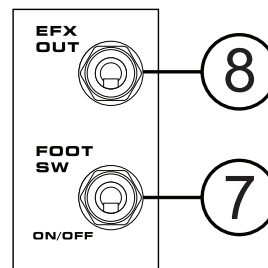


**7. Foot Switch Jack**

This port is for the inclusion of a non-latching foot switch, used to remotely adjust properties of the built-in Digital Effect processor. The Powerpod 630RW features a single foot switch jack, which allows the user to remotely turn on and off the digital effects.

**8. EFX (Effect) Outputs**

These 1/4" TS outputs are the final output from the EFX send mix. This feed may be used to connect to an external digital effect processor, or even to an amplifier and speakers, depending on your desired settings.

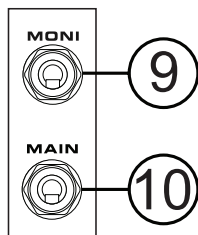


**9. Monitor Outputs**

These 1/4" TS outputs are the final output from the Monitor send mix. This feed may be used to connect to an amplifier and speaker. Feeding the output from the Monitor out to an amplifier (and possibly an equalizer) and then to a floor monitor speaker allows artists to monitor their own instruments or vocals whilst performing, or an engineer to monitor the mix.

**10. Main Outputs**

These jacks will output the final stereo line level signal sent from the main mix. The primary purpose of these jacks is to send the Main output to external devices that may run in parallel with the mixer. This may include additional power amplifiers, mixers, PA systems, as well as a wide range of other possible signal processors.



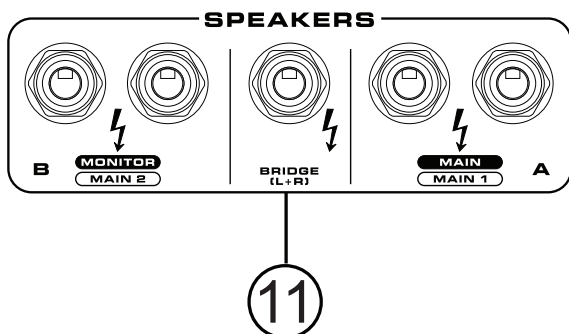
**Rear Panel**

**11. Speaker Outputs**

These jacks are used to connect to speakers, fed from the internal power amp. They consist of 1/4" Phone Jacks. The Amp Select switch determines the operation of these jacks. If the Amp Select switch is set to "Main 1-2" or "Main / Moni" a single speaker with a 4 to 8 ohm load can be connected to jack A on both the Main 1 and Main 2 Speaker Outputs. You can also connect two speakers with impedances between 8 and 16 ohms to both jacks A and B of the Main 1 and Main 2 Speaker Outputs.

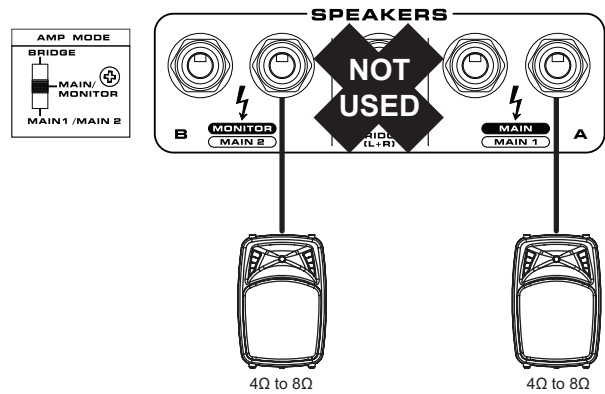
When using Bridge Mono mode, use the Speaker Output labeled "Bridge" only to connect a Speaker with a loading between 8 and 16 ohms. Refer to the Speaker set up chart to the right for a more detailed indication of how to connect speakers.

NB. Due to the fact that the signal has been processed by the power amp, these ports should be used in conjunction with passive speakers only to avoid damaging any other equipment.

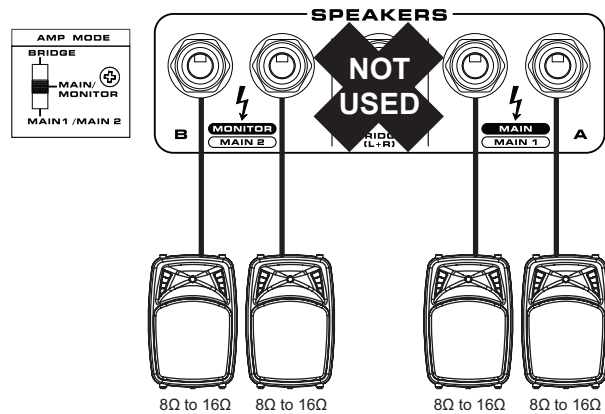


**SPEAKER SETUP**

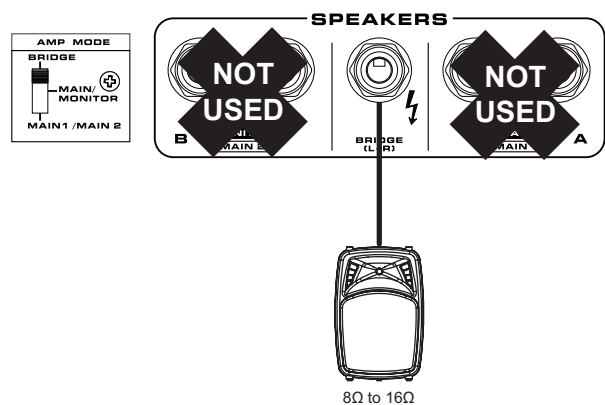
**One Speaker Per Channel**



**Two Speakers Per Channel**



**Bridge Mode**



Using speakers with an incorrect loading can not only cause distortion, but also irreversible damage to the powered mixer. Please ensure the loadings of your speakers are consistent with those shown above.

CONTROLS AND SETTINGS

Rear Panel

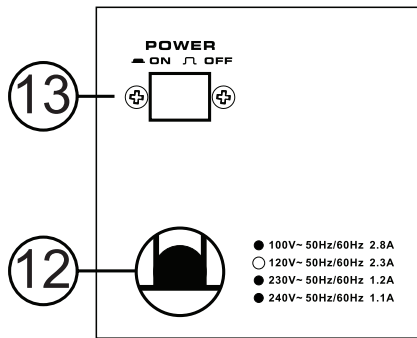
12. AC Power Cable

An AC power cable is built into the rear panel of the Powerpod 630RW. This cable includes a grounding pin that should not be defeated for any reason.

**NB.** Before connecting the Powerpod 630RW to a power outlet, please ensure the local voltage levels are identical to those of your Powerpod. The system voltage is dependent on the region you purchased your Powerpod. The system's voltage is indicated directly beside the power cable.

13. Power Button

The power button, located immediately above the power cable, is used to turn the Powerpod 630RW on and off.



Channel Controls

14. HIGH (High Frequency) Control

This control is used to give a shelving boost or cut of  $\pm 15$  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.

15. LOW (Low Frequency) Control

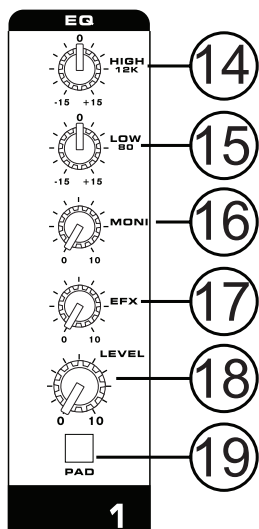
This control is used to give a shelving boost or cut of  $\pm 15$  dB to low frequency (80 Hz) sounds. This will adjust the amount of bass included in the audio of the channel, and bring more warmth and punch to drums and bass guitars.

16. MON (Monitor) Level Control

This control alters the signal level that is being sent to the Monitor mix, the signal of which is suitable for connecting stage monitors, allowing artists to listen to the music that is being playing.

17. EFX (Effect) Level Control

This control alters the signal level that is sent to the EFX output, which can be used in conjunction with external signal processors (this signal of which can be returned to mixer via the stereo return inputs), or simply as additional auxiliary outputs for any means required. These controls also adjust the level of audio that is sent to the built-in digital effect panel.

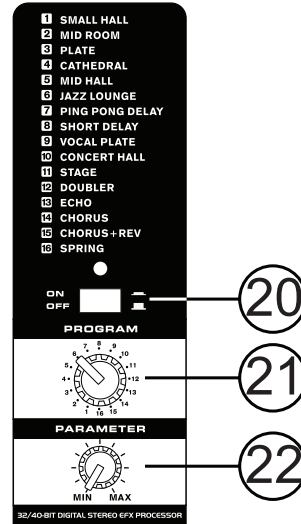


18. Channel Level Control

This control will alter the signal level that is sent from the corresponding channel to the Main mix.

19. PAD -25 Button

The PAD -25 button, located above the 1/4" Phone Jack of mono channels, is used to attenuate the input signal by 25 dB. This should only be pushed in when using line-level input devices.



Digital Effect Processor

20. Digital Effects On and Indicator

This button allows users to turn the digital effects on and off. The LED indicator that accompanies it will illuminate when EFX are activated. This button acts as a master EFX on switch. When EFX are on, they can then be bypassed using a footswitch connected to the Powerpod's footswitch jack.

21. Program Control

This control will allow users to select one of the 16 built-in digital effects of the Powerpod powered 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.

22. Parameter Control

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

Master Section

23. AUX In Control

Powerpod 630RW features an AUX in control (located beneath the Main Equalizer) that adjusts the final level of the AUX in input that is sent to the Main mix.

24. Tape In

Powerpod 630RW features a single Tape in control (located below the equalizer) that adjusts the final level of the AUX in input that is sent to the Main mix.



**25. Graphic Equalizers**

These graphic equalizer allows you to adjust the frequency response of a signal, with a maximum of  $\pm 12$  dB of signal boost or cut for each of the frequencies. The Powerpod 630RW features a stereo 7-band equalizer for both the Main and Monitor signals.

**26. Phantom Power Switch and Indicator**

When this switch is in the on position it activates +48V of phantom power for the XLR inputs on channels 1 to 4, allowing condenser microphones to be used on these channels. The corresponding LED will illuminate when the Master Phantom Power is activated.

**27. Amp Select Switches**

This switches control the activity of the built-in power amp, enabling the user to alternate between the different signals which can be processed by the built-in power amp and routed to the speaker outputs on the rear of the device. This switch allows you to select from: Main/Monitor – taking the monitor and main signals and directing them to the appropriate speaker outputs – Main 1 / Main 2 – using the Main 1/2 signal to feed the speaker outputs – and Main Bridge – which combines the Main 1 and 2 signals and feeds them through the Bridge output.

**NB.** When using a mono bridge connection, do not connect a speaker to any of the Main/Monitor A or B jacks, located on the rear of the mixer. Use the "Bridge" speaker jack only.

**28. Monitor Level Control**

This rotary control allows the user to adjust the final signal level sent to all Monitor outputs.

**29. Main Level Control**

This rotary control allows the user to adjust the final signal level sent to the Main 1-2 and Speaker outputs.

**30. Level Meter**

These level meters give accurate indications of when audio levels of the Main 1/2 and Monitor outputs reach certain levels. The 0 dB indicator illuminates is approximately equal to an output level of +4 dBu. It is suggested for the maximum use of audio to set the various levels controls so that it sits steadily between 0 and the second highest level indicated on the Level Meter to make full use of audio, while still maintaining fantastic clarity.

**31. Power Indicator**

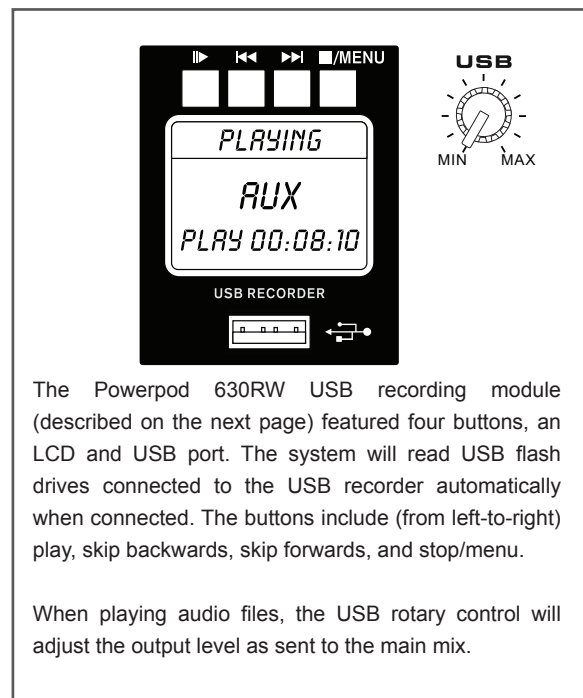
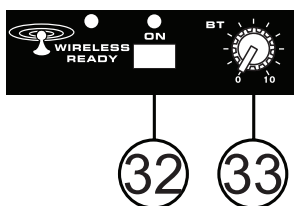
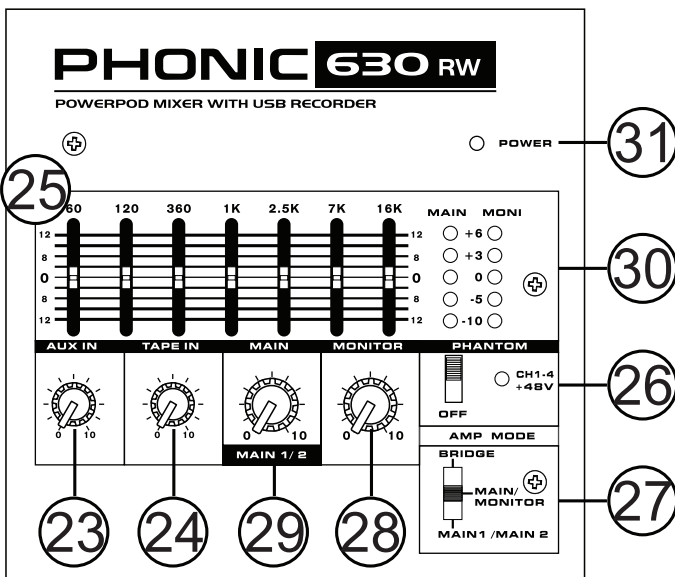
This LED indicator illuminates when power of your Powerpod mixer is activated.

**32. Bluetooth On Button and Indicators**

This button turns the Bluetooth function of the Powerpod 630RW on and off. The LEDs that accompany it indicate the status of the feature. The LED immediately above the button shows the feature is turned on while the "WIRELESS READY" LED will light up when a connection is established between a SmartDevice and the Powerpod.

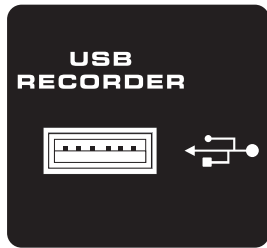
**33. Bluetooth Level Control**

This rotary control will adjust the level of the incoming Bluetooth signal that will be sent to the main mix.



The Powerpod 630RW USB recording module (described on the next page) featured four buttons, an LCD and USB port. The system will read USB flash drives connected to the USB recorder automatically when connected. The buttons include (from left-to-right) play, skip backwards, skip forwards, and stop/menu.

When playing audio files, the USB rotary control will adjust the output level as sent to the main mix.



# “R” Recording

The Powerpod 630 includes a USB recording module allowing for recording of digital audio to USB flash drives. It also allows MP3 and WMA files to be played back through the system. Please see the operating instructions below:

### Playback: The USB player supports WMA and MP3 playback through USB

1. Power on the device.
2. Insert an appropriately formatted (FAT32) USB flash drive.
3. On the main menu, select “Playback” and press the PLAY button.
4. Press the PLAY button to play the current track, or the << and >> buttons to skip forward and backwards between tracks.
5. Press the MENU button while in the Playback mode to access the File Browser, Delete File, Repeat Mode and Volume Control functions.
6. Press and hold the MENU button for three seconds to exit playback mode and return to the main menu.

**Folders** - Freely navigate songs in each folder on USB flash disc using the << and >> buttons. Press PLAY button to select, press MENU button to go back.

**Repeat Mode** - There 4 repeat modes available.

**No Repeat** - Play each file in the current folder or root for once.

**Repeat one** - Constantly repeat selected song.

**Repeat Folder** - Constantly repeat all the song in the certain folder or root.

**Random** – Enables random playback of files in current folder or root.

### Record: Users can record high quality WAV format

1. Power on the device.
2. Insert an appropriately formatted (FAT32) USB flash drive.
3. In the main menu, select “Record” and press the PLAY button to enter recording mode.
4. Select between the 128 kbit/s and 192 kbit/s WAV recording modes and press the PLAY button.
5. Record mode will begin in standby/pause. Push the Play/Pause button to begin recording. The unit will save the recorded file into the RECORD directory on the USB device.
6. Push the Play/Pause button to pause recording. Pushing the Play/Pause button again will resume recording from the position at which it was paused.
7. Press the MENU button at any time to save the recording. Once the recording is saved, the system will automatically skip to the next track.
8. To exit out of the record mode and return to the main menu, press and hold MENU button for three seconds.

#### NOTES:

1. The USB rotary control will adjust the playback level only and will not affect recording levels. The only level controls that will affect the recording level are those found on the individual input channels.
2. Users may experience very short instances of drop outs during playback of recorded WAV files.



# “W” Wireless Bluetooth

### Operation:

1. Activate Bluetooth by pushing the Bluetooth 'ON' button.
2. Search for and pair with “Phonic.BT” in the Bluetooth setup menu of your cell phone, tablet, PC, or other Bluetooth-enabled device.
3. If your device asks for a password, please enter “0000”.
4. Audio signals received through the Bluetooth interface are controlled via the Bluetooth rotary control.
5. If you cannot connect to the Phonic’s Bluetooth input, it might be because it is already connected to another device or someone has erroneously connected to it. Please restart your Powerpod and attempt the Bluetooth connection again.

6. When using smartphones and tablets, it may be an idea to turn “Airplane Mode” or “Flight Mode” on to stop phone calls or push notifications from interrupting your audio.

**NOTE:** Not all modern Bluetooth-enabled devices allow for use of external audio playback. In the case of laptops in particular, Bluetooth may be used for data transmission only - depending on the model. This is a limitation of these devices and you will not be able to use the Powerpod Bluetooth function with these devices.

## Specifications

	POWERPOD 630RW
Number of Power Channels	2
8 ohms per Channel	100
4 ohms per Channel	150
8 ohms Bridge Mono	300
Crosstalk (1KHz@0dBu, 20Hz to 20KHz bandwidth, channel in to main L/R outputs)	
Frequency Response at proper impedance load	+1/-3dB
Noise: 20Hz to 20KHz bandwidth, IHF-A weighted, line inputs to main L/R outputs, all channels assigned, panned L/R	
Master output, all fader down	<-78dBu
Power amp output, all fader down	<-63dBu
THD	
Power output, 1KHz, 20Hz to 20KHz	@150 watts, 4 ohms <0.12%
Any output, 1KHz @ +14dBu, 20Hz to 20KHz, channel inputs	<0.06%
Inputs / Outputs	
Lo-Z / Hi-Z Channels	4, 2 with super Hi-Z (470K ohms)
Balanced Mic/ Stereo Line Channels	2
2T Input	RCA
Aux Returns	1 x 1/4" TRS, Unbal.
Main Mono	1 x 1/4" TRS, Unbal.
Monitor Send	1 x 1/4" TRS, Unbal.
EFX Send	1 x 1/4" TRS, Unbal.
Record Out	RCA
Speaker Outputs	5 x 1/4" TRS
Master Section	
Monitor & AUX / EFX Send Masters	2
Effects Return to Monitor	Yes
Faders	Moni, Main (Rotary)
Phantom Power Supply	+48VDC
USB Playback/Recording	Yes
Maximum Bitrate	320kb/sec
Compatible File Types	mp3, wma
Recording Format	WAV
Bluetooth	Bluetooth 3.0 + EDR compliant
Audio DAC	>90dB SNR
Built-in Digital Effect Processor	16 programs, plus one main parameter control
Foot Switch	Digital effect mute: ON/OFF
Built-in Graphic EQ	Stereo 7-band
CMRR (1 KHz @ -60dBu, Gain at maximum)	80dB
Channel Equalization	2-band, ±15dB
Low EQ	80Hz
Hi EQ	12KHz
Power Requirement (depends on region)	100-120VAC, 220-240VAC, 50/60 Hz
Dimensions (WxHxD)	440 x 265 x 275 mm (17.4" x 10.2" x 10.8")
Weight	13.06 kg (28.8 lbs)

## **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>**

# **PHONIC**

**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

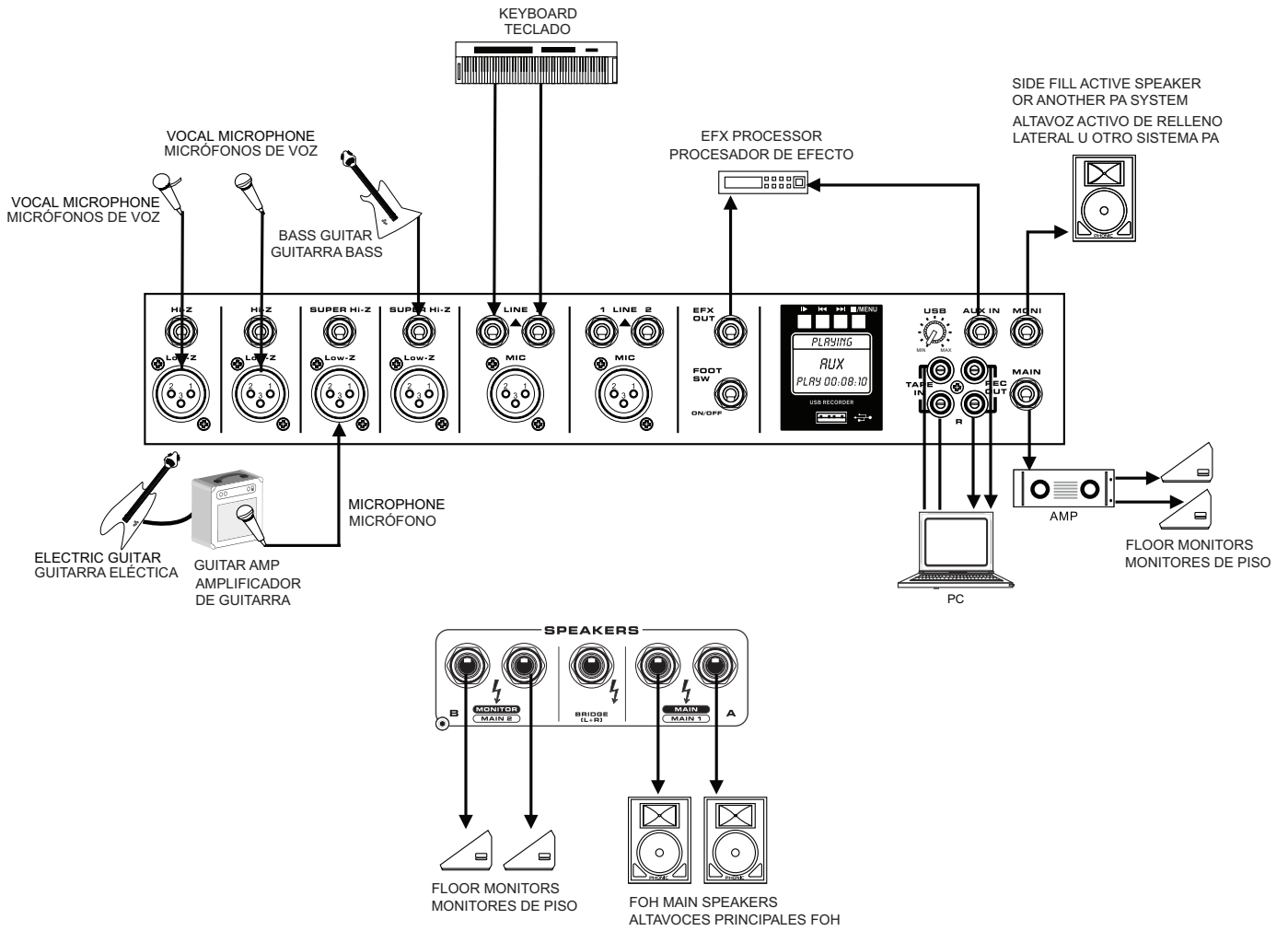
**TABLA DE EFECTO DIGITAL**

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

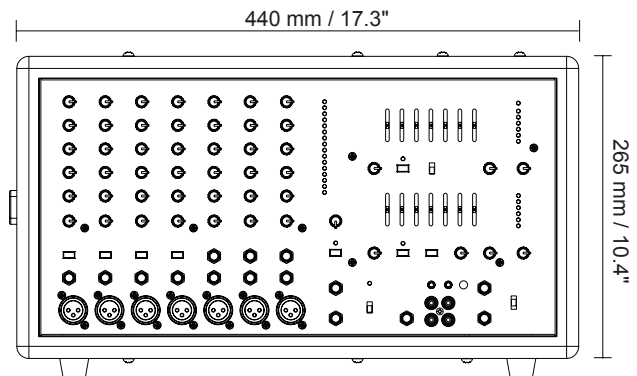
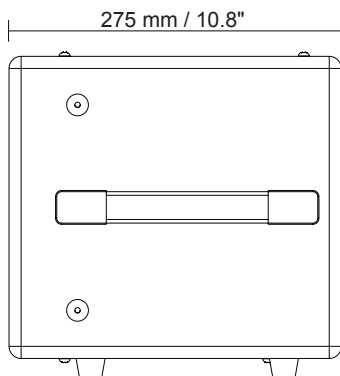
## APPLICATIONS APLICACIONES

Appendix

Apéndice



**DIMENSIONS    DIMENSIONES**

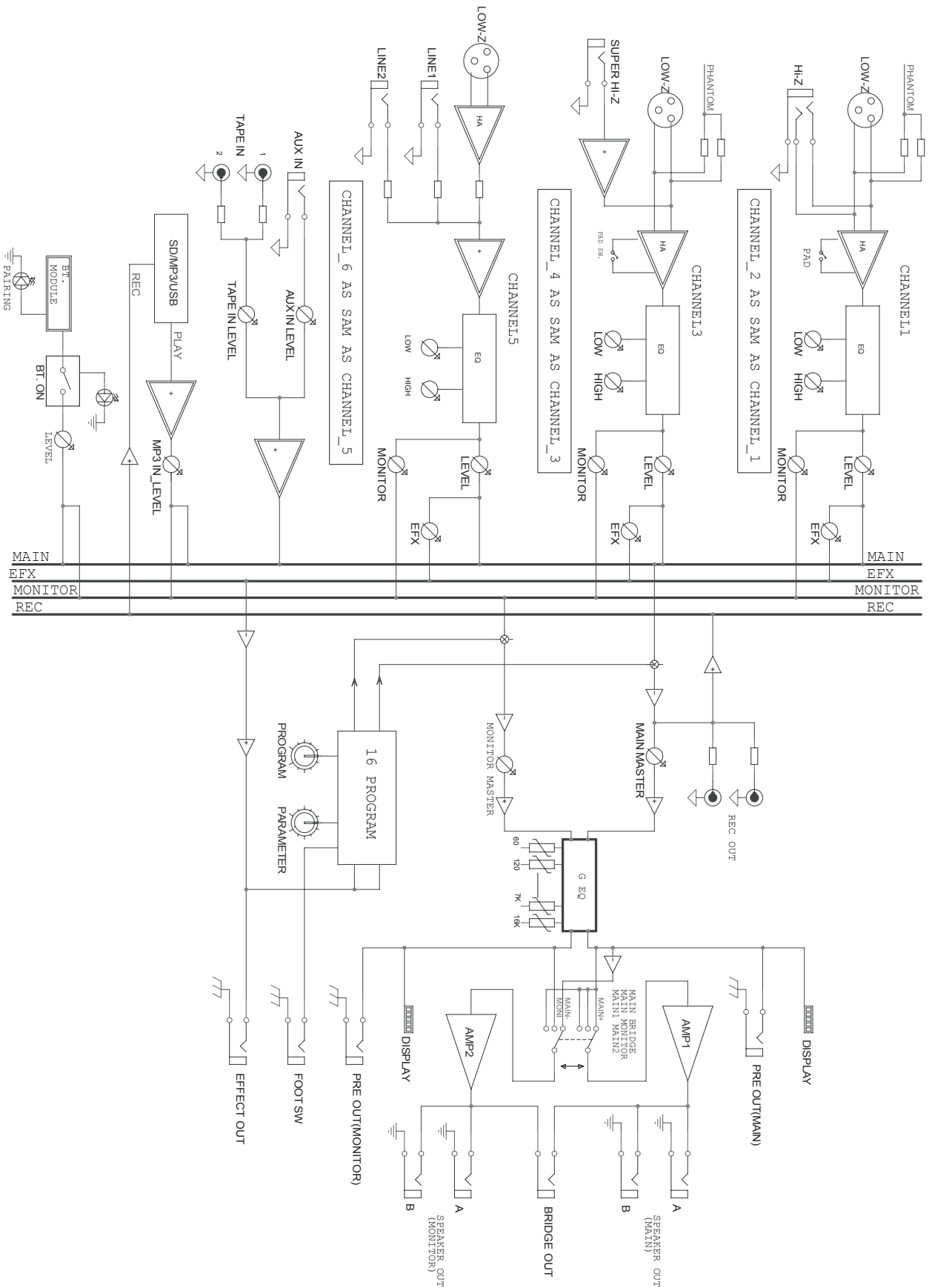


All measurements are shown in mm/inches.  
 Todas las medidas están mostradas en mm/pulgadas.

BLOCK DIAGRAMS DIAGRAMAS DE BLOQUE

Appendix

Apéndice





NOTES

Multiple horizontal lines for writing notes.

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