

# PHENYX PRO<sup>®</sup>

# PTX-400

Phenyx Pro 10-Channel Audio Mixer Sound Board System



**PHENYX PRO**  
[www.phenyxpro.com](http://www.phenyxpro.com)  
Designed in US Made in China

## OWNER'S MANUAL



# Technical Support & Warranty Information

## **Our Warranty to you:**

Phenyx Technology (“Phenyx”) warrants Phenyx products against evident defects in material and workmanship for a period of one year from the date of original purchase for use. This warranty is valid exclusively in the US and applies only to the original owner. If you discover a defect covered by this warranty, Phenyx will repair or replace the product at our sole discretion using new or refurbished components. Performance of repairs or replacements under this Warranty is subject to registration of your product at [www.phenyxusa.com/registerproduct](http://www.phenyxusa.com/registerproduct).

## **Product failures not covered by this warranty:**

This warranty covers defects in manufacturing that arise from the correct use of the device. It is limited to defects in materials or workmanship and does not cover electrical or mechanical damage resulting from abuse, misuse, unauthorized modification, lack of reasonable care, extreme heat, cold, damage due to natural forces, or corrosive environments. This warranty does not cover the normal wear and tear on covers, housing, connectors, and accessories.

## **Limits of liability:**

If your Phenyx product fails or does not perform as warranted, your sole recourse shall be to replace or repair it as described above. Phenyx will not be liable to you or anyone else for any damages that result from the failure of this product. These damages include, but are not limited to, the following: lost profits, lost savings, lost data, damage to other equipment, and incidental or consequential damages arising from the use of or inability to use this product. IN NO EVENT PHENYX SHALL BE LIABLE FOR MORE THAN THE AMOUNT OF YOUR PURCHASE PRICE, NOT TO EXCEED THE CURRENT LIST PRICE OF THE PRODUCT.

## **How to obtain service under this warranty:**

If you are receiving a system that is defective or you have any questions regarding operation or warranty cover, please contact us at [support@phenyxpro.com](mailto:support@phenyxpro.com) with any questions or concerns and a Phenyx Pro representative will contact you to provide assistance. You can also reach out to us through Facebook page: [www.facebook.com/phenyxusa/](http://www.facebook.com/phenyxusa/) or our official website: [www.phenyxpro.com](http://www.phenyxpro.com)

*Thank you for purchasing the PHENYX PRO PTX-400 Professional Audio Mixer. This manual includes a description of features and a step-by-step guide to operate the unit. Please read this manual carefully to ensure proper use and operation, and keep it for future reference.*

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# System Description

## Box Contents

### For PTX-400:

- 1 x PTX-400 10-Channel Audio Mixer
- 1 x AC/DC adapter
- 1 x Owner's manual

## System Overview

The PTX-400 is a 10-Channel Professional Studio Mixer that aims to cater all your mixing requirements. No matter what your audio mixing needs, the Phenyx Pro PTX-400 mixing console provides the performance and features that can take your talent to the next level. This studio mixer is equipped with the following features to offer professional sound quality and flexible personal mix:

- 8 Mono input channels with gold plated XLR and balanced line inputs and 2 RCA input channels
- Ultra-low noise discrete mic preamps with +48V phantom power
- Balanced inputs for high signal integrity
- Extremely high head room to offer more dynamic range
- 3-Band EQ on all channels with built in 256 digital special effects
- Stereo graphic equalizer for tone control
- USB streaming function to stream music from their USB drives.
- Headphone and control room monitor options

## SPECIFICATIONS

### • Mono Inputs

Mic input	Electronically balanced, discrete input configuration
Bandwidth	10Hz to 60kHz $\pm$ 3dB
Distortion(THD&N)	0.01% at 4 dBu, 1kHz, Bandwidth 80 kHz
TRIM range	+10dB to +60dB
Line Input	Electronically balanced
Bandwidth	10Hz to 60kHz $\pm$ 3dB
Distortion(THD & N)	0.01% at 4dBu, 1kHz, Bandwidth 80kHz
Line level range	+10dBu to -40 dBu

### • Equalization

Hi Shelving	12kHz +/- 15dB
Mid Range	2.5kHz +/- 15dB
Lo Shelving	80Hz +/- 15dB

### • Master Mix Section

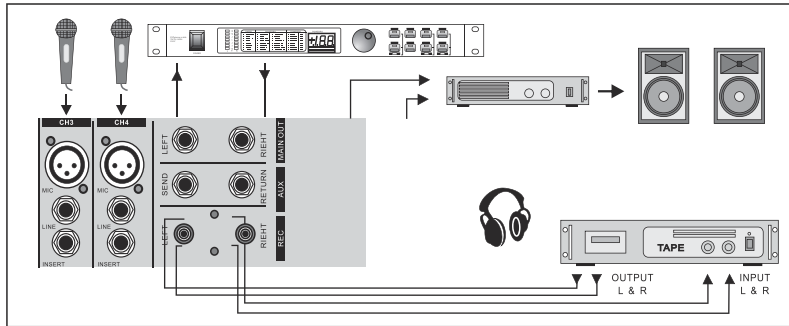
Max Output	+22 dBu balanced
Aux Send Max Out	+22 dBu unbalanced
Control Room Out	+22 dBu unbalanced
Signal-To-Noise Ratio	112 dB, all channel at Unity Gain

### • Power Supply

Mains Voltages	USA/Canada, -120V AC, 60Hz
	U.K./Australia, -240V AC, 50Hz

## Set Up

### A. Mixer



#### 1. AC Power In

Use the included AC adapter or connect the device to a wall outlet

#### 2. Audio Connection

You will need a large number of cables for different applications. See above. Please use commercial RCA cables to connect the 2-track inputs and outputs.

You can, of course, also connect unbalanced devices to the balanced inputs/outputs. To do this, use either mono plugs or stereo plugs with the ring and sleeve bridged (pins 1 and 3 in the case of XLR connectors).

**Never use unbalanced XLR connectors (PIN 1 and 3 connected) on the MIC input connectors when using the phantom power supply.**

### B. Recording to USB drive

1. Insert USB drive.
2. Short press MODE button to select "rEC" (recording) mode.
3. Short press MP3 PROGRAM KNOB to begin recording.
4. Short press MP3 PROGRAM KNOB to pause/continue the recording.
5. Long press MP3 PROGRAM KNOB to finish recording. The screen will show "rEC" again.
6. Short press MODE button to exit recording mode and go back to USB streaming mode.

### C. BT streaming

1. Short press MODE button till the screen displays "bLUE" to enter BT mode
2. Open your phone setting and search for "MIX-MP3 BT" device and connect to it.
3. After pairing successfully, play music on your phone.

# Operating Instructions

## Control Elements and Connector

### A. INPUT CHANNEL SECTION

#### 1. INPUT JACK (MIC/LINE)

This multipurpose input jack allows both standard XLR connector and 1/4" line connector. Balanced and unbalanced input are both suitable for this input jack. +48V phantom power is available on each input mic socket.

#### 2. INSERT JACK (LINE)

Allow user to add external line level device to the signal flow

#### 3. PAD SWITCH

To avoid overloading, pressing the pad switch can cut the input signal by 26dB.

#### 4. LOW CUT SWITCH

Press down the low cut switch can cut off signal frequency under 100Hz.

#### 5. GAIN CONTROL

Adjust the input signal level.

#### 6. HIGH EQ

High range EQ control for up to 15dB of boost or cut at 12KHz and above. Use it to add sizzle to cymbals, add an overall sense of transparency or edge to keyboard, vocals, and guitar.

#### 7. MID EQ

Mid range EQ control for up to 15 dB of boost or cut centered at 2.5KHz. Mid range EQ is often thought of as the most dynamics because the frequencies that define any particular sound are almost always found in this range. You can create useful EQ changes by using this knob to adjust sound.

#### 8. LOW EQ

Low range EQ control for up to 15dB boost or cut at 80Hz and below.

#### 9. MON SEND

Turn this knob to adjust the signal level sent to the MON output for monitoring

#### 10. EFX SEND

Adjust the strength of after-effect signal of each input channel.

#### 11. PAN

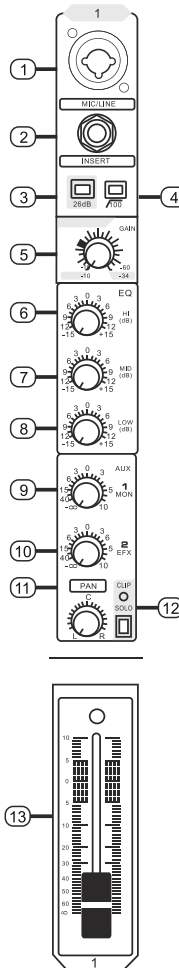
The pan control sends post fader signal to either the left or right and G1 or G2 main buses. In the center position, equal amounts of signal are sent to the left and right or G1 & G2 buses

#### 12. SOLO SWITCH

This switch allows you monitor this channel's pre-fader signal. When this button is pressed down, the pre-fade signal will be sent to PHONES jack.

#### 13. CHANNEL FADER

Adjust the volume of the sound input from the microphone or other sources connected to each channel. Normal operating position is at the "0" mark, providing 4dB gain above that point if required.

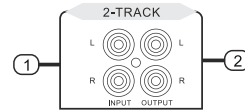


# Operating Instructions

## Control Elements and Connector

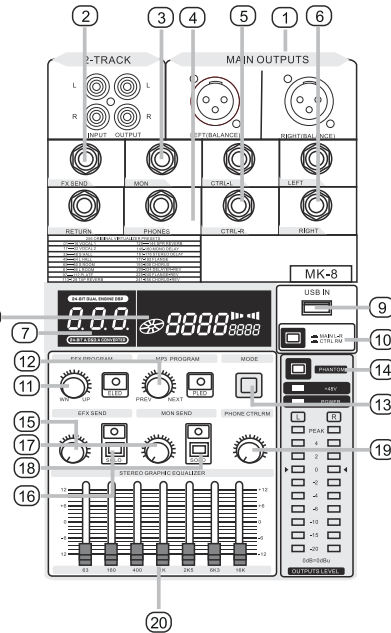
### B. AUXILIARY INPUT SECTION

1. INPUT JACK (RCA)
2. OUTPUT JACK (RCA)



### C. MASTER SECTION

1. MAIN OUTPUT JACK (LEFT/RIGHT, XLR)  
Output mix to next stage equipment through XLR jacks
2. EFX SEND/RETURN  
Connect all kinds of effects from outside
3. MON JACK  
1/4" jack to connect monitors
4. PHONES JACK  
1/4" jack to connect headphones
5. CTRL-L/CTRL-R (LEFT/RIGHT)  
1/4" jack to output audio to control room monitors
6. MAIN OUTPUT JACK (LEFT/RIGHT, LINE) ⑧  
Output mix to next stage equipment through 1/4" jacks
7. EFFECT DISPLAY  
LCD display for 256 effects
8. USB DISPLAY SCREEN
9. USB INPUT
10. USB SWITCH  
When this switch is pressed down, the audio from USB connection will be sent to control room output jacks. When this switch is not pressed, the audio from USB connection will be sent to main output jacks.

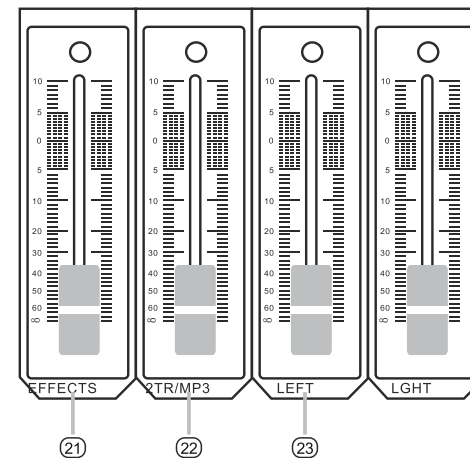


11. EFX PROGRAM KNOB  
Turn this knob to select different effect program. Short press to play/pause.
12. MP3 PROGRAM KNOB  
Turn this knob to select different tracks on the USB drive. Short press to confirm
13. MODE BUTTON  
Short press this button to select different mode.
14. PHANTOM POWER BUTTON  
Press this button when the phantom power supply is switched on. The phantom power supply is necessary for condenser microphones and is activated when using the Mic/Line input jack.

# Operating Instructions

## Control Elements and Connector

15. EFX SEND KNOB  
Adjust the strength of after-effect signal
16. EFX SEND SOLO BUTTON  
Press down this button if you want to monitor the audio output from this channel.
17. MON SEND KNOB  
Adjust the signal strength of MON jack
18. MON SEND SOLO BUTTON  
Press down this button if you want to monitor the audio output from this channel.
19. PHONE CTRLRM KNOB  
Adjust the signal strength of PHONES, CTRL-L and CTRL-R jacks
20. STEREO GRAPHIC EQUALIZER  
Equalizer provided for tone control and precise high quality sound over each frequency



21. EFFECT FADER  
Adjust the volume of effect signal
22. 2TR/MP3 FADER  
Adjust the volume of 2 track section or MP3 input signal
23. MAIN OUTPUT FADER (LEFT/RIGHT)  
Master fader to adjust the left and right output signal of the main output.