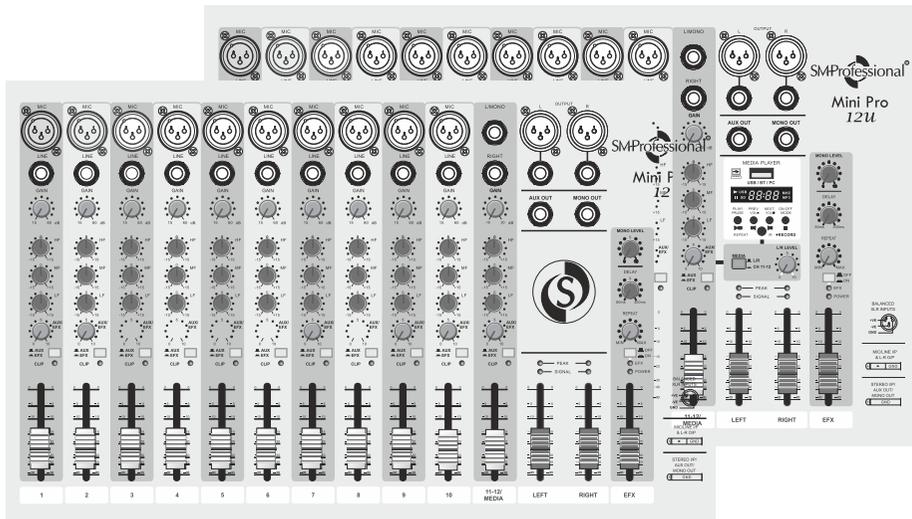


SMProfessional®

MINI PRO SERIES

MINI PRO 12 AND MINI PRO 12U



Index:

1.....Introduction

2.....Product Care Instruction

3.....Features at a Glance

4.....Input & Output Function

5.....Media player & PC interface Function

6.....Setting Up Bluetooth Connection

7.....Wiring Information

8.....Block diagram

9.....Technical Specifications

1. Introduction

Thank you for buying the SMProfessional Mini Pro series Mixer. To ensure maximum performance and safety, please follow this instruction manual carefully. Please retain this manual for future reference. For any complaints, feedback or testimonials please contact our distributor/dealer. Keep the cartons for future use in case the product require servicing/maintenance.

2. Product Care Instructions

- Do not drop the mixer; this could severely damage the products.
- Please keep the product away from direct sunlight & rain.
- Please keep this product away from heavy magnetic or electromagnetic fields, as they may affect its performance.
- Please Disconnect the product from the power supply when the product is not being used for a long time.
- Do not open any of the components yourself; for repairs please get in touch with your Studiomaster dealer.
- It is recommended to place the product in flight case while transportation.

3. Features at a Glance

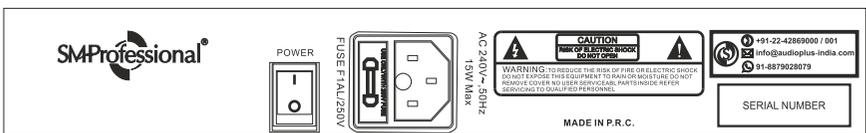
- Gain control and 3-band (Mini Pro 12 and 12U) EQ per channel.
- Built-in USB MP3 media player with wireless Bluetooth connectivity, record & Playback facility on Pen drive as well as on PC.
- Signal and clip LED indication for master level.
- Built-in echo/delay processor with unique e- delay.
- Clip LED indication per channel.
- Switchable gain & EQ between media player and stereo channel.
- 1 XLR and 6.3mm Balanced jack for each L & R main output 6.3mm unbalanced jack for Aux out and mono out.

Models Available:

- Mini Pro 12: 10 Mic /Line + 1 Stereo channel
- Mini Pro 12U: 10 Mic /Line + 1 Stereo channel + 1 Media Player

4 Input and output function

4.1 Rear panel

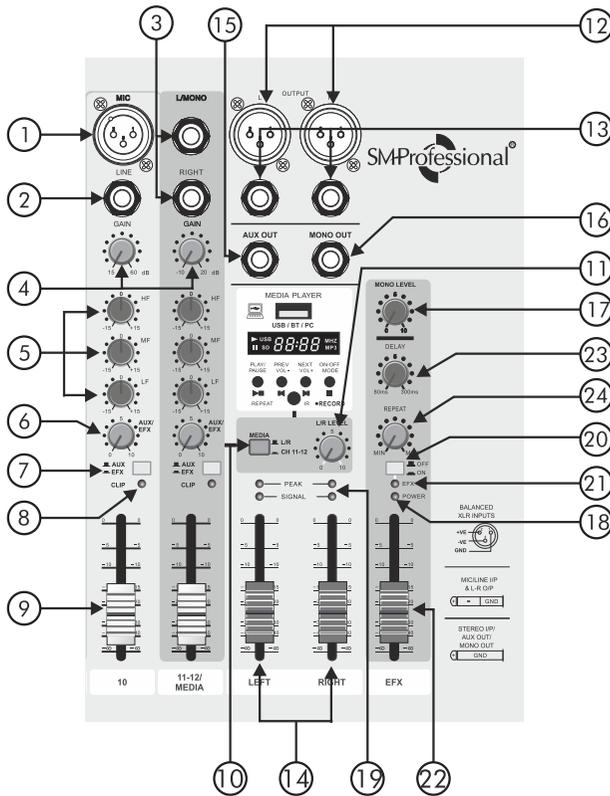


MINI Pro12, 12U
Rear Panel Artwork

1. Power (On/OFF) Switch : It is used to switch ON and OFF the mixer.

2. AC Inlet : Use the supplied AC cord to connect the unit to AC mains. The fuse can be accessed by the small drawer at the AC inlet. To change the fuse, unplug the AC cord first, pull out the fuse drawer & replace the fuse ONLY with a fuse of the same voltage & rating. If the fuse blows again after replacement, hand over the unit to qualified service personnel. Please refer to the technical specification on page no 11 for fuse ratings.

4.2 Front Panel



The input sections of the MINI Pro series mixer have two connectors XLR MIC & 1/4" Jack inputs.

⚠ Please do not use both the inputs at the same time. Doing this may permanently damage the mixer.

1. **MIC Inputs:** This is an electrically balanced XLR input designed to accept low impedance balanced signals from microphones.

2. **Line Inputs:** The line input will accept line level balanced signal using 1/4" stereo (TRS) Jack. The line input is designed for instruments like Keyboards, Guitars, Drum Machines & other electronic instruments.

Balanced XLR		Balanced TRS	
Pin 1	Ground	Tip	+ve Phase
Pin 2	Hot (+ve Phase)	Ring	-ve Phase
Pin 3	Cold (-ve Phase)	Sleeve	Ground

Note: Both above Inputs can accept unbalanced input also with quasi-balanced cable (pin 2-signal, pin 1 & 3 shorted-GND)

3. **Stereo Input:**

A. **LEFT/MONO:** It is Unbalanced 1/4" Mono jack input suitable for high impedance sources. This input may also be used as mono line input by plugging into the left/mono socket only.

B. **RIGHT:** It is Unbalanced 1/4" Mono jack input suitable for high impedance sources. The input fed to this channel is routed to right channel only.

4. **Gain Control:** This knob is used to control gain of both MIC/Line and stereo/media player input signals.

⚠ Please do not operate at high gain levels as this distorts the signal & leads to audio clipping.

5. **EQ Section:** The MINI Pro series has a 3-band equalizer on the MINI Pro 12 and 12U. The EQ is designed to be easy yet effective to use. It can be used to cut or boost unwanted frequencies to achieve a particular tone, or to eliminate any unpleasant characteristics.
 - **HF Control:** The HF control allows you to cut or boost up to $\pm 15\text{dB}$ at 10kHz.
Tip: This frequency band can be used to brighten up high frequencies.
 - **MF Control:** The MF control can be used to cut or boost the sound by up to $\pm 15\text{ dB}$ at 2.5 kHz.
Tip: This frequency band can be used to enhance presence in vocals.
 - **LF Control:** The LF control can be used to cut or boost up to $\pm 15\text{dB}$ at 100Hz.
Tip: This frequency band can be used to get a punchy bass response.
6. **AUX/EFX Control:** This knob adjusts the send level to the AUX or the built-in effects (EFX) section.
7. **AUX/EFX Switch:** When the switch is in released condition the signal is sent to AUX and when pressed the signal is sent to built-in effects (EFX) section.
8. **Clip LED:** This clip LED glows when the incoming audio signal is clipping. Please reduce gain levels to avoid distortion of clip Led is glowing.
9. **Channel Control Fader:** This control adjusts the level of the channel's signal being sent to the master output.
10. **CH/Media switch:** This switch is used to enable or disable routing of light signal/media player signal to main output.
 - **Line:** The line signal will be routed to the main output through stereo channel & media player signal will directly route to main output.
 - **Media:** The media player signal will be routed to the main output through stereo channel.
11. **L-R Level control:** This knob is used to control the signal level of the media output.

4.3 Output Section

12. **Main Out (XLR):** This output XLR is used to connect the Main output using balanced XLR connectors. The output level is determined by the Main output fader. This is a servo balanced output so you can connect either balanced or unbalanced cables without affecting the output level.
13. **Main Out (Jack):** This output is used to connect the master output of the mixer to the amplifier or powered speakers using XLR/6.3mm balanced jack connector.
14. **Master (L/R) Control:** The Left & Right Control are the master output level control. They determine the level of all signals going to output connector.
15. **AUX Out:** This Unbalanced 1/4" Mono jack are used to send the signal to external devices such as effects units or stage monitors.
16. **MONO Out:** This Unbalanced 1/4" Mono jack output is provided to connect to external auxiliary devices or monitor amplifiers.
17. **MONO Control:** This knob is used to control Mono output level.
18. **Power LED:** This Red LED Indicates that unit is powered ON.
19. **Signal/Peak LED:** Signal LED(Green) glows when output is below clip level. Clip LED (Red) glows when the output signal is clipping.



Balanced XLR	
Pin 1	Ground
Pin 2	Hot (+ve Phase)
Pin 3	Cold (-ve Phase)

Balanced TRS	
Tip	+ve Phase
Ring	-ve Phase
Sleeve	Ground

Un-Balanced TRS	
Tip	Signal +ve Phase
Sleeve	Ground



Please reduce gain level till the Clip LED start glowing to avoid distortion and signal clipping.

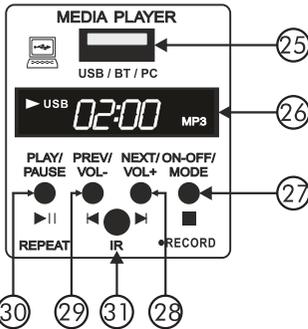
4.4 Effects Section

20. **EFX On Switch:** To switch ON/OFF the Effects.
21. **EFX LED:** This LED glows when EFX is selected.
22. **EFX Fader:** To control the output level of Effect signal.
23. **Delay:** This control adjusts the delay time. Turning the knob clock wise will make the delay time longer.
24. **Repeat:** This control adjusts the feedback amount [the number of repetition for the delay sound (echo)]. Turning the knob clock wise increases the number of repetition.



5. Media Player and PC Interface function.

5.1 Media Player Section (Only for Mini Pro U series)



This Mixer Mini Pro U version has provision of a built-in MP3 player (USB plug & play).

25. USB Input : USB input channel.

Terms of use : SMPProfessional respects intellectual property rights and we request our users to do the same.

Please use Mp3 downloads only for program which you have legally purchased. PLEASE DO NOT USE PIRATED MUSIC OR PROGRAM.

26. Display: The seven segment display is provided to visualize all media player operation.

27. On-Off/Mode Selection:

- Long press to switch the media player On/Off.
- USB is the default mode.
- Single press to switch between the USB, Bluetooth mode (BT) and record mode.

On remote:

- ⏻ To switch media player On/Off.
- ⏪ Single press to switch between the USB, Bluetooth mode (BT) and record mode.

28. ▶ Next/Vol+:

- Single press to go to the next track.
- Long press to increase the volume of the media player.

On remote:

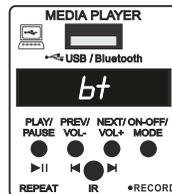
- ⏩ To increase the volume of the media player.
- ▶ Single press to go to the next track. long press to forward the audio.



Media Player Off



Media Player On/
USB Mode



Bluetooth Mode



Record Mode



Volume +



Next Track

29. Prev./Vol-:

- Single press to go back to the previous track.
- Long press to decrease the volume of the media player.

On remote:

- To Decrease the volume of the media player.
- Single press to go to the Previous track. long press to reward the audio

30. Play/Pause/Repeat:

- Single press to play and pause.
- Long press to change the repeat mode from single to all tracks.

On remote:

- To play and pause the audio track.
- To change the repeat mode from single to all tracks.

31. IR Sensor: The IR sensor for the supplied remote control.

Remote Features:

26. **Mute:** Press the switch to mute the audio track.

27. **EQ:** Press the switch to select below effects to the audio track.

- Jazz (JAZ)
- Pop (POP)
- Normal (Nor)
- Classic (CLA)
- Rock (rOC)
- Cut (Cut) - Bypass low frequencies

28. **U/SD:** Not Active.

29. **0-9:** Press switches to directly play track within the library.

Note: Remote control range is about it 6-8 meters insight.

(Please insure that the remote batteries are fully charged).

How to record an audio track:

- 1) Connect a USB stick to an USB socket.
- 2) Press Mode switch and select record (rec) option).
- 3) Press play/pause switch to start recording and press it agin to continue recording.
- 4) Press play / pause switch to pause the recording.
- 5) Long press play/pause switch to stop the recording.



Volume -



Previous Track



Single Track Repeat



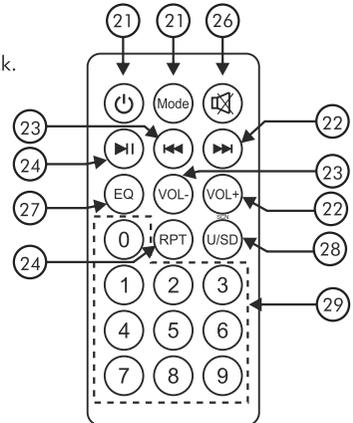
All Track Repeat



Play Mode



Pause Mode



Record Mode



Recording Paused



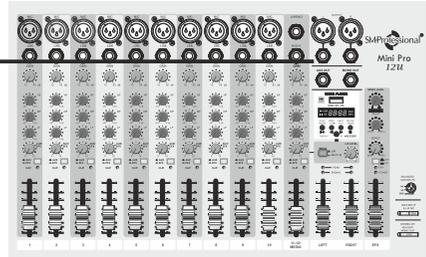
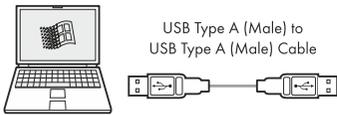
Recording On

5.2 Using USB Audio Interface

The Mini Pro U series Mixer has a built-in USB audio interface with plug & play connectivity for recording and playback using a PC/laptop and DAW (Digital Audio Workstation). The audio interface is class-compliant and does not require any device drivers to be installed. With this feature, users can connect multiple inputs, record them and get creative with their mixes. The Mini Pro U series Mixers is an ideal choice for musicians, podcasters, content creators, YouTubers, e-learning trainers, audio conferencing and host of different applications.

Requirements

1. SMProfessional Mini Pro 12U Mixer.
2. USB Type A (Male) to USB Type A (Male) Cable.
3. PC/Laptop Running Windows 7 or Above.

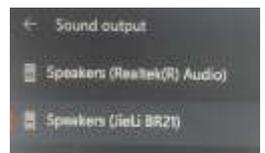


Note

- The mixer cannot be bus-powered via USB. Always use the included power adaptor to supply power to the mixer.
- Although the USB interface in this mixer is class-compliant and no separate drivers are required, some PCs/Laptops may require basic WDM (Windows Driver Model) audio drivers to be installed. Kindly check with your PC / laptop manufacturer for any assistance on this. SMProfessional cannot be held responsible for any performance and incompatibility issues faced by the customers due to this.

Installation Steps:

1. **Connection:** Connect your mixer to a PC/Laptop using a USB Type A (Male) to USB Type A (Male) cable as shown in the diagram above. This enables a stereo signal to be sent to and from your mixer and PC/Laptop. The signal sent from the mixer to the PC/Laptop is the same as the master bus. The audio returning from the computer into the mixer appears directly in the master output.
2. **Audio Device Settings:** Find the audio device "**Speakers (JieLi Br21) / Mp3-Audio Spker**" (if you are using the rear panel audio interface using a USB Type A (Male) to USB Type B (Male) Cable) OR "**MP3-Audio**" (if you are using the front panel audio interface using a USB Type A (Male) to USB Type A (Male) Cable) in your PC/Laptop's hardware/device manager and change the input and output settings as required (However, some legacy PCs/Laptops (Windows 7 and Older) may display it differently) For best results, we recommend making the Mini Pro 12U Mixer as your default audio device while recording and playback. For any further assistance, please go through the documentation of your PC/Laptop.



6. Setting Up Bluetooth Connection

- Single press the mode switch to switch from USB to BT mode.
- From your phone or any of the Bluetooth device turn Bluetooth ON & search for device “MP3-Audio”. Pair and connect to it.
- Now any music or audio you play on your device will be played through, Media player the music can be controlled (Play, Pause, Volume+ & Volume -, Reverse & Forward) by either your device or controls on the panel.

Reconnecting Your Device

If you move out of range or turn off the Bluetooth feature on your mobile device, the Bluetooth Receiver will get disconnected from your device. To reconnect, click on the device name “MP3-Audio” on your paired device list.

Changing Connected Device

If you want to switch from one device to another, follow these steps:

- 1) End the existing Bluetooth connection from your device by either disconnecting within your “settings” or turning off Bluetooth.
- 2) The “MP3-Audio” Bluetooth can now be connected to a different BT device.
- 3) Follow the directions in “Setting up your Bluetooth Connection”.

ATTENTION: 1) Please ensure that there isn't any obstruction between Bluetooth Transmitter (Mobile phones) and Receiver (Mini Pro U Mixer).

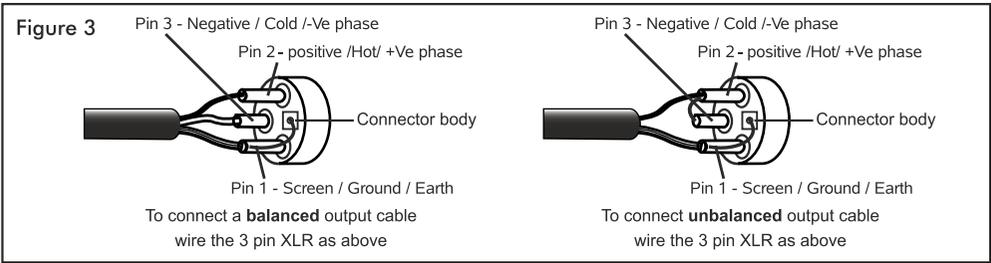
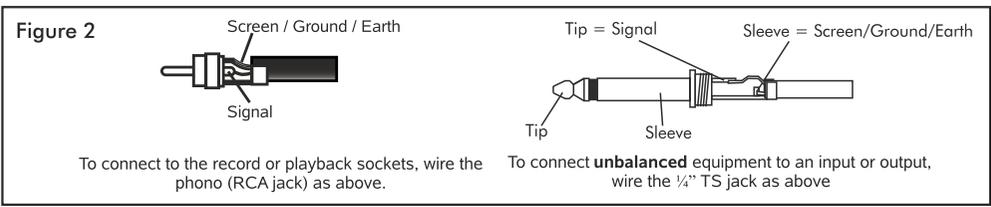
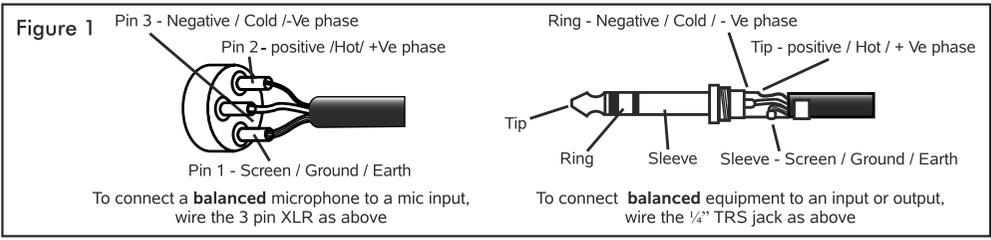
Out of Range or Lost Signal

If the music device (Mobile phones) is out of range (beyond 17 feet) of the Bluetooth Receiver (Mini Pro 12U Mixer) or if there is something blocking the Bluetooth signal, which shall be indicated by loss of audio or audio intermittency. To avoid a lost connection, move the music device back into range (within 17 feet), or reduce obstruction between the receiver and your smart phone. The connection will automatically be reestablished & audio signal will be through. If the connection does not restore you will need to establish it again as mentioned in “Setting up your Bluetooth Connection”.

• Troubleshooting Bluetooth Connection

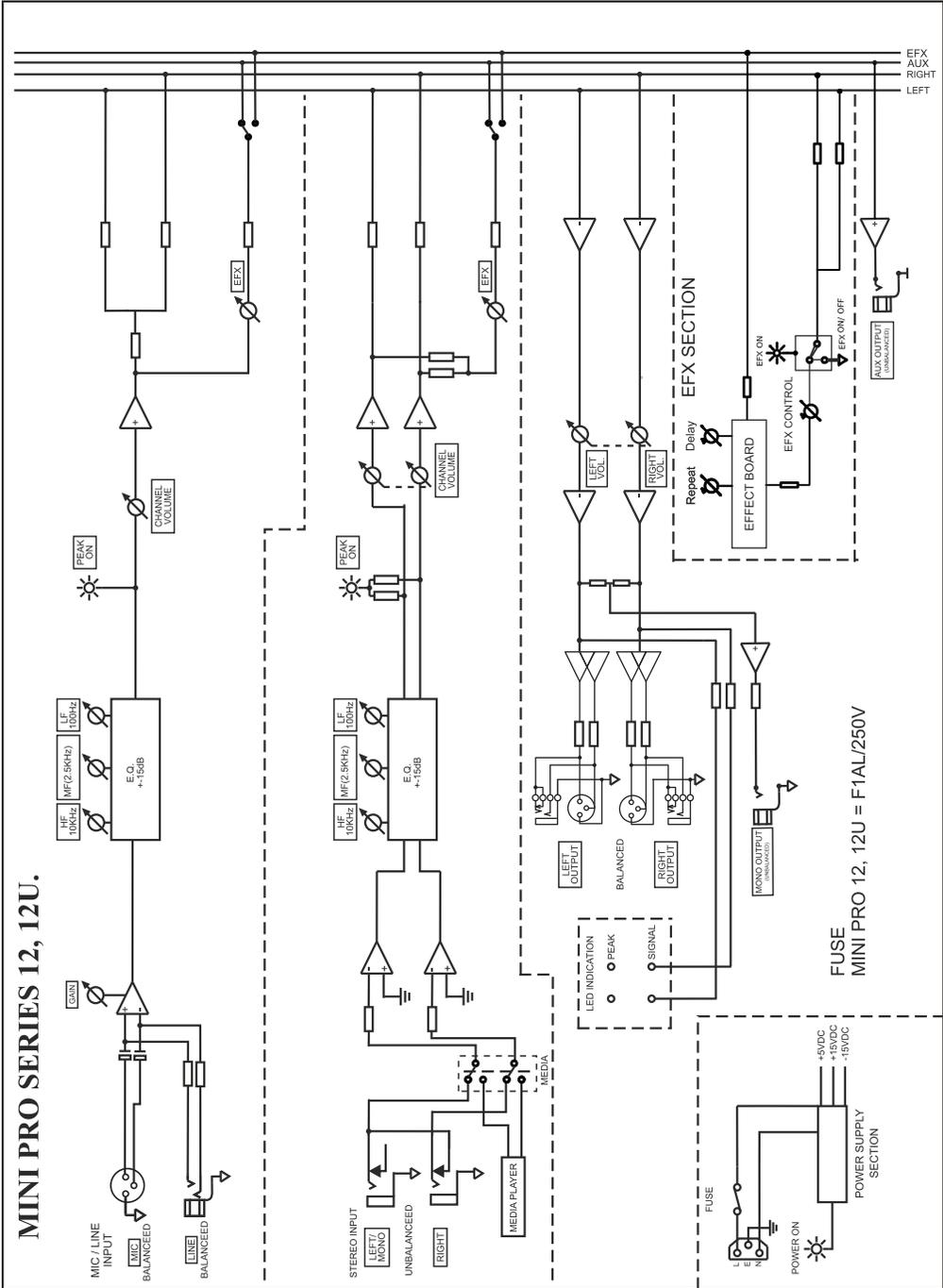
PROBLEM	POSSIBLE SOLUTION
Paired Bluetooth device does not connect	Already connected to other BT device. Disconnect from it and pair & connect again.
	Make sure USB mode is selected on Mini Pro 12U mixer.
No or poor audio from Bluetooth connection	Move your BT device away from devices that generate electromagnetic interference, such as microwave ovens, cordless phones, WIFI networks or other Bluetooth device.
	Make sure that the BT module on the Mini Pro 12U Mixer is not muted (paused) and the volume is up.
Cannot pair the speaker with your Bluetooth device	Make sure your Bluetooth transmitting device is playing audio & the volume is down.
	Your Bluetooth device may be out of the specified range, try moving it closer to the speaker.
	Make sure that you work within the Bluetooth range of 17 feet, taking care that there is no metal or human body interference.
	Make sure you selected “MP3-Audio” in the pairing list on your device to finalize the connection. (required by some devices)
	Your Bluetooth device may be out of range-try moving it closer to the Mini Pro 12U Mixer.
Already paired to other BT device. Unpair from it and then pair & connect again.	

7. Wiring Information



WARNING : - If the power plug supplied with this equipment doesn't fit the power supply socket in your area, please consult the dealer from whom the equipment has been purchased. Please ensure use of correct plug to support appliance earthing.

8. Block Diagram



9. Technical Specifications

Maximum Gain	
Mic Input	48dB
Line Input	48dB
Stereo Input	30dB
T.E.I.N	
Mic Input (150 Ω Source)	-128dBm (DIN AUDIO)
Line Input (40 Ω Source)	-98.5dBm (DIN AUDIO)
Signal/Noise Ratio	-64dB
Clip Indication	-4dB prior to true clip.
Equalisation	
Treble	± 15 dB @ 10kHz
Mid	± 15 dB @ 2.5kHz
Bass	± 15 dB @ 100Hz
Left/Right Outputs Unbalance	
Nominal Level	0dBu (0.775 VRMS)
Maximum Level (1kHz/600 Ω Load)	+15dBu (4.35 VRMS)
Frequency Response	25Hz to 19KHz (+0/-1dB)
Impedance	
Mic Input	Typically 5K Ω
Line Input	20K Ω (Balanced) / 10K Ω (Unbalanced)
L/R Outputs	Less than 50 Ω

Model	AC Mains	Fuses	Dimensions (W x D x H) mm	Net Weight (Kg)
Mini Pro 12	240V	F1A/250V	426 x 180 x 57	2.5
Mini Pro 12U				

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