

# STATUTORY INFORMATION/ PRECAUTIONS

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The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of “un-insulated dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



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

## IMPORTANT SAFETY INSTRUCTIONS

1. Read and follow these instructions.
2. Do not use this apparatus near water.
3. Clean with dry cloth only.
4. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
5. Do not install near any heat sources such as radiators, stoves, or other apparatus (including amplifiers) that produce heat.
6. Do not defeat the safety purpose of the polarized or grounding-type plug. A grounding type plug has two poles and a third grounding pole. The thick pole is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the outlet
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
8. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
9. Unplug this apparatus during lightning storms or when unused for long periods of time.
10. 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.

### WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE

## BEFORE YOU GET STARTED

Your mixing console was carefully packed in the factory to guarantee safe transport. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage, which may have occurred during transit.

If the unit is damaged, please notify your dealer and the shipping company immediately, otherwise claims for damage or replacement may not be granted.

## INTRODUCTION

The SMX Series of mixers are compact live sound mixing consoles. Focus is on providing the engineer with a variety of features like additional mic inputs, multiple aux, global and local EQs, and subgroups. Input connectivity on BT and USB are available with record output to onboard USB. In a slim, compact form-factor, the SMX is an excellent console for small events where sound quality is paramount.

## FEATURES

- High-Performance small format analogue mixers with onboard effects
- Mic preamps with low noise performance
- EQ with sweep-able mid-bands per channel
- Bluetooth to connect tab or phone
- USB rec and playback
- 32bit 42kHz Effects Engine featuring Reverbs, Delays, Choruses and Modulations
- Trim Limiters on input channels
- Combo inputs for guitars, basses and other instruments
- Hi-Pass Filters (low-cut) and 48V Phantom Power on all mic channels (12 and 16 channel)
- Smooth premium-quality faders
- Robust polymer lightweight construction for tour-grade build quality and reliability
- Internal universal power supply
- DC 5V lamp connector
- +48V phantom power
- XLR balanced outputs

## INITIAL OPERATION

- Be sure that there is enough space around the unit for cooling purposes and to avoid over-heating. Do not place your mixing console on high-temperature devices such as radiators or power amps.
- The console is connected to the mains supply via the supplied cable.
- The console meets the required safety standards.
- Blown fuses must be replaced only by fuses of the same type and rating.
- Note that all units must be properly grounded. For your own safety, you should never remove any ground connectors from electrical devices or power cables, or render them inoperative.

## CONNECTORS

XLR-type connectors are wired as follows (IEC60268 standard): pin 1: ground, pin 2: hot (+), pin 3: cold (-).

# MAIN FEATURES

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## HIGH-QUALITY OPERATIONAL AMPLIFIERS

Mono input channels are equipped with discrete microphone preamplifiers. The pre amplifier features circuit used in high-end audio devices. This circuit uses multi-stage amplifiers to ensure high current and low impedance, for an audio texture with crispness and richness in the low and mid frequencies.

Combined with the specially-designed operational amp, the overall result is full-bodied reproduction of low frequencies as well as sustained high frequencies. Input channels feature combo jacks, which can accept both XLR and TRS connectors. In addition, Trim control allows line level input to accommodate a wide variety of instruments

## BUILT-IN UNIVERSAL SWITCHING POWER SUPPLY

The SMX 1008 features a universal switching power supply. This power supply supports input voltages of 100 V to 240 V, for stable operation even in environments where power voltage fluctuates easily. An AC inlet allows simple installation in environments where portability is required

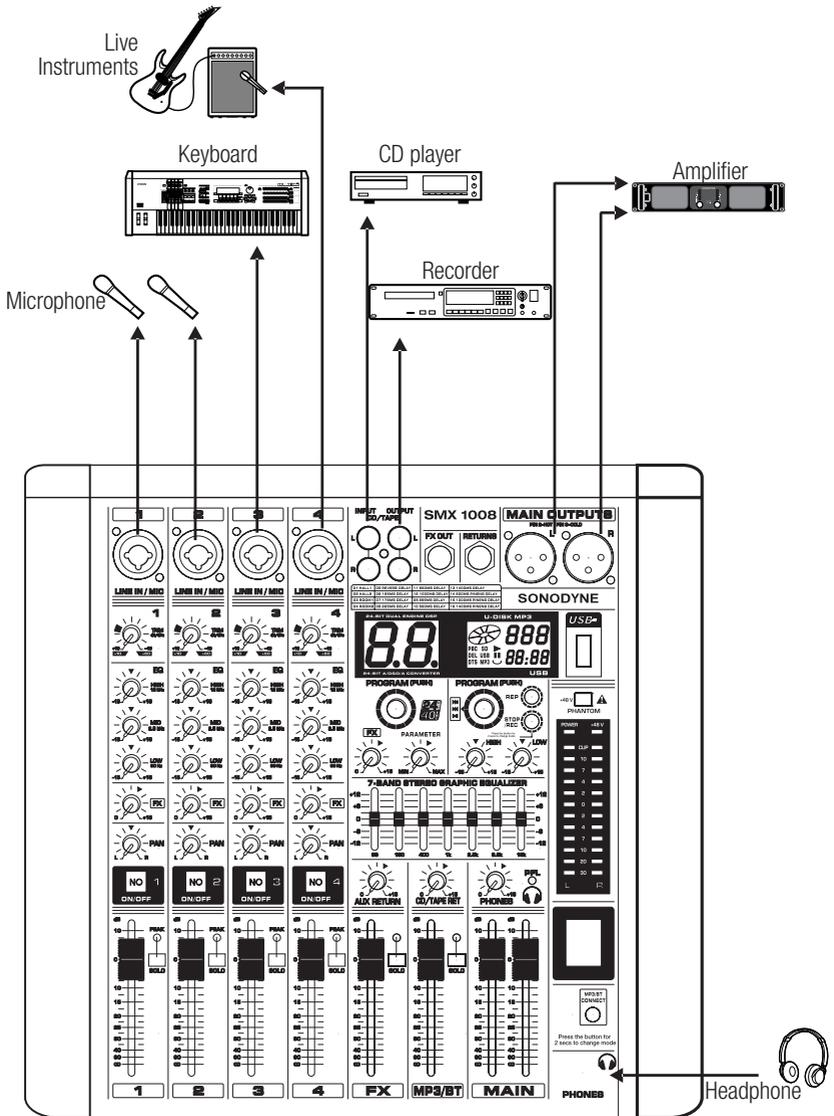
## 16 HIGH-QUALITY DIGITAL EFFECTS

The SMX 1008 features 16 built-in effects that are based on DSP FX

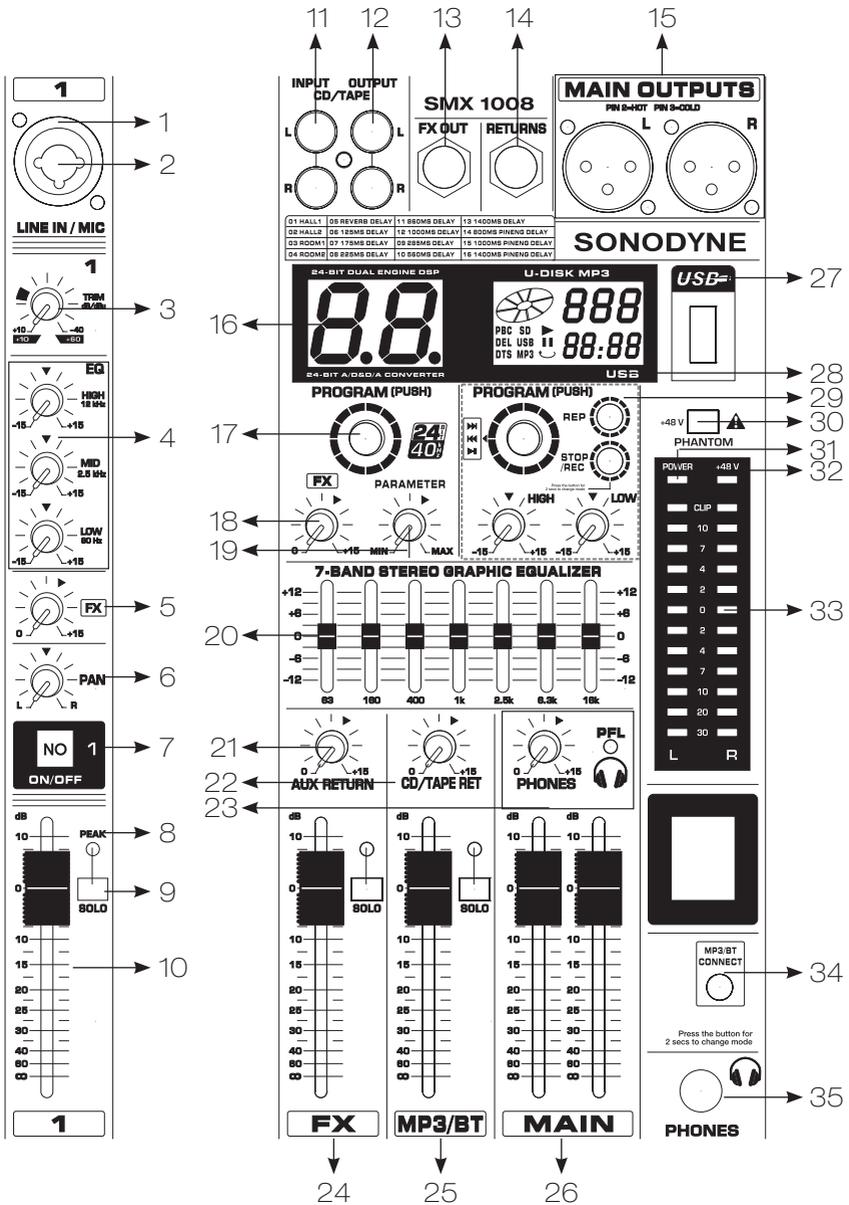
## ADDED FEATURES

- USB playback
- USB Recording
- Global Equalizer
- Bluetooth Playback

# CONNECTION DIAGRAM



# CONNECTION DIAGRAM



# SWITCHES

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1. **MIC INPUT JACKS:** These are balanced XLR-type microphone input jacks. (1: Ground; 2: Hot; 3: Cold)
2. **LINE INPUT JACKS (mono channels):** These are balanced TRS phone-jack line inputs. (T: Hot; R: Cold; S: Ground). You can connect either balanced or unbalanced phone plugs to these jacks
3. **TRIM CONTROL** adjusts the input signal level. To get the best balance between the S/N ratio and the dynamic range adjust the gain, so that the PEAK indicator (9) lights only occasionally and briefly on the highest input transients. The -60 to +10 scale is the MIC input adjustment range. The 40 to +10 scale is the LINE input adjustment range.
4. **EQUALISER (High, Mid and Low):** This three-band equalizer adjusts the high, mid and low frequency bands of the corresponding channel. Setting the knob to the "0" position produces a flat response in the corresponding band. Turning the knob to the right boosts the corresponding frequency band, while turning to the left attenuates the band
5. **FX CONTROL:** The aux send marked FX offers a direct route to the built-in effects processor and is therefore post-fader and post-mute
6. **PAN CONTROL:** The PAN control determines the position of the channel signal within the stereo image
7. **ON/OFF SWITCH:** Turn this switch on to send signal to the buses. The switch lights orange when on
8. **CLIP LED:** This LED lights up when the input signal is driven too high. If this happens, back off the TRIM control and, if necessary, check the setting of the channel EQ
9. **SOLO SWITCH:** The SOLO switch is used to route the channel signal to the solo bus (Solo In Place) or to the PFL bus (Pre Fader Listen). This enables you to listen to a channel signal without affecting the main output signal. The signal you hear is taken either before the pan control (PFL, mono) or after the pan and channel fader (Solo, stereo)

# SWITCHES

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10. CHANNEL FADER adjusts the level of the corresponding mono channel. Use these faders to adjust the balance between the various channels
11. CD IN JACKS: These RCA jacks input a stereo sound source. Use these inputs when you want to connect a CD player
12. REC OUT (L, R) JACKS: These RCA jacks can be connected to an external recorder such as an MD recorder in order to record the same signal that is output via the STEREO OUT sockets
13. FX OUT JACKS: The FX OUT jacks carry the master aux mix (from the channel's FX controls). You can connect this to an external effects device to process the FX bus. The processed signal can then be brought from the Effects device back into the STEREO AUX RETURN jacks
14. STEREO AUX RETURN JACKS: The STEREO AUX RETURN jacks generally serve as the return for the effects mix (created using the post-fader aux sends) by connecting the output of an external effects device. If only the left jack is connected, the AUX RETURN is automatically switched to mono
15. MAIN OUT (L, R) JACKS : These jacks deliver the mixer's stereo output. You can use these jacks, for example, to connect to the power amplifier driving your main speakers
16. EFFECTS DISPLAY: There are 16 different types of Effects each denoted by a number printed on the panel. This number is shown by the display
17. PROGRAM DIAL: You can select the Effect preset by turning the PROGRAM control. The display flashes with the number of the current preset
18. FX varies the intensity of the effects

# SWITCHES

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19. **PARAMETER** adjusts the parameter (depth, speed, etc.) for the selected effect. The last value used with each effect type is saved
20. **7-BAND STEREO GRAPHIC EQUALIZER:** This stereo graphic equalizer allows you to tailor the sound to the room acoustics
21. **STEREO AUX RETURN1 CONTROL** Adjusts the level at which the signal received at the RETURN jacks (L (MONO) and R) is sent to the STEREO L/R bus
22. **CD/TAPE CONTROL** adjusts the level of the CD IN jacks. Computer, Tape audio input and sound control
23. **PHONES/CTRL ROOM CONTROL:** Use this control to adjust the control room output level and the headphones volume
24. **FX SEND FADER:** This is the master control for the Effects level
25. **MP3/BT FADER** adjusts the level of MP3/BT
26. **MAIN MIX FADER:** This is the master level control for the MAIN OUTS
27. **MP3 USB JACK:** Connect a flash drive to this socket for playing MP3 audio files. This is a host USB player
28. **MP3 DISPLAY:** Shows various information about audio files being played like track number, name of the track, etc

## 29. MP3/BT SWITCHES:

- STOP/REC: To record to USB flash drive, press the STOP/REC switch for 2 seconds and recording will start. Press again the STOP/REC for 2 seconds to STOP recording. File will be automatically saved in the USB flash drive.
- PLAY JOG SWITCH: Press the switch to pause or play track.  
Rotate clockwise to select next track shown in display  
Rotate anticlockwise to select previous track  
You can select the Mp3 tracks by turning the JOG Switch.
- PROGRAM DIAL: Displays the MODE : USB Playback with Tracks  
USB Recording  
Bluetooth
- REPEAT SWITCH: Press this switch to repeat all tracks or a single track.

30. PHANTOM +48 V SWITCH: This switch toggles phantom power on and off. When the switch is on the mixer supplies +48V phantom power to all channels that have XLR mic input jacks

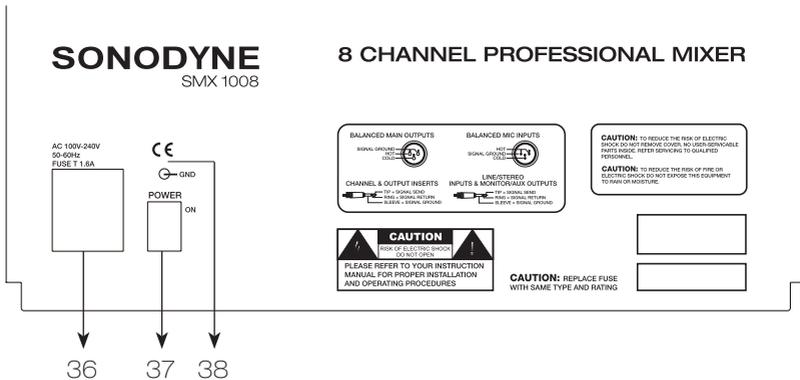
31. POWER INDICATOR: This indicator lights when power to the mixer is switched on

32. 48V INDICATOR: The red "48V LED" lights up when phantom power is switched on. Phantom power is required to operate condenser microphones

33. LEVEL METER: Shows the level of signal. The "0" segment corresponds to the nominal output level. The PEAK indicator lights when the output reaches the clipping level

34. BT: Press SWITCH for two seconds, the Signal LED will blink.  
Using mobile phone or tablet or pc, go to the BT device list and search for MIXER-01 to pair.  
Blinking stops when device is paired.  
Press the SWITCH again for 2 sec to disconnect BT.  
Restart BT to pair to another mobile phone or tablet PC

35. PHONES JACK: Connect a pair of headphones to this TRS phone-type output jack.

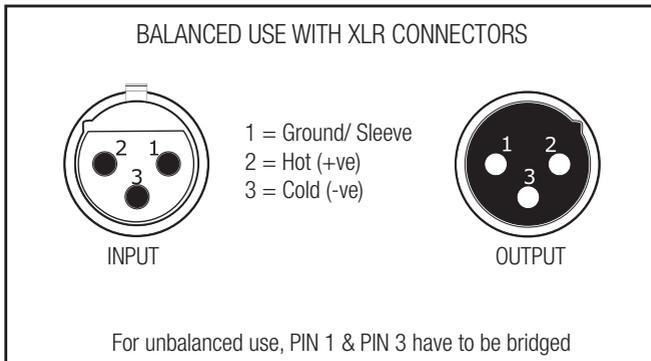


36. **FUSE HOLDER/IEC MAINS RECEPTACLE:** The console is connected to the mains via the cable supplied, which meets the required safety standards. Blown fuses must only be replaced by fuses of the same type and rating. The mains connection is made via a cable with IEC mains connector. An appropriate mains cable is supplied with the equipment.
37. **POWER SWITCH:** Use the POWER switch to turn on the mixing console. The POWER switch should always be in the “Off” position when you are about to connect your unit to the mains. To disconnect the unit from the mains, pull out the main cord plug. When installing the product, ensure that the plug is easily accessible.
38. **GND CONTACT:** GND in order to avoid leakage.

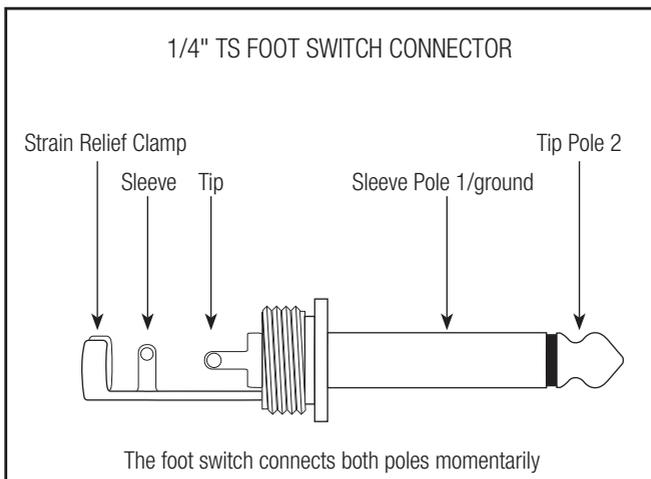
# CABLE CONNECTIONS

The illustrations below show the wiring of these cables. Be sure to use only high-grade cables.

## XLR CONNECTIONS



## FOOT SWITCH CONNECTOR

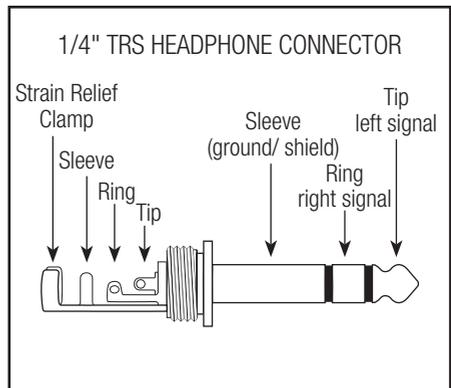
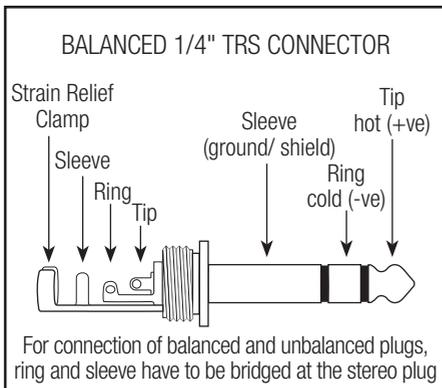
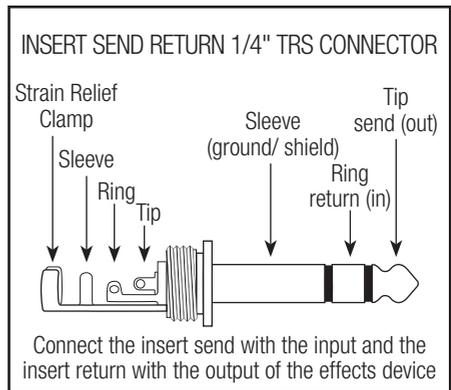
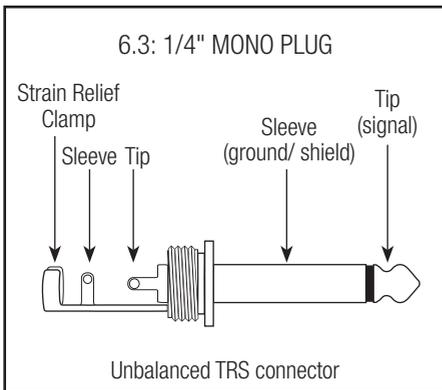


# AUDIO CONNECTIONS

Use commercial RCA cables to wire the 2-track inputs and outputs.

You can also connect unbalanced devices to the balanced input/outputs. Use either mono plugs, or use stereo plugs to link the ring and shaft (or pins 1&3 in the case of XLR connectors).

**CAUTION! You must never use unbalanced XLR connectors (PIN 1 and 3 connected) at the MIC input jacks if you want to use the phantom power supply.**



# TROUBLESHOOTING

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Power does not come on

- Is the mixer connected to an independent power source (generator, etc.) or a power strip with switches?  
Check that the power of that device is turned on

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No output

- Are external instruments (including microphones) and speakers connected correctly?
- Are your cables shorted?
- Are the [GAIN] knobs for each channel, channel faders, [STEREO] master fader, and [GROUP] faders adjusted to appropriate levels?
- Are the channel on/off switches pressed?

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Sound is low, distorted, or noisy

- Is the microphone connected to a [MIC] jack or a [MIC/LINE] jack?
- When using a condenser microphone, is the [PHANTOM +48V] switch turned on?
- Is the output signal level for the instrument connected to the mixer appropriate?
- When connecting an instrument with an output level of +4dBu, either turn down the TRIM control on a mono input channel or use a stereo input channel.
- Where an input channel provides both a XLR input jack and a phone input jack, or a phone input jack and an RCA pin jack, are there connections made at both jacks? Use only one of these jacks
- Are the [GAIN] knobs for each channel, channel faders, [STEREO] master fader, and [GROUP] faders adjusted to appropriate levels?
- Are effect or compressor levels too high? Use the [FX] knob, [FX RTN] fader, [FX RTN LEVEL] knob, and [COMP] knob to lower their levels

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Effects cannot be applied

- Are the [FX] knobs for each channel adjusted to appropriate levels?
- Are the [PARAMETER] knob and [FX RTN] fader adjusted to appropriate levels?

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Voices are not clear

- Is the equalizer ([HIGH]/[MID]/[LOW]) adjusted appropriately?

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Left and right levels are different for a stereo signal input

- Is [PAN] set to the center? If panned to the center, try reversing the left and right input connections. If, after switching the left and right connections, the side with the low volume level also switches, check the instrument or device that is the source of the signal.
- Are you using the same type of cable to connect both the left and right input signals? Cables with built-in resistors will attenuate the signal

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The level meter does not show the output signal

- Are the PFL switches for the channels that you are not using tuned on?

# SPECIFICATIONS

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INPUT MONO (MIC/LINE)	6
INPUT STEREO	1
OUTPUT MAIN	2
OUTPUT AUX	
OUTPUT GROUP	
GRAPHIC EQ	7 band stereo, switchable
EQ HIGH	Gain $\pm 15$ dB, Frequency 12kHz shelving
EQ MID	Gain $\pm 15$ dB, Frequency 2.5kHz peaking
EQ LOW	Gain $\pm 15$ dB, Frequency 80Hz shelving
LOW CUT	
EFFECTS	16 effects, DSP based
BT/USB PLAYBACK	Yes
RECORD TO USB	Yes
FADERS	Individual channel, Effects master, MP3 master, Main L, R fader, 60mm
LEVEL METER	12- digit, peak-reading LED level meter
PHANTOM POWER	Global
OTHER FEATURES PER CHANNEL	Mute and solo switch for each channel
MIC EIN, 50 $\Omega$ SOURCE RESISTANCE, 20Hz~ 20kHz	-133dB
FREQUENCY RESPONSE + 0, - 1dB	10Hz ~ 90kHz
THD	0.004% A-weighted
SNR	110dB, A-weighted, +22dB gain
MAX OUTPUT LEVEL	+22dBu
POWER REQUIREMENT	230V AC 50Hz
POWER CONSUMPTION	30W
DIMENSION H X W X D (MM)	120 x 360 x 360

*Due to continuous improvements, all specifications are subject to change*

# **SONODYNE<sup>®</sup>**

A product of the Mukherjee Innovation Centre



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