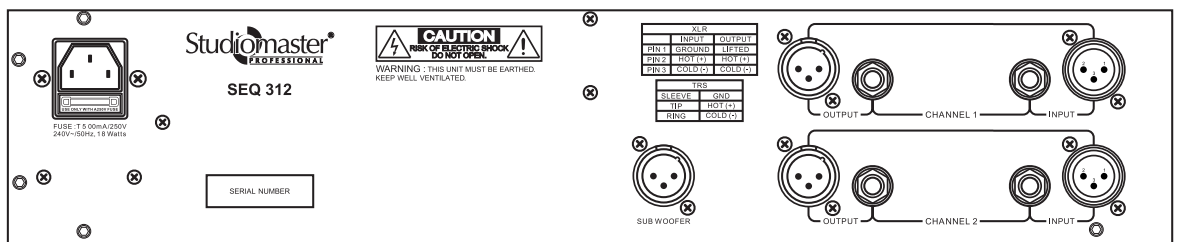
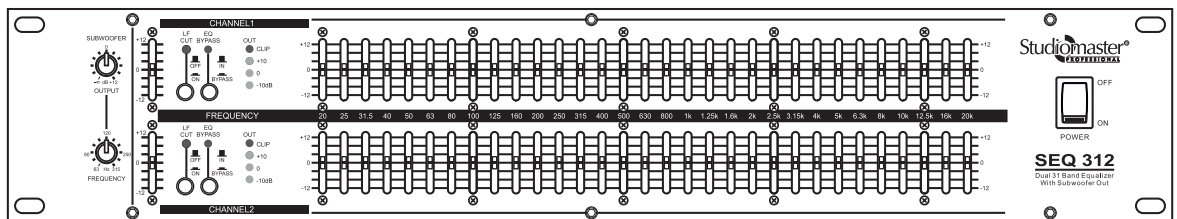


# Stu**diomaster**<sup>®</sup>

## PROFESSIONAL

# SEQ 312

## Professional Stereo Graphic Equalizer



Thank You for purchasing the StuDiomaster Professional SEQ 312, Dual 31-Band stereo graphic equalizer. To ensure maximum performance and safety, please follow this instruction manual carefully. Please retain this manual for future reference. For any complaint, feedback or testimonials please contact our Distributor / Dealer.

1.....	Introduction
2.....	Safety Instructions
3.....	Operation
4.....	Technical Specifications
5.....	Setup Diagrams

### 1. Introduction

- Professional Dual 31-Band stereo graphic equalizer with Constant Q factor.
- Range setting switchable between +12dB/-12dB to give a gradual variation as required.
- High Quality Double Sided PCB made using SMT Technology.
- LF Cut & Bypass Switches.
- Durable & Accurate 20mm Fader.
- Separate Sub Out with selectable frequencies.
- Balanced & Unbalanced I/O connectors.
- Sleek 2U, 19" inch rack mountable design.

## 2. Safety Instructions

**CAUTION:** To reduce risk of electrical shock, do not remove the cover.

There are no serviceable parts inside the device. Maintenance & service operations are only to be carried out by authorized dealers.



**WARNING:** To reduce the risk of fire or electrical shock, do not expose this appliance to rain or moisture.:



This symbol indicates that dangerous voltage constituting risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

- If the device has been exposed to extreme temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation might damage your device. Leave the device switched off until it has reached room temperature.
- The voltage and frequency must be the same as stated on the device. Wrong voltages or power outlets can lead to damage of the device & fatal electrical shock.
- Always plug in the power plug last. Make sure that the plug is connected properly to the outlet.
- All operation & user instruction should be followed.
- The product should be kept away from water & moisture.
- Make sure the product is always well ventilated keep it away from extreme heat or cold.
- Make sure the power cord should be routed so that they do not get pinched & get subject to wear or tear.
- Always use a dry cloth to clean the product.
- Do Not drop the product, as it may cause the product to mal-function.

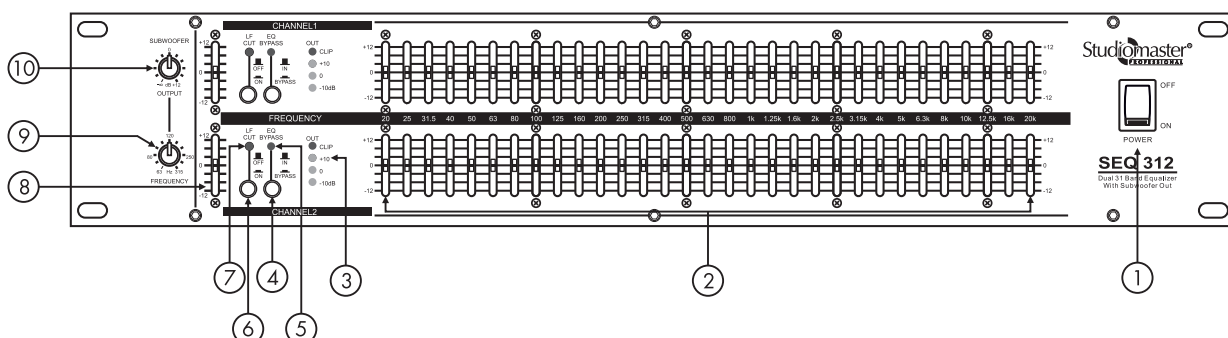
**Factory Repair Service maybe required in the following circumstances:**

- The Power supply cord or the plug has been damaged.
- If the product has been exposed to liquid spillage, rain or heavy moisture.
- If the product exhibits a change in performance & doesn't operate properly.
- If the product is damaged due to it being dropped.

## 3. Operation

### Front Panel Introduction

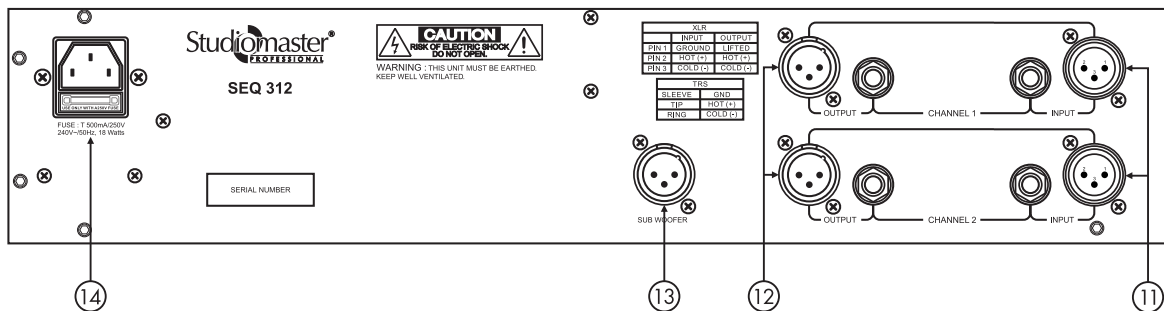
**NOTE:** Channel 1 and 2 are identical.



1. **Power Switch:** This switch is used to switch the Equalizer On/OFF.
2. **Boost/Cut fader:** This fader is used to boost or cut a dedicated frequency.
  - a. Moving the fader upward will boost frequency upto +12dB.
  - b. Moving the fader downward will cut frequency upto -12dB.

3. **Bargraph:** It will show the signal level. Red led indicates the clipping of the signal.
4. **EQ IN/Bypass switch:** This switch is used to activate the EQ IN/Bypass mode. When switch is in "Released" position, EQ IN mode is active and if the switch is in "Pressed" position, EQ is "Bypassed".
5. **EQ Bypass Status LED:** This LED lights up when EQ is by passed.
6. **Low cut switch:** This switch is used to cut/attenuate signals below 63Hz. The low cut is activated when switch is in "pressed" position.
7. **Low cut LED:** This LED lights up when the low cut mode is in operation.
8. **Input level fader:** This fader sets the signal level to the Equalizer.
9. **Sub woofer frequency:** This knob select the sub woofer frequency between 63Hz to 315Hz.
10. **Sub woofer output:** This knob is used to control the sub woofer output level.

## Rear Panel Introduction

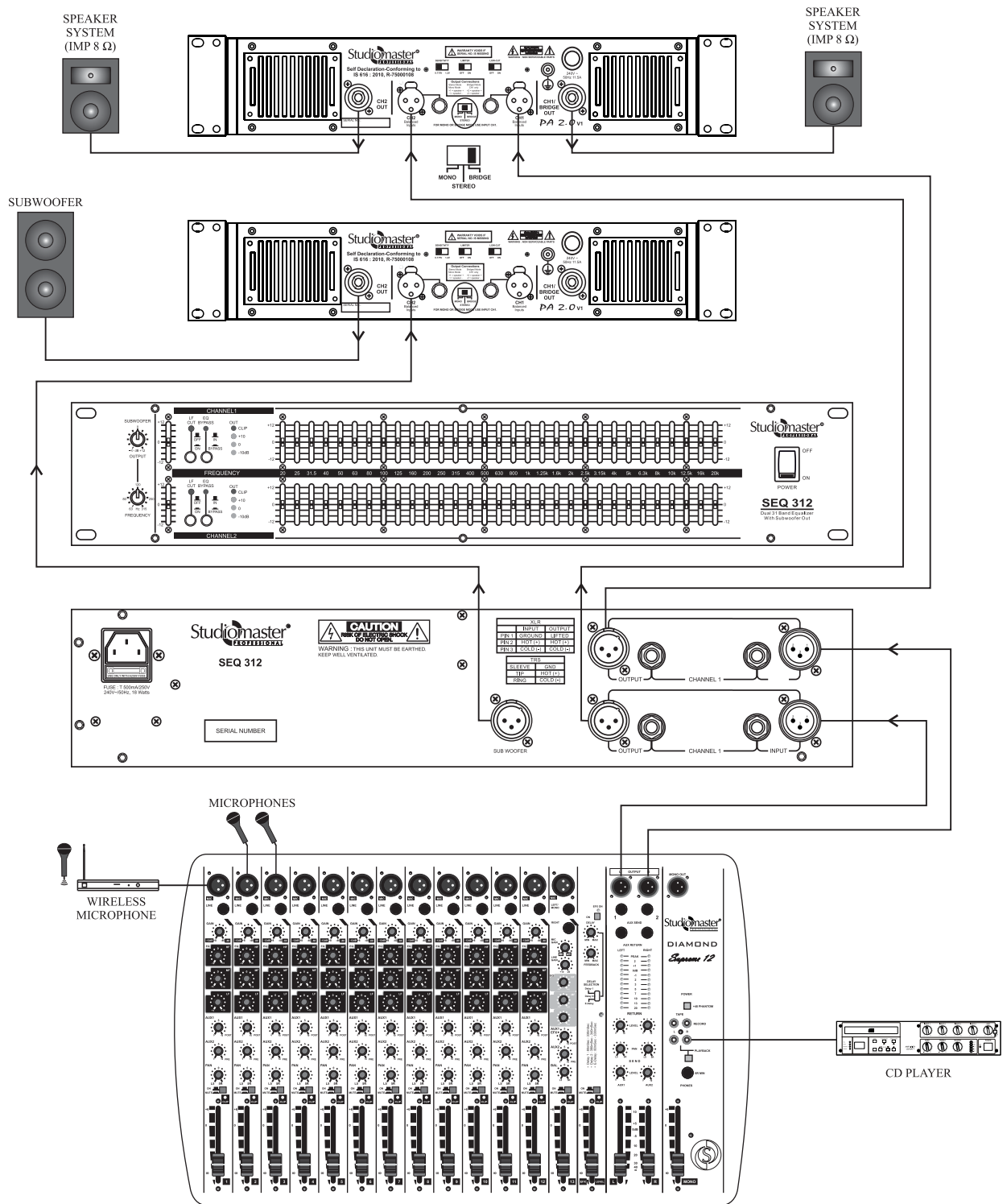


11. **Signal Input Connector:** The SEQ 312 has both XLR & TRS (Phono) input connectors.
12. **Signal Output Connector:** The SEQ 312 has provisions for both XLR & TRS (Phono) output.
13. **Sub Woofer Output Connector:** The SEQ 312 has provisions for XLR Subwoofer output connector.
14. **AC Cord & Fuse:** Plug the supplied cord into the power supply socket. (Before using the product, check if the power supply is correct). If the fuse is broken, please replace with a fuse of the same type.

## 4. Technical Specifications:

Input Impedance	Bal: 20 K $\Omega$
Output Impedance	Bal : 600 $\Omega$
Input Output Connectors	XLR & TRS
Frequency Response	20Hz - 20 KHz
EQ Center Frequency	20Hz, 25Hz, 31.5Hz, 40Hz, 50Hz, 63Hz, 80Hz, 100Hz, 125Hz, 180Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1KHz, 1.25KHz, 1.6KHz, 2KHz, 2.5KHz, 3.15KHz, 4KHz, 5KHz, 6.3KHz, 8KHz, 10KHz, 12.5KHz, 16KHz, 20KHz
EQ Cut/Boost	$\pm 12$ dB
Sub Woofer Frequency	63Hz - 315Hz
Low Cut	63Hz, -3dB
S/N Ratio	> 90 dB
THD	0.01%
Power Supply	230V AC (50~60Hz)
Power Consumption	18W
Dimensions (W x D x H)	482 x 145 x 88mm
Net Weight	2.9kg's

## 5. Setup Diagram



\* Design and specification are subject to change without notice.

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