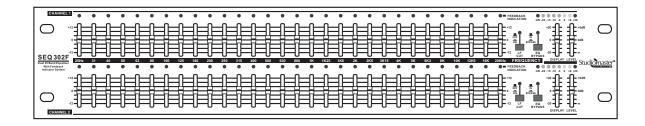
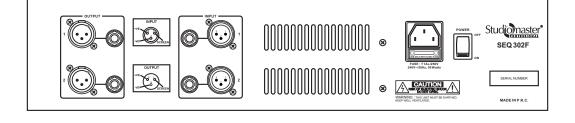


SEQ 302F

Professional Dual 30-Band Stereo Graphic Equalizer with Feedback Detection System



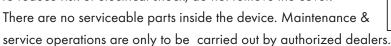


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1. Safety Instructions

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





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.

2. Introduction

Thank You for purchasing the Studiomaster Professional SEQ 302F, Dual 30-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.

The Feedback Detection System is one of the most outstanding characteristics of our graphic equalizer. This ingenious circuitry lets you immediately recognize & eliminate feedback frequencies. The Feedback Detection System uses the LEDs to indicate the critical frequencies. This way, one can easily identify & control the particular frequency feedback.

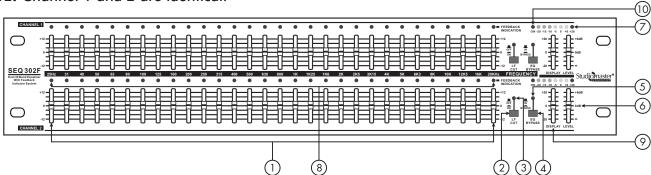
3. Features

- Professional Dual 30-Band stereo graphic equalizer with Constant Q factor for live sound and install applications.
- Feedback detection system with LED for each frequency instantly reveals the critical frequencies.
- Durable & Accurate 20mm Faders for easy level setting of each frequency.
- Range setting between +12dB/-12dB to give the gradual variation required.
- Low Frequency cut & EQ bypass switches.
- Balanced inputs and outputs with 1/4" TRS and XLR connectors.

4. Operation

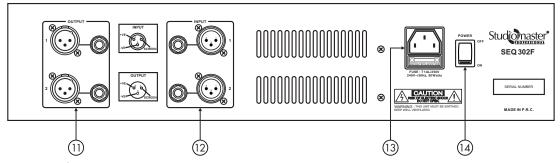
Front Panel Introduction

NOTE: Channel 1 and 2 are identical.



- 1. 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.
- 2. Low cut switch: This switch is used to cut/attenuate signals below 63Hz. The low cut is activated when switch is in "pressed" position.
- 3. Low cut LED: This LED lights up when the low cut mode is in operation.
- 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. Input level fader: This fader sets the signal level to the Equalizer.
- 7. Bargraph: It will show the signal level. Red led indicates the clipping of the signal.
- 8. Feedback Indication LED: This LED lights up when there will be feedback generation.
- 9. Display Fader: Feedback indication LED brightness can be controlled by display fader.
- 10. Power On LED: LED lights to indicate equalizer power on status.

Rear Panel Introduction



- 11. Signal Output Connector: The SEQ 302F has provisions for both XLR & TRS (Phono) output.
- 12. Signal Input Connector: The SEQ 302F has both XLR & TRS (Phono) input connectors.
- 13. 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.
- 14. Power On/Off Switch: This switch is used to switch the Equalizer On/OFF.

How to use Feedback Function:

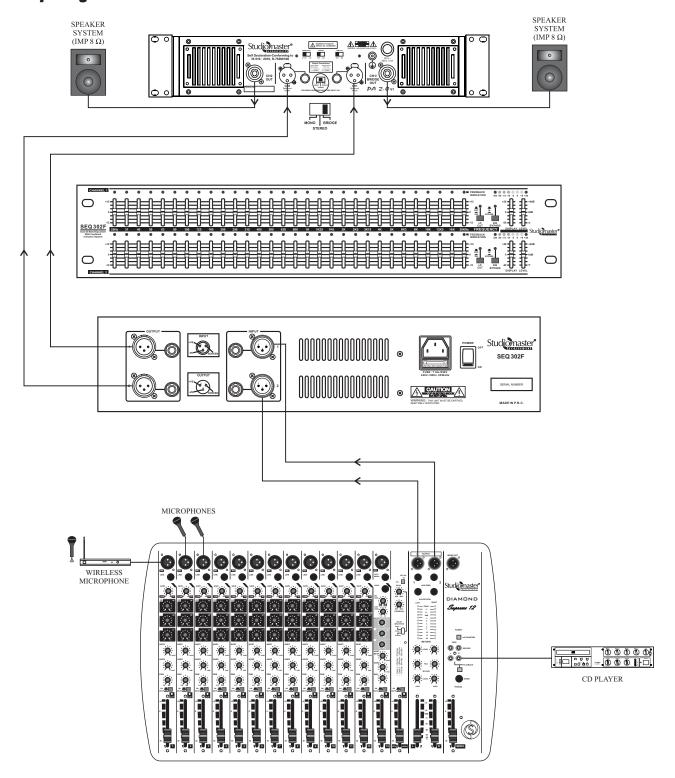
- If there is feedback in the system, the feedback detection LEDs indicate frequency ranges with the highest energy levels. If you keep an eye on the LEDs while you play back your music (or during the sound check before a show), you can easily identify those frequencies causing feedback. Similarly, increased signal levels on individual frequency bands indicate a higher likelihood that feedback may occur.
- If feedback occures, pull down the respective faders whose LEDs are lit until the feedback subsides. Repeat this procedure
 to eliminate other possible feedback frequencies.

- Leave all other faders in the middle position if there is no need for frequency correction.
- Do not touch other settings (mixer gain, amplifier volume..etc), and you will have a tremendous amount of headroom available to you, without creating audible feedback.
- The brightness of LED's can be controlled by display Fader (Please see point 9).

5. Technical Specifications:

Input Impedance	Bal: 12.7K Ω		
Output Impedance	Bal : 600 Ω		
Input Output Connectors	XLR & TRS 20Hz - 20 KHz		
Frequency Response			
EQ Center Frequency	25Hz, 31Hz, 40Hz, 50Hz, 63Hz, 80Hz, 100Hz, 125Hz, 160Hz, 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	±12dB		
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	25W		
Dimensions (W x D x H)	485 x 170 x 90mm		
Net Weight	3.15 Kg		

6. Setup Diagram



Range of Studiomaster Professional Products.

Wired Microphones

SM 100XLR **TRIO 100 SM 200XI R TRIO 200** SM 300I SM 400XLR SM 450XLR SM 500XLR SM 600XLR SM 650XLR SM 800C SM 900C **SBM 10 SBM 20** Flex 2/Flex 2B

Wireless Microphones

BR 28 Series BR 48 Series ER 7 Series ER 11 Series ER 31 Series ER 58 Series KR 12 Series TR 47 Series XR 40 Series XR 100 Series

Flex 4

Conference System

Vāk 10 System Vāk 10s Vāk 10d / Vāk 10c Vāk 20

Crossovers

SX-2 SX-321 SX-521

Processors

SEQ 152 SEQ 302F SEQ 312 Multi 3 SFX 8 SPS 8 SDX 4 Phantom 11

Mixers

Cub Series CUB 4 CUB 6 CUB 6U

~ Air Series AiR 2 AiR 4 AiR 6 AiR 8 AiR 12 AiR 16 AiR Pro 24 AiR Pro 28 AiR Pro 36

~ Air Series

AiR X 10 AiR X 14 AiR X 18

~ AQUA Series

Aqua 6 Aqua 8 Aqua 10 Aqua 14

~ Digital Mixer

D. Mix 20

~ Diamond Club Series

Diamond Club 6.2 Diamond Club 8.2 Diamond Club 8.2 EFX Diamond Club 12.2 Diamond Club 12.2EFX Diamond Club 12.2USB Diamond Club 16.2 Diamond Club 16.2EFX

~ Diamond Supreme Series

Diamond Supreme 7 Diamond Supreme 12 Diamond Supreme 12U Diamond Supreme 16U

~ Club 2000 Series

C 142 C 142EFX C 182

~ Platinum Series

Platinum 12 Fx Platinum Basic MKI Platinum 16 Fx

~ Diamond Pro-3 Series

Diamond Pro-3 12.3 Diamond Pro-3 16.3

~ DJ Mixers

DJX 300 DJX 325 Playmix 300 **DIX 825 DJX 825** DJX 875 DJX 925 DJX 975

CD/USB Media Player

MP 2000

Amplifiers

~ P - Series PA 1.5

PA 2.0 PA 3.0 PA 4.5 PA 6.0 PA 7.5

~ DPA Series

DPA 2000 **DPA 3200** DPA 4500 DPA 5000

~ DJA Series

DJA 100 DJA 500 **DJA 800** DIA 1600 **DIA 2500** DJA 3200 DJA 4000 DJA 5000

XJA 2600

~ Arena Series Arena 20 Arena 30

~ Industrial Amplifier

ARC 120A ARC 240A ARC 480A

Speaker Component

S-Series SWF 18120 SWF 18100 SWF 1880 SWF 1560 SMB 1565 SMB 1545 SMB 1530 SMB 1250 SMB 1230 SMR 1220 SHF 0104 SHF 0210

~ E-Series

EMB 1225 EMB 1530

~ TITAN Series

TWF 2115 TWF 1815 TWF 1811 TWF 1580 TMR 1555 TMB 1535 THF 0208

Passive Speakers

~ S-Series S5225 S8018 S8118 S8128 S8028 ~ Fire Series

Fire 21 / Fire 51 Fire 51A Fire 55 / Fire 57 Fire 82 Fire 84

~ XVP Series XVP 1225

XVP 1540 XVP 1540M XVP 1560 XVP 2250 XVP 2550 XVP 2585 XVP 25A2 XVP 25A6 XVP 1808 XVP 1812 XVP 2820

EKS 151

O 400

Powered Speaker

~ ARIA Series

Aria 8 Aria 12 Aria 15

~ A Series

A 200 A 400 A 500 A 600

H 400

~ B Series

B 200 B 400 (Black & White) B 400U B 400UB

~ OP Series

0 415 O 515

~ SUB Series

O 12SUB O 15SUB

Line Array System

FIRE 92 SI A-40 T SLA-40 Kit **SLA 30** 5 9022 S 9022 (FK)

Stabilizers

SVC - S1000 SVC - S2000 SVC - S3000 SVC - S5000 SVC - S8000 SVC - S10000 SVC - S12000

Speaker Stand

SS 20S WS 10

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^{*} Design and specification are subject to change without notice.