

Studiomaster

Studiomaster

GX



**USER
GUIDE**



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INTRODUCTION

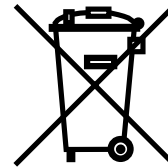
Thank you for buying this Studiomaster product. The GX series comes in both active and passive versions, in 10", 12" and 15" configurations, and 12" and 15" monitor speaker configuration. All passive cabinets feature a 2-way crossover network and high precision components. The active models have high power built-in amplifiers with gain, level and eq controls. All GX speaker cabinets come with comfortable flush handles and a 35mm 'top-hat' socket for pole mounting.

READ THE USER GUIDE

The GX range is very easy to use, although to get the best from your new purchase, we recommend you read this User Guide before getting down to any serious work. It also contains important safety information.

UNPACKING

Remove your Studiomaster product from its packaging. Retain the packing carton in the eventuality that the unit needs to be returned for service or repair, and please complete and return your warranty card. Returning the completed warranty card does not diminish your statutory rights in any way.



WEEE Mark

If you want to dispose of this product, do not mix with general household waste. There are separate collection systems for used electronic products in accordance with legislation under the WEEE Directive (Directive 2002/96/EC) and is effective only within the European Union.



SAFETY INSTRUCTIONS

READ THIS BEFORE YOU USE YOUR PRODUCT

GX active models only (GX10A/12A/15A/12MA/15MA)

1. Before connecting the A.C. power cord make sure the wall supply voltage is suitable for the GX active series. For 230V models the supply must be between 220 and 240V. For 115V models the supply must be between 110 and 120V.
2. Only use the A.C. power cord / mains lead supplied with the product. Replace if it becomes damaged in any way.
3. Never operate without, or remove the safety ground (earth) from the A.C. power cord / mains lead.

All GX series (active and passive)

4. Do not attempt to remove any screws or panels. There are no user serviceable parts inside.

5. Do not operate the unit next to heat sources such as radiators.
6. The unit should not be operated or stored near rain or moisture.
7. This equipment must not be exposed to dripping or splashing and no objects filled with liquids should be placed on top of it.
8. Write the serial number in the box provided in the Warranty section for future reference.
9. If the unit gets damaged, has been dropped or appears to have developed a fault refer to the Service Information section for details.

WARNING

THIS APPARATUS MUST BE EARTHED (GROUNDED)

WARNING

THESE PRODUCTS ARE CAPABLE OF VERY HIGH VOLUME LEVELS AND PROLONGED EXPOSURE CAN RESULT IN HEARING DAMAGE



CONTROLS & FEATURES - GX active (GX10A/12A/15A/12MA/15MA)

1. **MIC INPUT** : Balanced input using a professional female XLR connector for low impedance microphones.
 - 1a. **MIC GAIN** : This is used to match the incoming signal to the internal operating level of the GX powered speaker.
2. **LINE INPUT** : Balanced XLR or unbalanced RCA Phono connectors for line level equipment like mixing consoles, CD/MP3 players, keyboards etc.
 - 2a. **LINE GAIN** : This is used to match the incoming signal to the internal operating level of the GX powered speaker.
3. **LINE OUTPUT** : Can be used to link the input signal to additional GX powered speakers. The connector types are balanced professional male XLR and unbalanced 6.3mm 1/4" jack.
 - 3a. **LINE OUTPUT LEVEL** : This controls the output level of the LINE OUTPUT sockets.

4. **HI** : EQ boosts or cuts the high / HF frequencies.
5. **MID** : EQ boosts or cuts the mid / MF frequencies.
6. **LO** : EQ boosts or cuts the low / LF frequencies.

Tone controls : HI, MID & LO

The controls marked HI, MID and LO are very useful for changing the characteristics or tone of the sound. For simplicity or for new users set these controls to the centre position, which effectively turns off or bypasses the tone control section and you will not need to worry about these controls until you feel more confident.

However to get the best out of your audio system or if you just want to experiment read on....

Adding a little HI on CDs can add brightness to the sound. For microphones increasing the MID ranges tends to 'lift' the vocal adding clarity to the voice.

For CDs, adding LO makes the bass section of music more prominent. For microphones doing the opposite and removing a little bass helps stop the 'popping' or 'boomy' sound often apparent when a microphone is used too close to the mouth.

For best results with microphones or CDs, don't be over enthusiastic with the tone controls as this can make the sound un-natural. With guitars or other instruments more extreme tone setting can be used to create more of a sound effect.

7. **MAIN LEVEL** : This control adjusts the overall volume of the GX powered speaker.



**CONTROLS & FEATURES (continued) -
GX active (GX10A/12A/15A/12MA/15MA)**

8. **PEAK LED** : Illuminate when the speaker is close to its maximum volume.
9. **POWER LED** : Illuminates when the GX powered speaker is switched on.
10. **POWER** : switch turns on and off the GX powered speaker.
11. **POWER CONNECTOR** : The AC power connector also contains the AC power fuse.
12. **EXTENSION SPEAKER** : This industry standard speaker socket is wired in parallel with the internal speakers of the GX cabinet and is used to power an additional passive speaker. To avoid damage it is recommended that only a Studiomaster GX passive speaker of the same size should be used with a GX active speaker.

However, other speaker cabinets can be used providing they have the correct power rating and are 8 ohms impedance or above.

CAUTION : Do not use any speakers with the extension speaker socket less than 8 ohms impedance or damage may occur.



APPLICATIONS

HINTS & TIPS

- 1. Using the GX10/12/15 active speakers with a mixer**
Connect the mixer to the LINE input. Set the LINE INPUT GAIN, EQ and MAIN LEVEL controls to the centre (12 o'clock) position and make all volume and tone adjustment on the mixer.
- 2. Speaker stand / pole mounting**
The GX series are ideal for mounting on suitable 35mm stands.



TECHNICAL SPECIFICATION

passive

	GX10	GX12	GX15	GX12M	GX15M	
Power Handling (program)	200W	400W	500W	400W	500W	
Nominal Impedance	8 ohms	8 ohms	8 ohms	8 ohms	8 ohms	
Frequency Response	80Hz - 18kHz	60Hz - 18kHz	40Hz - 18kHz	60Hz - 18kHz	40Hz - 18kHz	
Sensitivity 1W/1m	97dB	97dB	98dB	97dB	98dB	
Crossover frequency	4kHz	4kHz	3kHz	4kHz	3kHz	
Low frequency driver	10"	12"	15"	12"	15"	
High frequency driver	piezo	piezo	1.35" driver	piezo	1.35" driver	
Nominal dispersion (H x V)	90 x 60 degree	90 x 60 degree	90 x 60 degree	90 x 60 degree	90 x 60 degree	
Connection (parallel wired)	2 x 4 pole industry standard sockets					
Size (w x h x d)	metric mm	350 x 520 x 260	390 x 570 x 290	470 x 710 x 350	400 x 530 x 370	680 x 470 x 350
	imperial inches	13.8 x 20.5 x 10.2	15.4 x 22.4 x 11.4	18.5 x 28 x 13.8	15.7 x 20.9 x 14.6	26.8 x 18.5 x 13.8
Weight (net)	13kg (28.6lb)	20kg (44lb)	26kg (57.2lb)	20kg (44lb)	26kg (57.2lb)	
Weight (shipping)	14.5kg (31.9lb)	21.5kg (47.3lb)	28kg (61.6lb)	21.5kg (47.3lb)	28kg (61.6lb)	



active

TECHNICAL SPECIFICATION

	GX10A	GX12A	GX15A	GX12MA	GX15MA	
Output Power (music)	100W	200W	250W	200W	250W	
Frequency Response	80Hz - 18kHz	60Hz - 18kHz	40Hz - 18kHz	60Hz - 18kHz	40Hz - 18kHz	
Maximum SPL	120dB	124dB	126dB	124dB	126dB	
Crossover frequency	4kHz	4kHz	3kHz	4kHz	3kHz	
Low frequency driver	10"	12"	15"	12"	15"	
High frequency driver	piezo	piezo	1.35" driver	piezo	1.35" driver	
Nominal dispersion (H x V)	90 x 60 degree	90 x 60 degree	90 x 60 degree	90 x 60 degree	90 x 60 degree	
HIGH EQ (+/-15dB)	10kHz	10kHz	10kHz	10kHz	10kHz	
MID EQ (+/-12dB)	2.5kHz	2.5kHz	2.5kHz	2.5kHz	2.5kHz	
LOW EQ (+/-15dB)	500Hz	500Hz	500Hz	500Hz	500Hz	
Power Supply (all models)	230V range : +/-10% ~50/60Hz		115V range : +/-10% ~50/60Hz			
Size (w x h x d)	metric mm	350 x 520 x 260	390 x 570 x 290	470 x 710 x 350	400 x 530 x 370	680 x 470 x 350
	imperial inches	13.8 x 20.5 x 10.2	15.4 x 22.4 x 11.4	18.5 x 28 x 13.8	15.7 x 20.9 x 14.6	26.8 x 18.5 x 13.8
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EXPECT THE BEST



WARRANTY

ARE YOU COVERED?

The Manufacturer warrants all StuDiomaster products to be free from defects in materials and workmanship for a period of one year from date of purchase. The Manufacturer reserves the right to the final decision on all warranty claims.

Exclusions to Warranty Cover

Damage caused by accident, misuse, improper installation or neglect.

Damage caused by repair, modification or service by persons not authorised by StuDiomaster.

Products on which the serial number has been defaced, altered or removed.

Who is Protected

This warranty is enforceable by the original purchaser and any subsequent owner(s) during the warranty period, providing a

copy of the original sales receipt is submitted whenever a warranty service is required.

It is recommended that you complete and mail the Warranty Registration Card supplied with your product.

For your reference in the event of a warranty or service repair, please complete the following information and attach a copy of your original sales receipt.

Model : _____

Serial Number : _____

Purchase Date : _____

Purchased From : _____

Note : THIS WARRANTY DOES NOT AFFECT YOUR STATUTORY RIGHTS



SERVICE INFORMATION

HOW TO GET MY PRODUCT REPAIRED

If you have a problem with your Studiomaster product or think it has developed a fault you should first carefully check the Trouble Shooting section in this guide. If this does not solve the problem or if the product is physically damaged, contact your local dealer or distributor for service details.

Should it be recommended you return the product to your nearest Studiomaster Service Centre you must first contact them.

You will be asked for the product type and serial number. You will then be given a Returns Authorisation (RA) number.

Pack the unit in its original carton to protect it from shipping damage.

You must have the Returns Authorisation number clearly marked on the outside of the carton or we may refuse the delivery. Studiomaster cannot be held responsible for damage resulting from the equipment being packed incorrectly.

Label the equipment clearly with your name and address and include a clear description of the fault. The more information you supply helps the service engineer, minimising repair cost when out of warranty.

Important : No liability will be accepted by Studiomaster for any transit damage to units not returned in their original packing, for warranty repairs or otherwise.

In Accordance with our progressive product development, Studiomaster / Studioking Limited reserve the right to change features and specifications without prior notice.

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