

OWNER'S MANUAL

GECKO® DESTINY EQ 7043



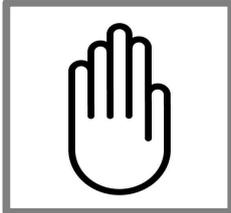
www.geckomusic.net



GECKO® SAFETY INSTRUCTIONS & SYMBOLS GUIDE

For your own safety and to avoid invalidation of the warranty, all text marked with these symbols should be read carefully.

SYMBOLS:



NOTES

Contain important information and useful tips on the operation of your equipment.



WARNING

The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



CAUTIONS

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 appliance. Please read the manual carefully.



HEADPHONES SAFETY WARNING

Contain important information and useful tips on headphones outputs and monitoring levels.



SAFETY INSTRUCTIONS:

- To reduce the risk of electrical shock, do not remove covers. No user serviceable parts inside. Please refer servicing to qualified personnel.
- To reduce the risk of electrical shock or fire, do not expose the equipment to rain or moisture.
- Do not impose unnecessary stress on your equipment (i.e. placing heavy objects on it, overscrewing its mounting etc).
- Read and keep the instruction manuals in a safe place for future references.
- Do not attempt to clean the equipment with chemical solvents as this may damage the finish. Clean only with dry cloth.
- Do not block any ventilation openings.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- Do not defeat the purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the grounding prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for the replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Unplug the apparatus during lightning storms or when it is not in use for a long period of time.

- Use only attachments / accessories specified by the manufacturer.
- Always shut down power supply when not in use to save energy and for prolonged lifespan.
- Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a period of time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible noise level exposures shown in the following chart. According to OSHA, any exposure in excess of these permissible limits could result in some hearing loss. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels use hearing protectors while the equipment is in operation. Ear plugs or protectors in the ear canals or over the ears must be worn when operating the equipment in order to prevent permanent hearing loss if exposure is in excess of the limits set forth here:

Duration/Day (Hours)	dB, Sound Pressure Level (SPL)	Descriptions
	Below 90 dB	Safe zone
8.00	90	Hearing damage
6.00	92	
4.00	95	
3.00	97	
2.00	100	Serious hearing damage
1.50	102	
1.00	105	
0.50	110	
0.25 or less	115	Human pain threshold

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FOREWORD

Dear Friends,

Thank you very much for purchasing quality products by **GECKO MUSIC GROUP**. I am indeed very delighted that we have journeyed this far, setting new standards in the audio and music industry while touching and changing lives along the way!

At **GECKO MUSIC GROUP** we focus on developing nothing but the best professional audio equipment and premium grade musical instruments you ever need! It has been our philosophy all this while that good sound reproductions can be achieved at a fraction of a premium. Our engineering team is constantly doing research and development to meet this objective. We thank God that by HIS grace, we have succeeded in developing the revolutionary C.R.I.S.T.A.L.® Audiophile technology that is changing the way how sound is being encoded, reproduced and managed!

On behalf of **GECKO MUSIC GROUP**, I would like to pledge our continuing commitment to uphold our traditions in serving music and audio communities around the world with more value-added highest possible quality GECKO® professional audio equipment and premium grade musical instruments!

Once again, thank you very much for your support.

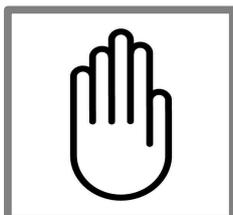
Yours truly,

A handwritten signature in black ink, appearing to be 'Daniel Foo', with a small dot at the end of the line.

Daniel Foo
Founder / Chairman
GECKO MUSIC GROUP

TABLE OF CONTENTS

INTRODUCTION	1
CONTROL ELEMENTS	2
MAKING CONNECTIONS	4
INSTALLATION CONSIDERATIONS	5
SPECIFICATIONS	6
WARRANTY	7



NOTES: Congratulations on purchasing the GECKO® DESTINY EQ 7043 graphic equalizer! We recommend that you take a moment and read through the manual as it provides information that will assist you in using your unit to its fullest potential.

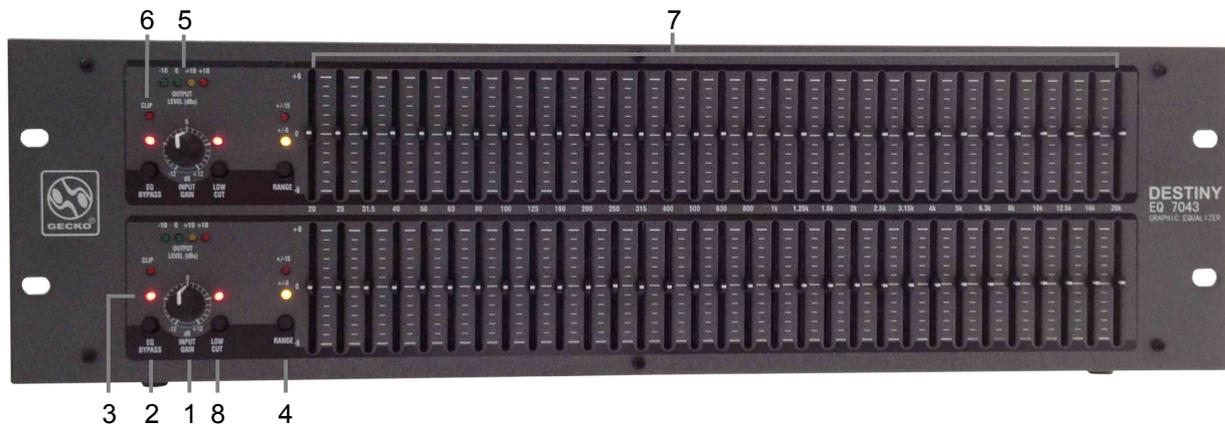
INTRODUCTION

The GECKO® DESTINY EQ 7043 graphic equalizer is a very useful audio signal processing tool in situation where precise frequency control is required across the audible frequency spectrum (i.e. music masterings).

The GECKO® DESTINY EQ 7043 graphic equalizer can be used in tuning any acoustical environment (i.e. home theater rooms, recording and mastering studios, concert halls), to stop ringing, increase clarity, and flatten the overall frequency response of the environment.

CONTROL ELEMENTS

FRONT PANEL



1. INPUT GAIN CONTROL

This control sets the signal level to the equalizer. It is capable of -12dB to +12dB of gain. Its effect is apparent by viewing the OUTPUT LEVEL METER.

2. EQ BYPASS SWITCH

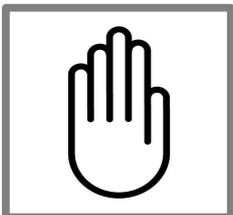
This switch removes the graphic equalizer section from the signal path. The BYPASS switch does not, however, affect the INPUT GAIN, or LOW CUT filters.

3. EQ BYPASS LED

This red LED lights when the EQ is in BYPASS mode. Note that BYPASS mode only affects the graphic equalizer section. The INPUT GAIN and LOW CUT controls remain unaffected when the EQ is bypassed.

4. BOOST (+) / CUT (-) RANGE SELECTION SWITCH AND LED

This RANGE switch selects which of the two BOOST (+) / CUT (-) range the equalizer will use, either 6dB or 15dB. The red LED lights up when the 15dB range is selected, and the amber LED lights up when the 6dB range is selected.



NOTES: The BOOST (+) / CUT (-) switch is slightly recessed. This is to prevent accidental activation of the switch, possibly causing damage to other sound system components.

5. OUTPUT LEVEL LED METER

These four LEDs indicate output level of the equalizer. The red LED is 3dB below clipping and is marked as +18dBu. It monitors the level at the OUTPUT of the equalizer after all other processing.

6. CLIP LED

This LED lights whenever any internal signal level reaches 3dB clipping, which may occur when any of the followings happen: (1) the input signal is "hotter" than +22dBu; (2) excessive gain is applied by the INPUT GAIN control; or (3) excessive boost is applied using the FREQUENCY BAND SLIDERS.

7. FREQUENCY BAND SLIDERS

Each one of this slider potentiometer will boost or cut at its noted frequency by 6dB or 15dB, depending upon the RANGE switch. When all the sliders are in the center demented position, the OUTPUT of the equalizer is linear (flat). The frequency band centers of the GECKO® DESTINY EQ 7043 are marked at $\frac{1}{3}$ or $\frac{2}{3}$ of an octave interval on ISO standard spacing.

8. LOW CUT SWITCH

The LOW CUT switch inserts or removes the 18dB/Octave 40Hz Bessel low-cut filter from the signal path. When the LOW CUT switch is pressed in, the 18dB/Octave 40Hz Bessel low-cut filter is in the audio path.

REAR PANEL



9. POWER SWITCH

Switch the power ON [I] and OFF [O]. Always make audio connections with the power switch in the OFF position.

10. IEC - AC POWER CORD RECEPTACLE

Plug the AC power cord (supplied) into the GECKO® DESTINY EQ 7043. Plug the other end into a standard wall power outlet. Take care to route power cables away from audio lines.



WARNING: Be sure to verify your actual line voltage is the same as the voltage level printed below the AC power receptacle. Connection to an inappropriate power source may result in extensive damage which is not covered by the warranty.

11. INPUTS

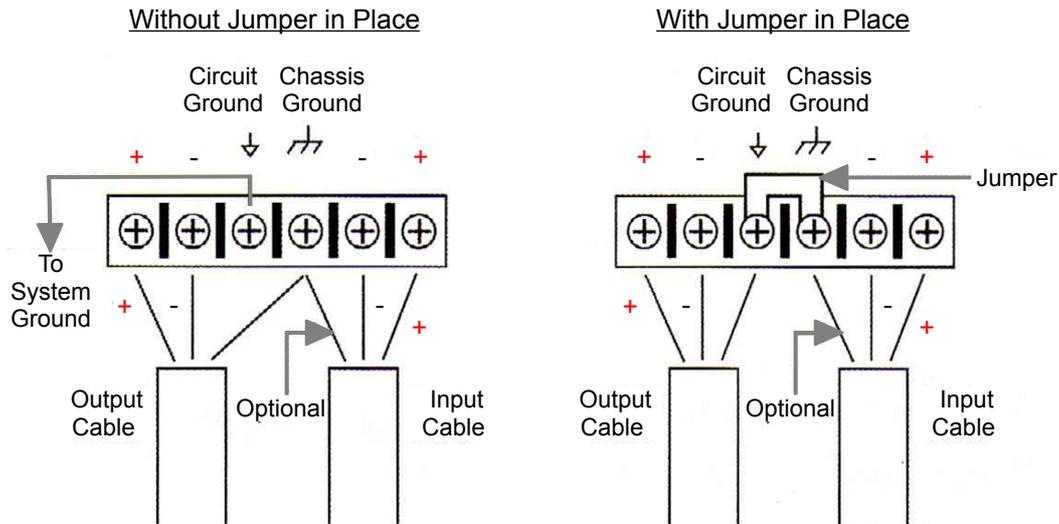
Three types of input connectors are provided for INPUT connections: female locking XLR type connectors, $\frac{1}{4}$ " TRS connectors, and a barrier terminal strip. The maximum input level that the equalizer can accept is +22dBu (ref: 0.775 Vrms).

12. OUTPUTS

Three types of output connectors are provided for OUTPUT connections: male XLR type connectors, ¼" TRS connectors, and a barrier terminal strip.

13. CHASSIS GROUND LIFT

By removing the jumper connecting the two screws on the barrier terminal strip, the chassis ground is separated from the circuit ground of the equalizer unit. This is sometimes necessary to prevent "ground loops" in a sound system. When lifting the ground strap, you must make a connection from the circuit ground terminal to some other ground point in your audio system in order for the equalizer to function properly.



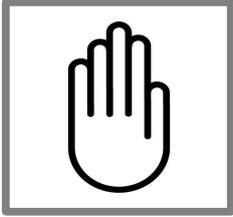
Wiring connectors with ground.

MAKING CONNECTIONS

The GECKO® DESTINY EQ 7043 graphic equalizer has balanced INPUTS and OUTPUTS that can be used with any balanced or unbalanced line-level device. For more specific information about cabling possibilities, please refer to INSTALLATION CONSIDERATIONS.

To connect the equalizer to your sound system, refer to the following steps:

1. Turn OFF all equipment before making any connections.
2. Mount the GECKO® DESTINY EQ 7043 on a 3U rack space (not included). It can be mounted above or below anything that does not generate excessive heat. Although it requires no special ventilation, ambient temperatures should not exceed 113°F (45°C) when equipment is powered.
3. Make connections using quality audio cables (i.e. GECKO® TRUTH T3AL) and connectors (i.e. GECKO® OLYMPIAN connectors) according to your requirements. Audio connections are made via XLR (male and female) and ¼" TRS connectors, or barrier terminal strips. All of these connectors for the INPUTS and OUTPUTS can be used for balanced or unbalanced connections.



NOTES: The use of more than one connector at a time for the INPUTS could unbalance balanced lines, cause phase cancellation, short a conductor to ground, or cause damage to other equipment connected to the equalizer. More than one OUTPUT may be used simultaneously as long as the combined parallel load is not greater than 600Ω.

4. Select the operating range with the BOOST (+) / CUT (-) RANGE selection switch. Be sure to reduce audio levels at the power amplifiers when changing the setting of this switch as it may generate an audible transient.
5. Connect the AC power cord (supplied) to the unit's rear panel POWER receptacle and to an appropriate AC power source. Route the AC power cord away from audio lines. The unit may be turned ON and OFF using the rear panel POWER switch or a master equipment power switch (i.e. GECKO® GALILEE series power sequencers).

INSTALLATION CONSIDERATIONS

HOOKUPS AND CABLING

The GECKO® DESTINY EQ 7043 graphic equalizer is designed for nominal +4dBu levels. The equalizer can be used with either balanced or unbalanced sources, and the OUTPUTS can be used with either balanced or unbalanced loads, provided proper cabling is used.

A balanced line is defined as two-conductor shielded cable with the two center conductors carrying the same signal but in opposite polarity when referenced to ground (cable shield at ground potential). An unbalanced line is generally a single-conductor shielded cable with the center conductor carrying the signal and the shield at ground potential.

INPUT CABLE CONFIGURATIONS

The GECKO® DESTINY EQ 7043 graphic equalizer has an input impedance of 40kΩ balanced and 20kΩ unbalanced. This makes the GECKO® DESTINY EQ 7043's audio INPUTS suitable for use with virtually any low source impedance (under 20kΩ).

OUTPUT CABLE CONFIGURATIONS

The GECKO® DESTINY EQ 7043 graphic equalizer's output is capable of driving a 600Ω load to +18dBu. For maximum hum rejection with a balanced source, avoid common grounding at the equalizer's INPUTS and OUTPUTS.

SPECIFICATIONS

Inputs:

Connectors: ¼" TRS (2), XLR Female (2), and Barrier Terminal Strip
Type: Electronically Balanced/Unbalanced, RF Filtered
Impedance: 40k Ω (Balanced), 20k Ω (Unbalanced)
Max Input Level: > +21dBu, Balanced or Unbalanced
CMRR: >40dB, Typical >55dB at 1kHz

Outputs:

Connectors: ¼" TRS (2), XLR Male (2), and Barrier Terminal Strip
Type: Impedance-Balanced/Unbalanced, RF Filtered
Impedance: 200 Ω (Balanced), 100 Ω (Unbalanced)
Max Output Level: > +21dBu Balanced/Unbalanced into 2k Ω or greater/ > +18dBm
Max Output Impedance: Balanced/Unbalanced (into 600 Ω)

System Performance:

Frequency Response: 20Hz ~ 20kHz, +0.5 / -1dB
Bandwidth: < 10Hz ~ >50kHz, +0.5 / -3dB
Dynamic Range: 109dB (+/-15dB Range), 115dB (+/-6dB Range)
Signal-to-Noise: 90dB (+/-15dB Range), 97dB (+/-6dB Range)
THD + N: < 0.005%
Inter-Channel Crosstalk: < -80dB, 20Hz ~ 20kHz

Function Switches:

EQ BYPASS: Bypasses the GRAPHIC EQUALIZER section in the signal path
LOW CUT (Recessed): Activates the 40Hz 18dB/Octave Bessel High-Pass Filter
RANGE: Selects either +/- 6dB or +/- 15dB Slider Boost (+) / Cut (-) Range

Physical Properties:

Enclosure: Steel
Color: Metallic Grey
Net Weight: 5.50Kg
Dimension: (H) 135mm x (W) 483mm x (D) 204mm

Specifications subject to change without prior notice. Manufactured under ISO9000 certified management system.

GECKO® TERMS OF WARRANTY

WARRANTY:

GECKO MUSIC GROUP warrants its GECKO® products for a period of three (3) years from the original date of purchase, in accordance to the warranty regulations described below.

WHAT IS COVERED:

During the applicable warranty period, GECKO MUSIC GROUP warrants the product against defects in materials and workmanship and against malfunctions. GECKO MUSIC GROUP will remedy all such defects and malfunctions without charge for parts or labour if the warranty applies. In the case that other parts are used which constitutes an improvement, GECKO MUSIC GROUP may, at its discretion, charge the customer for the additional cost of these parts. Final determination of warranty coverage lies solely with GECKO MUSIC GROUP.

WHAT IS NOT COVERED:

1. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country where the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in material or workmanship.
2. Normal wear and tear, in particular, of faders, cross faders, potentiometers, keys/buttons, valves, guitar/bass strings, machine heads, pick-up covers, vinyl covers, illuminants, and similar parts are not covered by this warranty.
3. Improper handling, neglect or failure to operate the unit in compliance with the instructions given in the user or service manuals.
4. Connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used.
5. Damages/defects caused by force of nature or any other condition that is beyond the control of GECKO MUSIC GROUP.
6. Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the warranty.
7. Modification or removal of serial numbers.

OBTAINING WARRANTY SERVICE:

To return a GECKO® product for warranty service, first fill out the **Online Technical Report** on **www.geckomusic.net** and submit for an authorization/service number. Write the authorization/service number so that it is prominently displayed on the outside of the shipping carton. Any products received without an authorization/service number that is clearly visible upon arrival at the factory will be refused. Enclose proof of the original delivery date or a copy of the original sales receipt/invoice. Enclose a description of the suspected defect or malfunction and the condition, if any, which caused the problem. Return the product to GECKO MUSIC GROUP.

WARRANTY SHIPPING:

You are responsible for prepaying shipping costs F.O.B. GECKO MUSIC GROUP, Melaka, Malaysia. Shipped product(s) must be properly packaged. Use original shipping cartons and packing materials where possible. GECKO MUSIC GROUP is not responsible for damages resulting from inadequate and or improper packing. Products received with damages due to improper packaging will be deemed out of warranty.

Products which do not meet the terms of this warranty will be repaired exclusively at the buyer's expense. GECKO MUSIC GROUP will inform the buyer of such circumstance. If the buyer fails to submit a written repair order within six (6) weeks after notification, GECKO MUSIC GROUP will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order.

WARRANTY RIGHTS:

This warranty is exclusive and extended to the original buyer and is not transferable to anyone who may subsequently purchase this product. No other person (apart from authorized GECKO® Stores) shall be entitled to give any warranty promise on behalf of GECKO MUSIC GROUP.