


# GENESIS 1

## GENETX™ GUITAR PROCESSOR

## User's Guide



**Digitech®**  
*The Power to Create*



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN

**ATTENTION**: RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR

**WARNING**: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE

These symbols are internationally accepted symbols that warn of potential hazards with electrical products. The lightning flash means that there are dangerous voltages present within the unit. The exclamation point indicates that it is necessary for the user to refer to the owners manual.

These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service. Disconnect the unit during storms to prevent damage.

**U.K. Mains Plug Warning**

A molded mains plug that has been cut off from the cord is unsafe. Discard the mains plug at a suitable facility. **Never under any circumstances should you insert a damaged or cut mains plug into a 13 amp power socket.** Do not use the mains plug without the fuse cover in place. Replacement fuse covers can be obtained from your local retailer. Replacement fuses are 13 amps and MUST be ASTA approved to BS1362.

**Safety Instructions**

Notice for customers if your unit is equipped with a power cord.

Warning: This appliance must be earthed.

The cores in the mains lead are colored in accordance with the following code:

Green and Yellow - Earth    Blue - Neutral    Brown - Live

As colors of the cores in the mains lead of this appliance may not correspond with the colored markings identifying the terminals in your plug, proceed as follows:

- The core which is colored green and yellow must be connected to the terminal in the plug marked with the letter E, or with the earth symbol, or colored green, or green and yellow.
- The core which is colored blue must be connected to the terminal marked N, or colored black.
- The core which is colored brown must be connected to the terminal marked L, or colored red.

This equipment may require the use of a different line cord attachment plug, or both, depending on the available power source at installation. If the attachment plug needs to be changed, refer servicing to qualified service personnel who should refer to the table below. The green/yellow wire shall be connected directly to the unit's chassis.

CONDUCTOR	WIRE COLOR	
	Normal	Alt
L LIVE	BROWN	BLACK
N NEUTRAL	BLUE	WHITE
E EARTH GND	GREEN/YEL	GREEN

**Warning:** If the ground plug is defeated, certain fault conditions in the unit or in the system to which it is connected can result in full line voltage between chassis and earth ground. Severe injury or death can then result if the chassis and earth ground are touched simultaneously.

**Warning**

**For your protection, please read the following:**

**Water and Moisture:** Appliances should not be used near water (e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.) Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

**Power Sources:** The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

**Grounding or Polarization:** Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

**Power Cord Protection:** Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

**Servicing:** To reduce the risk of fire or electrical shock, the user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

**For units equipped with externally accessible fuse receptacle:** Replace fuse with same type and rating only.

**Electromagnetic Compatibility**

Operation is subject to the following conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.
- Use only shielded interconnecting cables.
- Operation of this unit within significant electromagnetic fields should be avoided.

## Table of Contents:

Overview	1
Front Panel	1
Rear Panel	2
Setup Connections	2
Powering Up	2
Footswitch Operation	3
Models and Effects Functions	3
Amplifier	4
Cabinet	4
Compressor	4
Modulation	5
Delay/Reverb	5
Gate	6
Specifications:	7
Declaration of Conformity	7

## Warranty

We at DigiTech are very proud of our products and back-up each one we sell with the following warranty:

1. The warranty registration card must be mailed within ten days after purchase date to validate this warranty.
2. DigiTech warrants this product, when used solely within the U.S., to be free from defects in materials and workmanship under normal use and service.
3. DigiTech liability under this warranty is limited to repairing or replacing defective materials that show evidence of defect, provided the product is returned to DigiTech WITH RETURN AUTHORIZATION, where all parts and labor will be covered up to a period of one year. A Return Authorization number may be obtained from DigiTech by telephone. The company shall not be liable for any consequential damage as a result of the product's use in any circuit or assembly.
4. Proof-of-purchase is considered to be the burden of the consumer.
5. DigiTech reserves the right to make changes in design, or make additions to, or improvements upon this product without incurring any obligation to install the same on products previously manufactured.
6. The consumer forfeits the benefits of this warranty if the product's main assembly is opened and tampered with by anyone other than a certified DigiTech technician or, if the product is used with AC voltages outside of the range suggested by the manufacturer.
7. The foregoing is in lieu of all other warranties, expressed or implied, and DigiTech neither assumes nor authorizes any person to assume any obligation or liability in connection with the sale of this product. In no event shall DigiTech or its dealers be liable for special or consequential damages or from any delay in the performance of this warranty due to causes beyond their control.

NOTE: The information contained in this manual is subject to change at any time without notification. Some information contained in this manual may also be inaccurate due to undocumented changes in the product or operating system since this version of the manual was completed. The information contained in this version of the owner's manual supersedes all previous versions.

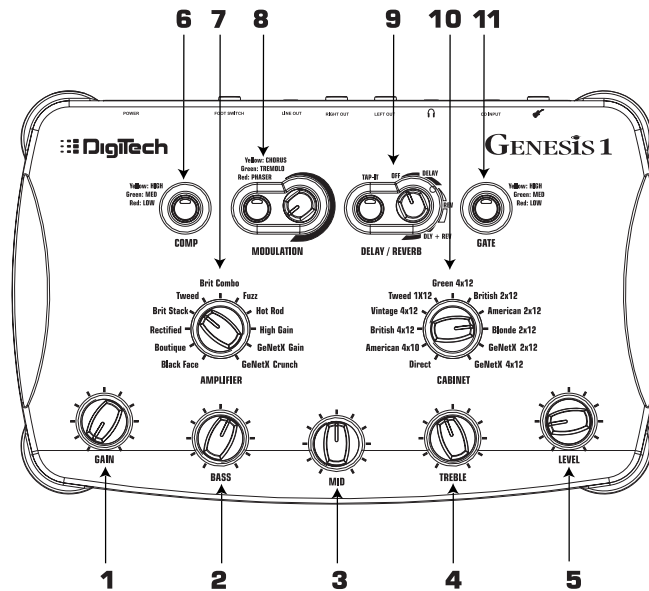


# Overview

The Genesis1 is a desktop amp modeling device featuring GENETX™ amp models, cabinets, and effects processing. Its simple user interface requires no programming. There are eleven amp and cabinet types to select from, and the amp models can be modified using the five gain and tone controls. There are also five effects (Compressor, Modulation, Delay, Reverb, and Gate) that can be used to enhance the sound.

## Front Panel

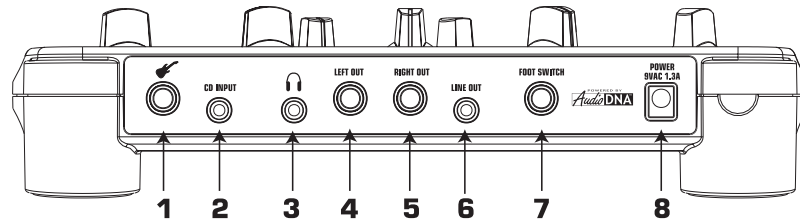
The Genesis1's front panel consists of the following:



1. GAIN knob - Adjusts the amp model's gain.
2. BASS knob - Adjusts the amp model's bass.
3. MID knob - Adjusts the amp model's mid.
4. TREBLE knob - Adjusts the amp model's treble.
5. LEVEL knob - Adjusts the amp model's level.
6. COMP button - Selects the amount of compression.
7. AMPLIFIER knob - Selects the amp model.
8. MODULATION button with knob - Selects the modulation effect type and adjusts the amount of effect.
9. DELAY/REVERB TAP-IT button w/knob - TAP-IT sets the delay repeats and the knob selects the Delay and Reverb effects and level.
10. CABINET knob - Selects the cabinet type.
11. GATE button - Selects the noise gate threshold.

## Rear Panel

The Genesis1's rear panel has the following connections:



1. Input - Plug your instrument into this jack.
2. CD INPUT (1/8" Stereo TRS) - Connect a CD headphone output to this jack.
3. Headphone Output - Plug stereo headphones to this jack.
4. LEFT OUTPUT - Connect an amplifier input, a power amp input, or line input of a mixing console to this jack.
5. RIGHT OUTPUT - Use this jack in conjunction with the left output for stereo applications. Connect a second amplifier input, or the right input of a stereo power amp.
6. LINE OUTPUT - (1/8" Stereo TRS) - Connect to a computer sound card input, or line level input with this jack.
7. FOOTSWITCH Jack - Connect the FS300 footswitch to remotely control effects to this jack.
8. POWER Jack - Connect only the Digitech PS913B power supply to this jack.

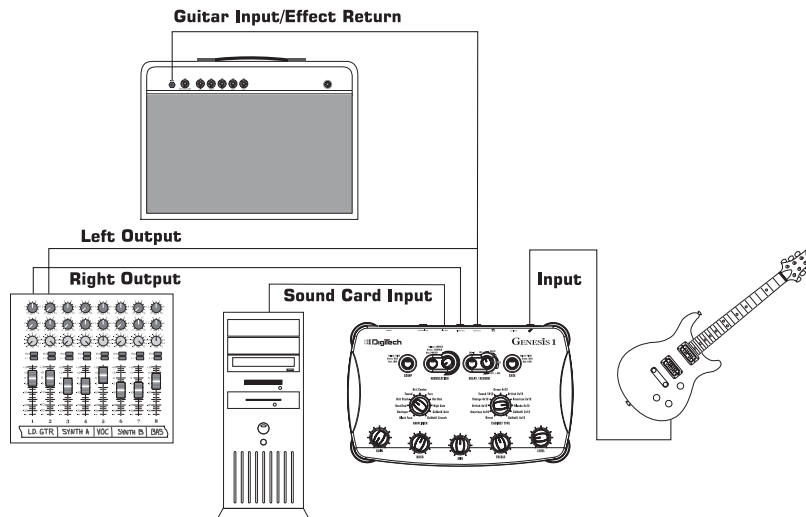
## Setup Connections

The Genesis 1 has several different connection options. You can run mono into an amp or power amp, stereo into two amps, stereo direct into a mixing console, direct into a computer sound card, or any combination of these. Before connecting the Genesis 1 to your system, make sure the Genesis 1 is OFF and your system is ON.

### Powering Up

1. Turn the volume completely down on your system.
2. Connect the Genesis 1's outputs to the inputs of your system.
3. Turn the **LEVEL** knob down to the minimum position on the Genesis 1.
4. Connect the power to the Genesis 1.
5. Bring up the volume on your system.
6. While playing, slowly turn up the **LEVEL** knob to the desired listening level on the Genesis 1.

Below are some examples for connecting the Genesis 1 to different types of systems. When running stereo into 2 channels of a mixer, be sure to set the channel pans to hard left and hard right:



## Footswitch Operation

If you have chosen to purchase the Digitech FS300 footswitch, you can remotely control the Genesis 1. Each button of the FS300 functions with the Genesis 1 as follows:

- Footswitch A - Bypasses modulation effects
- Footswitch B - Bypasses delay and reverb effects.
- Footswitch C - Bypasses all modeling and effects,

## Models and Effects Functions

The Genesis 1's user interface doesn't complicate things with programming functions. Its basic approach provides individual settings that the user can change, without the complexity of programming. The following explains how each control functions:

## Amplifier

The Genesis1 has eleven amp models to select from including 2 models created using GENETX™ technology. Rotate the **AMPLIFIER** knob to select the amp model you want to use. Each amp model is labeled on the front panel. The Amplifier knob has a pointer that identifies the selected model. The amp models are:

**Black Face:** '65 Fender Twin Reverb

**Boutique:** Matchless DC30

**Rectified:** Mesa Dual Rectifier

**Brit Stack:** '78 Marshall Master Volume

**Tweed:** '57 Fender Tweed Deluxe

**Brit Combo:** Vox AC30

**Fuzz:** A vintage fuzz distortion

**Hot Rod:** Mesa Boogie Mark II C

**High Gain:** A high gain tube amp

**GENETX™ Gain:** Rectifier and High Gain Hypermodel™

**GENETX™ Crunch:** Hot Rod and Brit Stack Hypermodel™

Marshall® is a registered trademark of Marshall Amplification Plc. Vox® is a registered trademark of Korg UK. Fender, Matchless, and Mesa Boogie, are trademarks of their respective companies and are in no way associated with DigiTech.

## Cabinet

The Genesis1 has ten cabinet types and one direct setting to select from. Rotate the **CABINET** knob to select the cabinet you want to use. Each cabinet type is labeled on the front panel. The Cabinet knob has a pointer that identifies the selected cabinet type. The cabinet types are:

Direct

American 4x10

British 4x12

Vintage 4x12

Tweed 1x12

Green 4x12

British 2x12

American 2x12

Blonde 2x12

GENETX™ 2x12

GENETX™ 4x12

## Compressor

The Genesis1 compressor is used to limit peak signals (LOW/MED) or to increase sustain (HIGH). The Compressor button has a 3-color LED (Red, Green, Yellow) that indicates the 3 different compressor settings.

Press the **COMP** button until the LED color lights with the setting you want to use. The compressor threshold is fixed, and the ratio and output gain are simultaneously controlled. As the compressor ratio increases, the output gain increases giving no apparent change in output volume, but compressing the signal to limit peaks and increase sustain. The compressor settings are: LOW (Red), MED (Green), and HIGH (Yellow). When the LED is off, the Compressor is bypassed.

## Modulation

The Genesis1 has 3 modulation effects to choose from: Chorus, Tremolo, and Phaser. Only one modulation effect can be selected at a time. The Modulation button has a 3-color LED (Red, Green, Yellow) that indicates the 3 different effects. Press the **MODULATION** button until the LED color lights with the effect you want to use. Turn the knob clockwise to increase the speed and intensity of each effect. For example:

**CHORUS** - A Chorus adds a short delay to your signal. The delayed signal is modulated in and out of tune and then mixed back with the original signal to create a thicker sound. Turn the knob to increase the speed and decrease the depth.

**TREMOLO** - A Tremolo modulates the volume of the signal at an even rate. Turn the knob to increase both speed and depth.

**PHASER** - A Phaser splits the incoming signal, takes it in and out of phase, and then mixes it back in with the original signal. Turn the knob to increase the speed and decrease the regeneration (depth remains fixed). To bypass the modulation, press the button until the LED goes off.

## Delay/Reverb

The Genesis1 is equipped with both delay and reverb. Delay records a portion of the incoming signal, and plays it back at a set time. Reverb gives the listener a sense that the music is being performed in various acoustical environments. Both delay and reverb can be used independently or they can be used together. The delay time is set with the TAP-IT button. Press the button at the rate you want the delay to repeat. The delay has a range of 100ms – 2.0 seconds. There are also 2 reverb types, Spring and Hall. The reverb type is dependent on which amp model is selected. Below is a list of reverb types associated with each model:

Black Face - Spring

Boutique - Hall

Rectified - Hall

Brit Stack - Hall

Tweed - Spring

Brit Combo - Spring

Fuzz - Hall

Hot Rod - Hall

High Gain - Hall

GENETX™ Gain - Hall

GENETX™ Crunch - Hall

The Delay/Reverb has a TAP-IT button, with a flashing LED (Delay Time), and a knob that adjusts Delay Level, Reverb Level, or Delay+Reverb Level. The Delay/Reverb knob has 3 ranges. The first range selects only the delay and controls the Delay Level. The second range selects only the reverb and controls the Reverb Level. The third range selects both the delay and reverb and controls both of their levels. To bypass the delay and reverb, turn the knob fully counter-clockwise to the "OFF" position.

## Gate

The Genesis1 has an adjustable noise gate with three threshold settings. The noise gate is designed to eliminate hiss and ambient noise while you are not playing. The noise gate has a single button with a 3-color LED (red, green, yellow). Each color represents a different noise gate threshold: HIGH (Yellow, MED (Green), and LOW (Red). The lower the threshold, the easier it is to open the noise gate. Press the Gate button until the LED color lights with the setting you want to use. To bypass the noise gate, press the button until its LED goes off.

## Specifications:

A/D D/A Converter: 24 bit  
Sampling Frequency: 44.1 kHz

### DSP Section:

Dual DSP architecture with true 24-Bit stereo processing @ 128 Million Instructions Per Second (MIPS)

### Connections:

Guitar Input and Outputs: 1/4" TS  
Headphone: 1/8" Stereo TRS  
CD Input: 1/8" Stereo TRS  
Line Output: 1/8" Stereo TRS

### General (all modeling and effects disabled):

S/N ratio: Greater than 96.5 dB (A weighted); ref = max signal,  
22kHz measurement bandwidth.  
Total Harmonic Distortion: Less than 0.009% (1kHz).

### Power Requirements:

US and Canada: 120 VAC, 60 Hz  
Japan: 100 VAC, 50/60 Hz  
Europe: 230 VAC, 50 Hz  
UK: 240 VAC, 50 Hz

Power Consumption: 10 watts  
Dimensions: Width 10.5" x Depth 6.6" x Height 2.25"  
Unit Weight: 1.1 lbs.

## DECLARATION OF CONFORMITY

Manufacturer's Name: DigiTech  
Manufacturer's Address: 8760 S. Sandy Parkway  
Sandy, Utah 84070, USA

declares that the product:

Product name: Genesis1  
Note: Product name may be suffixed by the letters EU, JA, UK and NP.

Product option: all (requires Class II power adapter that conforms  
to the requirements of EN60065, EN60742, or equivalent.)

conforms to the following Product Specifications:

Safety:	IEC60065 (1998) EN 60065 (1993)
EMC	EN 55013 (1990) EN 55020 (1991)

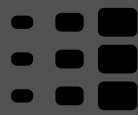
Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 72/23/EEC and the EMC Directive 89/336/EEC as amended by Directive 93/68/EEC.

DigiTech / Johnson  
8760 S. Sandy Parkway  
Sandy, Utah 84070, USA  
Date: August 31, 2001

European Contact: Your local DigiTech / Johnson Sales and Service Office or

Harman Music Group  
8760 South Sandy Parkway  
Sandy, Utah  
84070 USA  
Ph: (801) 566-8800  
Fax: (801) 568-7573



# **DigiTech<sup>®</sup>**

*The Power to Create*

*8760 South Sandy Parkway  
Sandy, Utah 84070*

*Telephone 801-566-8800  
FAX 801-566-7005*

*International Distribution:  
8760 South Sandy Parkway  
Sandy, Utah 84070  
Telephone 801-566-8800  
FAX 801-566-7005*

*DigiTech, GENETX™, and Genesis1 are trademarks  
of the Harman Music Group Incorporated*

*Copyright 2001  
the Harman Music Group*

*Printed in the U.S.A. 8/2001  
Manufactured in the U.S.A.*

*Genesis1 Manual 18-0423-A*

*Please visit DigiTech on the World Wide Web at:  
<http://www.digitech.com>*

**H** A Harman International Company