Gefen tv

Auto Volume Stabilizer
w/Digital Audio Decoder
GTV-VOLCONT-D
User Manual

DOLBY
VOLUME
DIGITAL

ASKING FOR ASSISTANCE

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INTRODUCTION

Congratulations on your purchase of the GefenTV Auto Volume Stabilizer. Your complete satisfaction is very important to us.

GefenTV

GefenTV is a unique product line catering to the growing needs for innovative home theater solutions. We specialize in total integration for your home theater, while also focusing on going above and beyond customer expectations to ensure you get the most from your hardware. We invite you to explore our distinct product line and hope you find your solutions. Don't see what you are looking for here? Please call us so we can better assist you with your particular needs.

The GefenTV Auto Volume Stabilizer

Annoyed by loud commercials? Enjoy listening to the same volume levels when watching any TV program or during commercials, no matter what is on. The GefenTV Auto Volume Stabilizer with Digital Audio Decoder product serves two functions: it is a high-quality volume stabilizer and also delivers a mixdown from a 5.1 channel to two-channel, Left Right audio using Dolby AC3 decoding. It actually makes the volume adjustments in such a subtle way that you won't even notice the change.

An additional feature includes a bypass button that allows the pass-through of unmodified incoming audio. Using Dolby Volume technology, the unit senses changes in volume levels, and then maintains a steady volume level for any input sound coming from DVD, Blu-ray or other multimedia source. Listen to movies and TV shows easily without the inconvenience of continuously fiddling with the volume levels.

How It Works

Place the GefenTV Auto Volume Stabilizer somewhere close to where you want to connect it. Connect the audio source into the back of the unit (either digital audio or analog). Connect the audio output of the unit to an A/V receiver.

Connect the included 5V DC external power supply to the back of the unit. The LED in the front will light up red showing that the unit is in "standby mode." Next push the "Bypass" button or press the "Power" button on the supplied I/R remote control, and the LED next to the "Bypass" button will go out while one of the three audio input LEDs will also light up bright blue. This corresponds to the chosen audio input at the back. Press the audio selector button at the back of the unit to select the audio input type.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR
OPERATING THE GEFENTV AUTO VOLUME STABILIZER

- GefenTV Auto Volume Stabilizer will use Dolby Volume technology to adjust volume automatically. It is best used for TV programming where the level of sound rises and falls to an unacceptable level.

- The device can be bypassed in situations where a wide dynamic range is appropriate (such as movies and classical symphony concerts).

- The remote can be used to control the GefenTV Auto Volume Stabilizer from a comfortable distance.

- This unit supports the following conversions:

  Analog to Analog (two-channel stereo to two-channel stereo).
  Analog to Digital (two-channel stereo to optical / coaxial).
  Digital to Digital (two-channel/multi-channel optical/coaxial to optical/coaxial).
  Digital to Analog (two-channel/multi-channel optical/coaxial to two-channel stereo).

- Dolby Digital (AC-3) encoded multi-channel sources will be converted to Dolby L/R when output on both the analog and digital outputs.

FEATURES

Features

- Prevent fluctuations in audio volume using Dolby Volume™ processing technology.
- Automatic down-mixing from Dolby Digital 5.1 (AC-3) to two-channel L/R on all outputs ensures compatibility with broadcast formats.
- Boosts low and high-frequency content dynamically (20 bands / channel) using an advanced psycho-acoustic modeling engine. Prevents loss of audio fidelity regardless of audio level. Enables consistent volume levels at all times between TV channels and between program materials.
- Volume Modeler: Delivers the perception of a full-range audio experience at any volume level. For example: the Volume Controller will dynamically adjust bass and treble in order to compensate for audible frequencies lost due to low volume.
- Built-in analog-to-digital and digital-to-analog conversion.
- Bypass Mode permits audio to pass through unmodified by Dolby Volume™ processing (Dolby Digital™ 5.1 is down-mixed to two-channel L/R format).
- All outputs remain active regardless of the input selection.
- The Input Select button allows choice between analog L/R, Coax, or Optical inputs.
- Standby Mode for low-power consumption.

Package Includes

(1) Auto Volume Stabilizer w/Digital Audio Decoder
(1) Analog Audio L/R Cable
(1) 5V DC Power Supply
(1) IR Remote
(1) User's Manual

PANEL LAYOUT
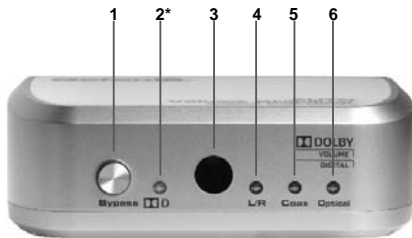
Front Panel   *Back Panel*
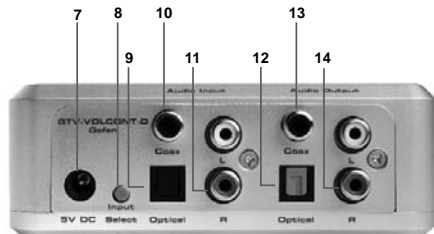
*LED Mode Table

Mode	LED Color
Standby	Red
Dolby Digital + Dolby Volume On	Blue
Dolby Digital + Dolby Volume Off	Purple
LPCM + Dolby Volume On	Blank
LPCM + Dolby Volume Off	Red

1 **Bypass Button**
Used to place the unit in Bypass Mode, allowing the signal to pass through unmodified.

2 **Bypass LED**
Indicated the current state of the unit. See Page 4 and 6 for details.

3 **I/R Port**
Used to communicate with the included I/R remote

4 **L/R LED**
The LED will turn blue to indicate the audio source is set to L/R analog

5 **Coax (S/PDIF) LED**
Turns blue to indicate that the audio input is set to Coax

6 **Optical (TOSLINK) LED**
Turns blue to indicate that the audio input is set to Optical

7 **5V DC Power Receptacle**
Connect the included 5V DC power supply to this port

8 **Input Select Button**
Used to select between L/R audio, Coax, and Optical inputs

9 **Optical (TOSLINK) Input**
Connect an Optical cable from this port to the Optical output port on the A/V equipment

10 **Coax (S/PDIF) Input**
Connect a Coax cable from this port to a Coax input port on the A/V equipment

11 **Analog L/R (RCA) Input**
Connect an RCA L/R stereo pair from these ports to the RCA L/R output pair on the source device

12 **Optical (TOSLINK) Output**
Connect an optical cable from this port to the Optical input port on the A/V equipment

13 **Coax (S/PDIF) Output**
Connect a Coax cable from this port to a Coax input port on the A/V equipment

14 **Analog L/R (RCA) Output**
Connect a L/R RCA stereo pair from this output to a L/R RCA stereo input pair on the A/V equipment

CONNECTING AND OPERATING THE AUTO VOLUME STABILIZER

How to Connect the GefenTV Auto Volume Stabilizer

1. Connect the audio source to the Audio Input section of the GefenTV Auto Volume Stabilizer using the Optical, Coax and / or L/R analog audio cables.

2. Connect another set of audio optical, coax, and / or L/R analog audio cables from the Audio Output section of the GefenTV Auto Volume Stabilizer to the input(s) of the A/V equipment.

3. Connect the included 5 V DC power adapter to the power receptacle on the rear of GefenTV Auto Volume Stabilizer. The LED next to the BYPASS button will turn red, indicating that the unit is powered and in Standby Mode.

4. Press the BYPASS button to enable Dolby Volume™ processing.

5. Bypass LED Status:
   - Red: Standby Mode / Dolby Volume™ processing disabled / LPCM audio.
   - Blue: Dolby Volume™ processing with Dolby Digital™ decoding.
   - Purple: Dolby Volume™ with Dolby Digital™ decoding disabled.
   - Off: LPCM audio with Dolby Volume™ processing disabled.

6. Select the desired input source (Optical, Coax, or L/R audio) by pressing the Input Select button on the back of the unit. The SELECT button on the IR remote may also be used to select the input source.

NOTE: All outputs are live regardless of the selected input.

BYPASS AND STANDBY MODES

Bypass Mode

Bypass mode is recommended when listening to music or watching movies which have a wide dynamic range. To place the GefenTV Auto Volume Stabilizer in Bypass Mode, press the Bypass button on the front panel. Bypass Mode can also be activated by pressing the BYPASS button on the remote (GTV-VOLC-IR). When the unit is in Bypass Mode, the Bypass LED will turn red. Dolby Volume™ processing is now disabled. To enable Dolby Volume™ processing, press the Bypass button on the front panel again or use the BYPASS button on the IR remote and the LED on the front panel will turn blue.

Standby Mode

Placing the GefenTV Audio Volume Stabilizer in Standby Mode allows the to minimize power (less than 1 W) when not in use. To place the GefenTV Auto Volume Stabilizer in Standby Mode, press and hold the BYPASS button on the front panel. After a few seconds, the Bypass LED will turn red indicating that the unit is in Standby Mode. Standby Mode can also be activated by pressing the BYPASS button on the remote (GTV-VOLC-IR). Once in Standby Mode, press the BYPASS button on the front panel to power-on the unit. The STANDBY button on the remote can also be use to power-on the unit from Standby Mode.

AUTO VOLUME STABILIZER REMOTE DESCRIPTION

Power On/Off

Bypass

Select Input

STANDBY

BYPASS SELECT

Gefen tv.

GTV-VOLC-IR

Insert Battery (included) underneath
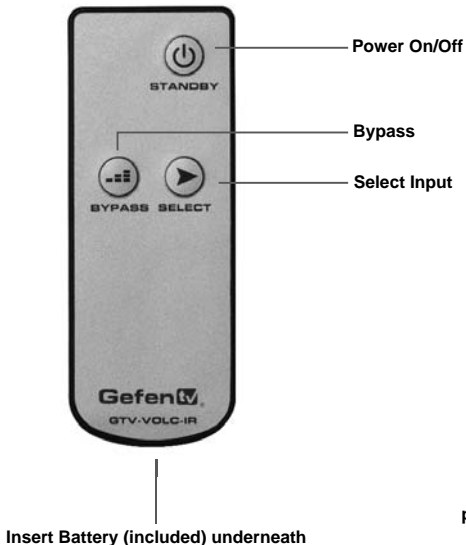
NOTE:
A battery tab inserted to protect the battery during shipping will need to be removed to allow the unit to work.

SPECIFICATIONS

Input (analog) .... 1x RCA-type connector

Input (digital) .... 1x SPDIF RCA-type connector

Input (digital) .... 1x TOSLINK optical connector

Output .... 1x RCA-type connector

Output .... 1x S/PDIF connector

Output .... 1x TOSLINK optical connector

Power supply .... 5 V DC

Power Consumption (max) .... 5 W

Audio Formats .... 2-channel LPCM, Dolby Digital™ 5.1 or 2-channel Stereo Analog audio

Signal-to-Noise Ratio (SNR) .... > 90 dB

Frequency Response Deviation .... < +/- 0.5 dB

Distortion .... < 0.001% at 0 dBFS or 2 V rms Analog In

Audio In Clipping Level .... 2.2 V rms

Input Impedance .... 47 kΩ

Max Output Level .... 1.5 - 1.7 V rms

Output Impedance .... < 500 Ω

Operating Temp .... 0° C ~ 40° C

Certifications .... UL (power supply), CE, EMC, RoHS