

# Gefen

## 1:3 Component Audio Distribution Amplifier

EXT-COMPAUD-143

USER'S MANUAL



[www.gefen.com](http://www.gefen.com)

## ASKING FOR ASSISTANCE

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### Notice

Gefen, LLC reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

**1:3 Component Audio DA** is a trademark of Gefen, LLC

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# INTRODUCTION

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Congratulations on your purchase of the 1:3 Component Audio DA. Your complete satisfaction is very important to us.

## **Gefen**

Gefen delivers innovative, progressive computer and electronics add-on solutions that harness integration, extension, distribution and conversion technologies. Gefen's reliable, plug-and-play products supplement cross-platform computer systems, professional audio/video environments and HDTV systems of all sizes with hard-working solutions that are easy to implement and simple to operate.

## **The Gefen 1:3 Component Audio DA**

The 1:3 Component Audio Distribution Amplifier is the perfect solution for anyone who needs to send one source of high definition component video and analog or digital audio to multiple displays at the same time. It supports all component equipment, such as DVD players and satellite set top boxes and all component displays. In operation, the component video source is connected to the distribution amplifier at the input. Three outputs are available to be used in part or in full. Once the unit is connected and powered, your source is routed to up to three component high definition displays at the same time.

# FEATURES

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## Features

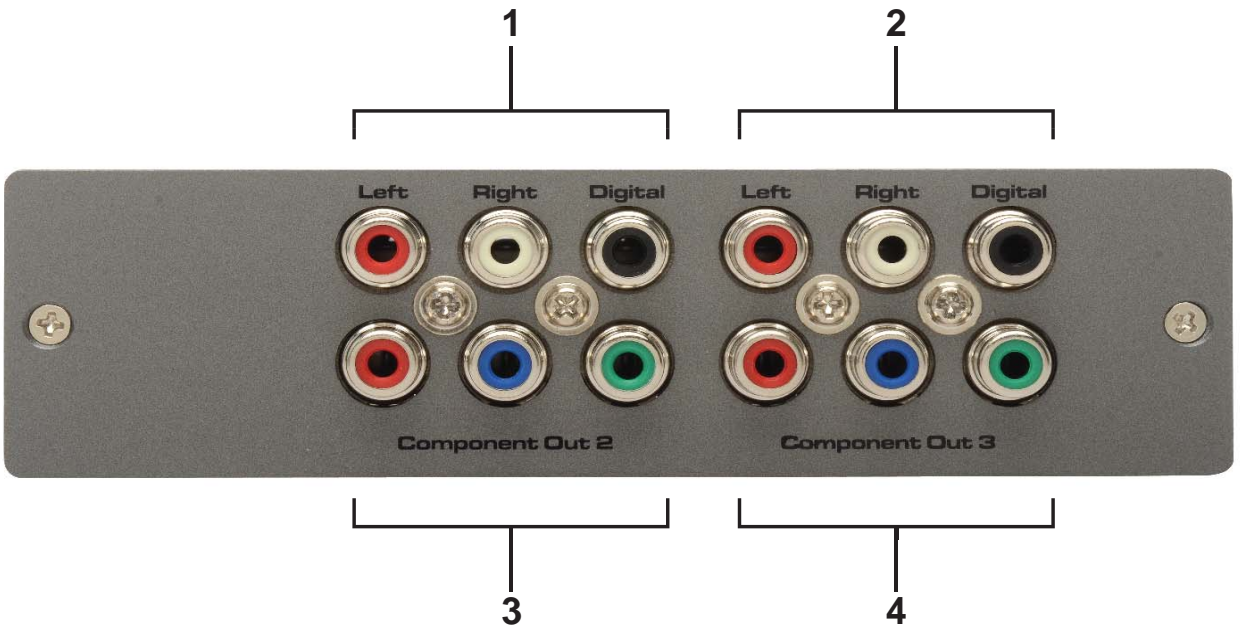
- Connects up to three component displays at the same time to one video source
- Support SD (composite, YCbCr) and HDTV (YPbPr, RGB) input signal
- Maintains 480p, 720p, 1080i, and 1080p resolutions
- Maintains high resolution video - beautiful HDTV resolutions up to 1080p are easily achieved video source at the same time

## Package Includes

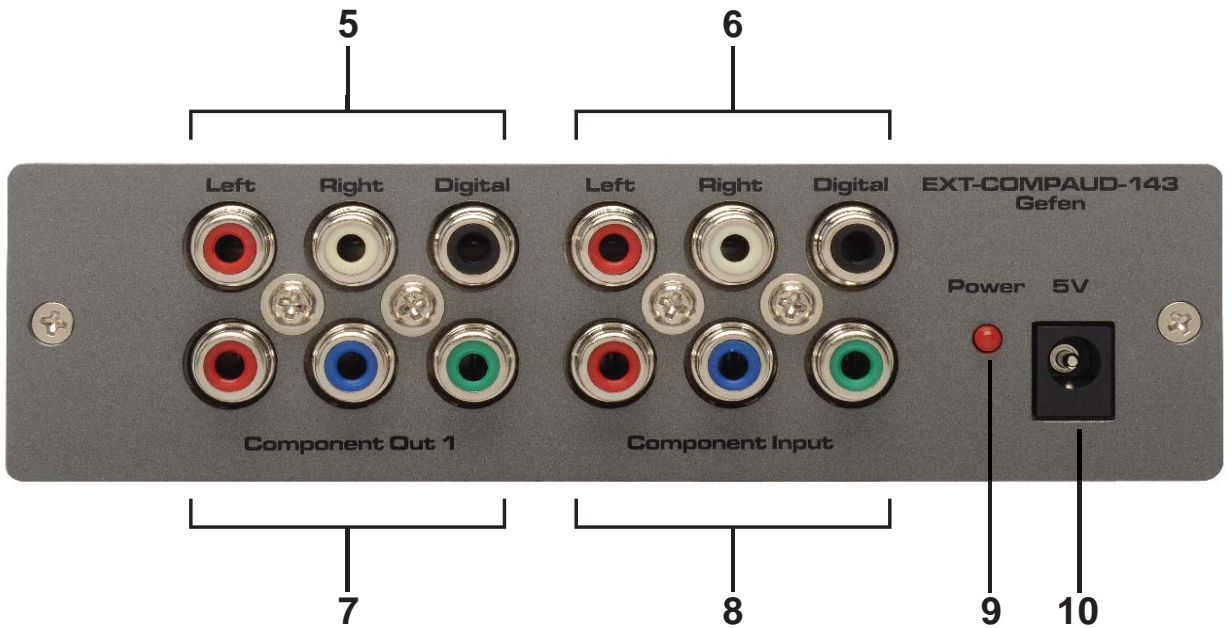
- (1) 1:3 Component Audio DA
- (1) 6ft Component cable
- (1) 5V DC Power Supply
- (1) Users Manual

# PANEL LAYOUT

## Front Panel



## Back Panel



## PANEL DESCRIPTIONS

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- 1 Component 2 Audio Output**  
Analog stereo L/R RCA audio outputs and one digital coaxial audio output. These outputs will mirror the inputs connected to the Component audio inputs.
- 2 Component 3 Audio Output**  
Analog stereo L/R RCA audio outputs and one digital coaxial audio output. These outputs will mirror the inputs connected to the Component audio inputs.
- 3 Component 2 Video Output**  
Component video outputs. This output will mirror the inputs connected to the Component video input.
- 4 Component 3 Video Output**  
Component video outputs. This output will mirror the inputs connected to the Component video input.
- 5 Component 1 Audio Output**  
Analog stereo L/R RCA audio outputs and one digital coaxial audio output. These outputs will mirror the inputs connected to the Component audio inputs.
- 6 Component Audio Input**  
Analog stereo L/R RCA audio inputs and one digital coaxial audio input. These inputs will be mirrored to all of the Component audio outputs.
- 7 Component 1 Video Output**  
Component video outputs. This output will mirror the inputs connected to the Component video input.
- 8 Component Video Input**  
Component video inputs. This input will be mirrored to all of the Component video outputs.
- 9 Power LED**  
This indicator will become active when the supplied Power adapter is connected.
- 10 5V DC Power Input**  
Connects to the supplied 5V DC power adapter.

# CONNECTING AND OPERATING THE 1:3 COMPONENT AUDIO DA

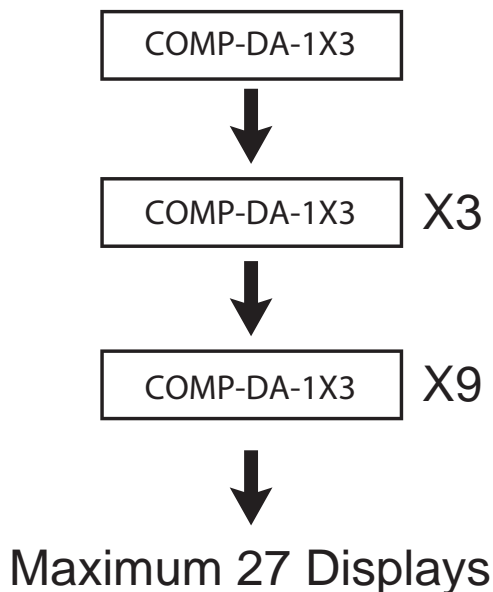
## How to Connect the 1:3 Component Audio DA

1. Connect the supplied Component cable from the source into the 1:3 Component Audio DA's input port.
2. Connect either a SPDIF digital audio or RCA analog right and left audio cable into the 1:3 Component Audio DA's audio input port.
3. Connect the Component and audio cables from your display(s) (up to 3) into the Component and audio out slots on the 1:3 Component Audio DA.
4. Plug the 5V DC power supply into the 1:3 Component Audio DA.
5. Plug the 5V DC wall mount power supply into the wall outlet.

**NOTE:** Both analog and digital audio outputs are active on all of the outputs. Also, Composite video can also be fed into the Component video input to split and distribute Composite video.

## Application Diagram

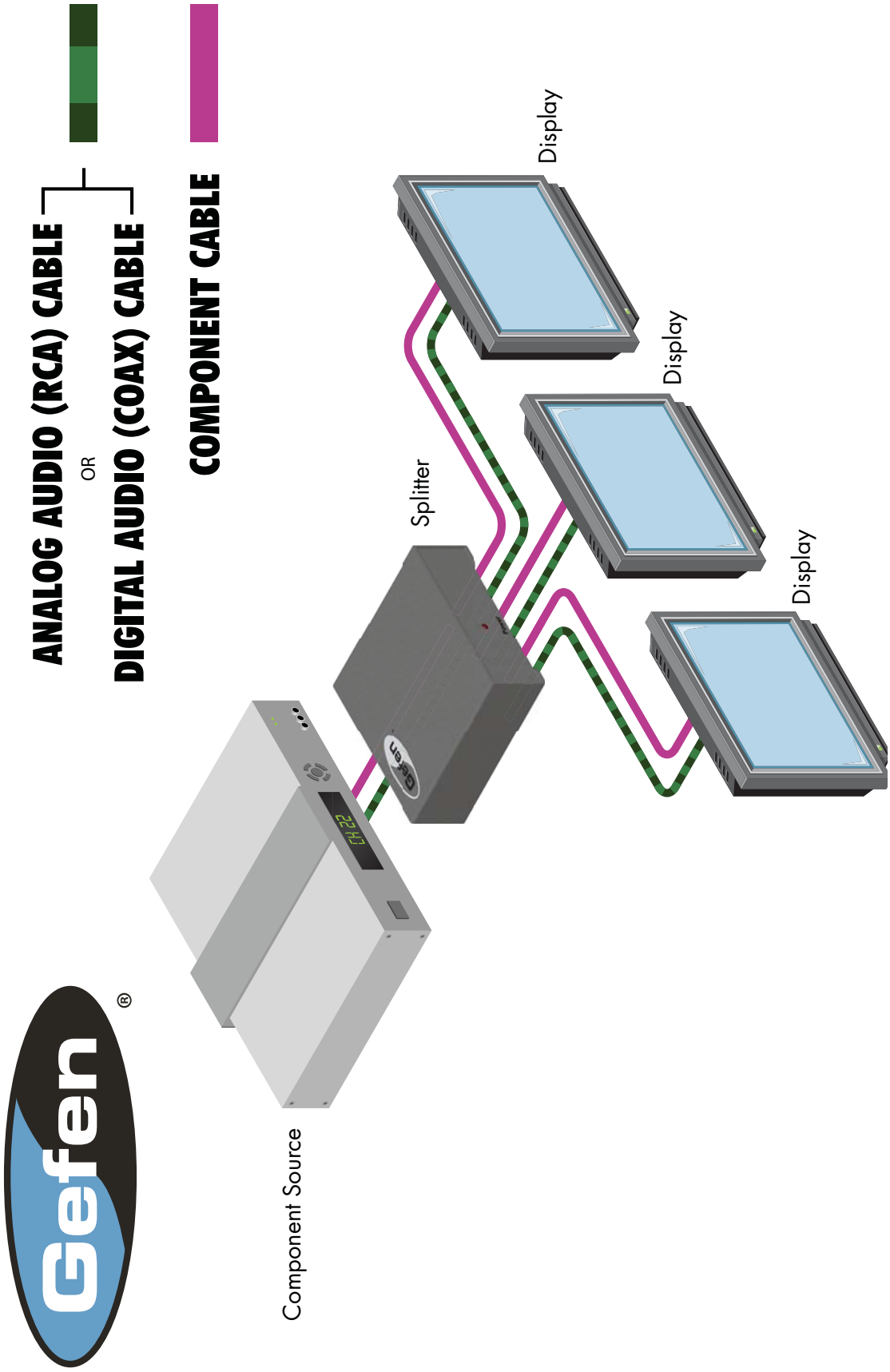
Multiple 1:3 Component Audio DA devices can be daisy chained together to distribute a single Component signal to 13 units maximum, for a total of 27 displays.



Maximum recommended distance of component cabling between each 1:3 Component Audio DA or display (1080p) is 50 ft. Maximum number of displays that are supported in a large 1:3 Component Audio DA system is 27.



# WIRING DIAGRAM



Component cable maximum distance is 50 feet at 1080p resolution without a EXT-COMPAUD-143

## SPECIFICATIONS

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Input .....	YPbPr x1 or RGsB x1 (or RGBHV), or Composite x 1 (1 Vp-p@ 75 Ohm)
Output .....	YPbPr x3, or RGsB(or RGBHV), or Composite x 3
Audio input .....	Digital (SPDIF) x1 + R/Lx1
Audio output .....	Digital (SPDIF) x3 + R/Lx3
Analog audio input/output .....	Audio 2 Vrms max 47k Ohm
Bandwidth .....	480MHz (-3dB)
Video Range .....	480i, 480p, 720p, 1080i, and 1080p
Differential gain .....	0.05%
Differential phase .....	0.05 degree
Power Supply .....	5V DC
Dimensions .....	5.5" W x 1.5" H x 3.65" D
Shipping Weight .....	3 lbs.

## WARRANTY

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Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

1. Proof of sale may be required in order to claim warranty.
2. Customers outside the US are responsible for shipping charges to and from Gefen.
3. Copper cables are limited to a 30 day warranty and cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the features and specifications is subject to change without notice.

For the latest warranty coverage information, refer to the Warranty and Return Policy under the Support section of the Gefen Web site at [www.gefen.com](http://www.gefen.com).

## PRODUCT REGISTRATION

**Please register your product online by visiting the Register Product page under the Support section of the Gefen Web site.**

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This product uses UL listed power supplies.