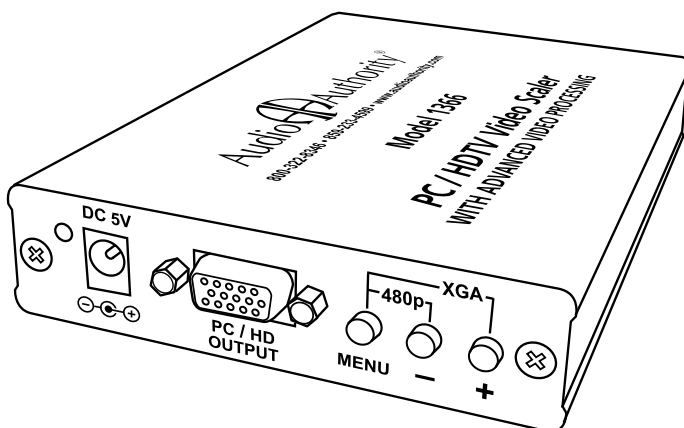# User Manual

PC / HD Scaler
with advanced video processing

- **VGA to Component Video**
- **Component Video to VGA**
- **VGA to VGA**
- **Component to Component**

Model 1366

Audio A Authority®

Audio**AA**Authority®

FC CE

Model 1366

PC / HD Scaler
with advanced video processing

Table Of Contents

1.0 INTRODUCTION

Thank you for purchasing a Model 1366 from Audio Authority. This multi-function scaler is the most practical VGA to component video scaler available, offering vital video processing features such as overscan control and scaling, eliminating the need for complex third party video software on the source computer. It is ideal for board room or classroom applications where different laptops may be used with an HDTV display. It allows the user to quickly adapt any analog PC video output to the exact requirements of any component video display. Other 1366 applications are PC to PC, HD to PC, and HD to HD.

Audio Authority offers an extensive line of audio and video switchers, converters, distribution amps and extenders available for purchase online at www.audioauthority.com or through authorized dealers.

1.1 INPUT AND OUTPUT CAPABILITIES

• PC input resolutions: RGBHV signals from VGA through WUXGA

• HDTV input resolutions: 480i through 1080p @ 60Hz

• PC output resolutions: RGBHV signals from VGA through WUXGA

• HDTV output resolutions: 480i through 1080p @ 60Hz

1.2 FEATURES

• Overscan, aspect ratio, and other scaling adjustments

• OSD user interface (On Screen Display)

• Contrast, brightness, hue, saturation, sharpness, RGB levels, and aspect ratio adjustments for output signals

• Passthrough output preserves the original source video format

• Locking power connector ensures system stability

2.0 CHECKING PACKAGE CONTENTS

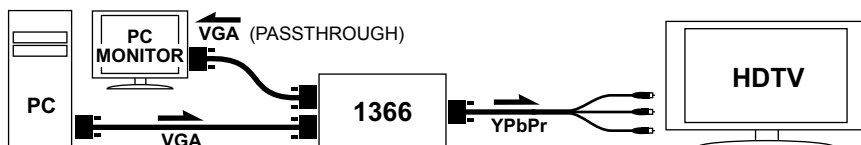Before connecting the 1366, please make certain the following items are in the shipping carton:

• 1366 scaler

• 5V DC power adapter

• VGA-15 to 3-RCA cable

• User manual

Note: Please retain the original packing material in case you need to return the unit. If you find any items are missing, contact Audio Authority immediately. Have the model number and invoice available for reference when you call.
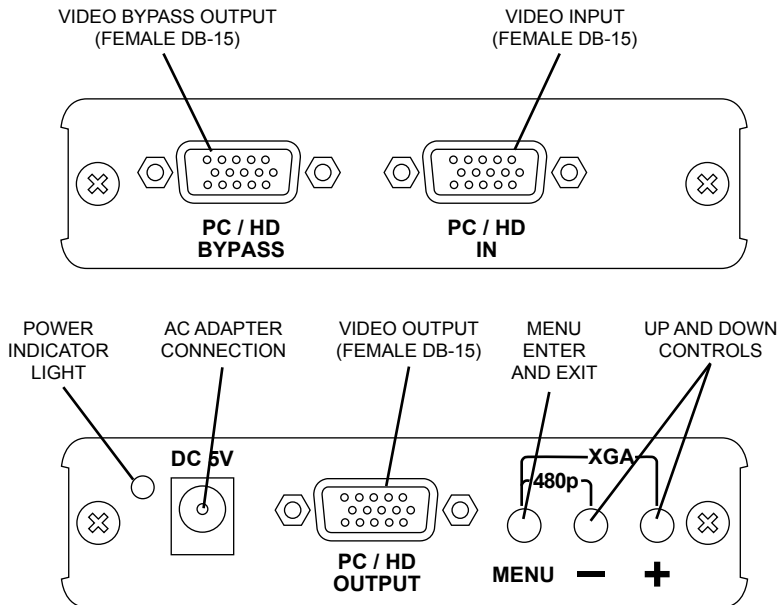
3.0 INSTALLATION

The installation procedure described in this manual is for converting a PC output signal to component video for an HDTV input. Other applications are possible with the 1366, and require similar steps but different connection cables and menu settings. See page 9 for a listing of supported resolutions.

3.1 GETTING THE BEST RESULTS

- **Output display device**. The quality of the output signal will depend largely upon the type and quality of display device used. For instance, HDTV displays may not be capable of displaying text as well as a computer monitor does.

- **Using Native Resolution.** It is always best to set the output resolution of the scaler to the native resolution and refresh rate of the display device. This allows the 1366 to do most of the scaling, which usually results in a superior picture.

- **Distance between the 1366 and the display device.** Long distances are possible, but use high quality (coax-type) cables to avoid signal losses from impedance and interference.

- **Output connection cables**. Low quality cables are susceptible to interference. They degrade signal quality due to poor matching and cause elevated noise levels. Therefore, cables should be of the best quality and identical lengths. Coax-type computer cables are recommended because of their superior internal shielding characteristics.

- **Interference.** Nearby electrical devices can have an adverse effect on signal quality. For example, older computer monitors often emit electromagnetic fields that can interfere with the performance of nearby video equipment.

VIDEO BYPASS OUTPUT (FEMALE DB-15)

VIDEO INPUT (FEMALE DB-15)

PC / HD BYPASS

PC / HD IN

POWER INDICATOR LIGHT

AC ADAPTER CONNECTION

VIDEO OUTPUT (FEMALE DB-15)

MENU ENTER AND EXIT

UP AND DOWN CONTROLS

DC 5V

XGA

480p

PC / HD OUTPUT

MENU — +

3.2 CONNECTING THE HARDWARE

• Turn off the computer or other video source and the HDTV display.

• Connect the appropriate PC video and component video cables: first between the source PC and the input of the 1366 and then between the 1366 output and the component video inputs on the display. The included VGA-15 to 3-RCA adapter is used to connect the 1366 output to component video input jacks.

• Optional: connect the bypass output of the 1366 to a computer monitor capable of accepting the computer's output video format.

• Plug in the provided AC adapter: first to the 1366 and then to an active AC power outlet.

• Turn on the computer (the video source) and the HDTV. The 1366 has no power switch and begins to function as soon as the AC adapter has been connected to a live outlet. Observe that the power light is on.

• If no picture is displayed on power up, perform the HD reset procedure as described in section 4.0 Operating the 1366.

4.0 OPERATING THE 1366

The 1366 is operated via an On Screen Display (OSD) menu. If you do not see a picture on the video display after power-up, hold down the MENU and (–) buttons to reset the 1366 to 480p. (For computer monitors, hold down MENU and (+) to reset to XGA resolution.)

MENU LEVEL 1	*MENU LEVEL 2*	*ADJUSTMENT*
CONTRAST		0 - 100 of Contrast Level
BRIGHTNESS		0 - 100 of Brightness Level
FINETUNE	• HUE	0 - 100 of Hue Level
	• SATURATION	0 - 100 of Saturation Level
	• SHARPNESS	0 - 100 of Sharpness Level
	• EXIT	Back to 1st Tier
COLOR	• RED	0 - 100 of Red Color Level
	• GREEN	0 - 100 of Green Color Level
	• BLUE	0 - 100 of Blue Color Level
	• EXIT	Back to 1st Tier
SIZE		FULL / OVERSCAN / UNDERSCAN / LETTERBOX / PANSCAN
OUTPUT		NATIVE / VGA / SVGA / XGA / SXGA /UXGA / 480i / 480p / 720p@60Hz / 1080i@60Hz / 1080p@60Hz / 576i / 576p / 720p@50Hz / 1080i@50Hz / 1080p@50Hz / WXGA / WSXGA / WUXGA
OSD	• HPOSITION	0 - 100 of OSD Horizontal Position
	• VPOSITION	0 - 100 of OSD Vertical Position
	• TIMER	0 - 100 of OSD Existing Time (sec.)
	• BACKGROUND	0 - 100 of OSD Transparent Level
	• EXIT	Back to 1st Tier
INFORMATION		SOURCE (Input Interface) INPUT (Input Resolution) OUTPUT (Output Resolution) VERSION (Firmware Version)
EXIT		Close OSD Menu

The menu structure on the previous page shows a two-level arrangement. Press the MENU button to enter the menu (level 1). Use the + and – buttons to move up and down level 1 options. Press MENU to select an option. If there is only one adjustment option, use the + and – buttons to make an adjustment. If there are several adjustment options use the + and – buttons to move to the option you wish to adjust, press the MENU button again to select an option and then use the + and – buttons to make the adjustment.

Use the MENU button to save your adjustment, then use + and – buttons to navigate to the next adjustment or choose EXIT to save your selections and leave the setup menu.

Reset Output Resolution
Hold down the MENU and (–) buttons to reset the 1366 to 480p (Y Pb Pr output). For computer monitors, hold down MENU and (+) to reset to XGA resolution (RGBHV output). Once an image is visible on the display, the resolution and other settings may be adjusted.

5.0 TROUBLESHOOTING GUIDE

No picture on the video display–check the following:

• Check the 1366 power LED, and make certain the AC adapter is plugged in to a working AC outlet.

• If power is present and the unit does not appear to operate, perform the Reset Output Resolution function described above.

• Check the input and output cables loose connections, and inspect the cables for damage, and/or substitute a known good cable.

Poor quality picture–check the following:

• Use high quality VGA and component video cables.

• Note: Many HDTV displays are not capable of displaying text as well as a computer monitor does.

• It is always best to set the output resolution of the scaler to the native resolution and refresh rate of the display device.

If problems persist, contact the Audio Authority Technical Service department via email: support@audioauthority.com, or call 800-322-8346 or 859-233-4599.

6.0 SPECIFICATIONS

I/O Signal Levels	RGBHV @ 0.7V p-p, 75 ohms, H&V Sync @ 3-5V p-p, TTL Y @ 1V p-p, 75 ohms. Pb, B-Y, Pr, R-Y @ 0.7V p-p, 75 ohms
I/O Connectors	HD15 female, (1) input, (1) bypass output, (1) output
Controls	Side panel buttons
Information Menu	OSD (On Screen Display)
Video Adjustments	Brightness, contrast, color, saturation, sharpness, R-G-B levels, aspect ratio
Weight	0.73lbs (332g)
Dimensions	HxWxD, inches: .98x4.16x6.18 (25x102x157mm)
Environmental	Operating temperature: +32° to +122° F (0° to +50° C) Operating humidity: 10% to 90%, non-condensing Storage temperature: +14° to +140° F (-10° to +60° C) Storage humidity: 10% to 90%, non-condensing
Power Source	AC-DC adapter 100~240VAC to 5VDC@2.6A

	VESA	*Resolution*	*Format and Refresh Rate*
Input Resolutions	VGA	640x480	RGBHV 60, 72, 75, 85Hz
	SVGA	800x600	RGBHV 56, 60, 72, 75, 85Hz
	XGA	1024x768	RGBHV 60, 70, 75, 85Hz
	WXGA	1280x768	RGBHV 60Hz
	SXGA	1280x1024	RGBHV 60, 75, 85Hz
	WSXGA	1680x1050	RGBHV 60Hz
	UXGA	1600x1200	RGBHV 60Hz
	WUXGA	1920x1200	RGBHV 60Hz
	480i	720x480 NTSC	YPbPr 60Hz
	576i	720x576 PAL	YPbPr 50Hz
	1080i	1920x1080	YPbPr 50, 60Hz
	480p	720x480	RGBHV, YPbPr 60Hz
	576p	720x576	RGBHV, YPbPr 50Hz
	720p	1280x720	RGBHV, YPbPr 50, 60Hz
	1080p	1920x1080	RGBHV, YPbPr 50, 60Hz
Output Resolutions	VGA	640x480	RGBHV 60Hz
	SVGA	800x600	RGBHV 60Hz
	XGA	1024x768	RGBHV 60Hz
	WXGA	1280x768	RGBHV 60Hz
	SXGA	1280x1024	RGBHV 60Hz
	WSXGA	1680x1050	RGBHV 60Hz
	UXGA	1600x1200	RGBHV 60Hz
	WUXGA	1920x1200	RGBHV 60Hz
	480i	720x480 NTSC	YPbPr 60Hz
	576i	720x576 PAL	YPbPr 50Hz
	1080i	1920x1080	YPbPr 50, 60Hz
	480p	720x480	YPbPr 60Hz
	576p	720x576	YPbPr 50Hz
	720p	1280x720	YPbPr 50, 60Hz
	1080p	1920x1080	YPbPr 50, 60Hz

7.0 LIMITED WARRANTY

If any consumer product from Audio Authority fails due to defects in materials or workmanship within one year from the date of the original sale to the end-user, Audio Authority guarantees that we will replace the defective product at no cost. Freight charges for the replacement unit will be paid by Audio Authority (ground service only). A copy of the invoice showing the item number and date of purchase (proof-of-purchase) must be submitted with the defective unit to constitute a valid in-warranty claim.

Units that fail after the warranty period has expired may be returned to the factory for repair at a nominal charge, if not damaged beyond the point of repair. All freight charges for out-of-warranty returns for repair are the responsibility of the customer. Units returned for repair must have a Return Authorization Number assigned by the factory.

This is a limited warranty and is not applicable for products which, in our opinion, have been damaged, altered, abused, misused, or improperly installed. Audio Authority makes no other warranties either expressed or implied, including limitation warranties as to merchantability or fitness for a particular purpose. Additionally, there are no allowances or credits available for service work or installation performed in the field by the end user.

7.1 WARRANTY SERVICE PROCEDURES

If you suspect a product defect, contact Audio Authority's Technical Service Department at 800-322-8346 or 859-233-4599 for assistance in verifying the problem. If a defect or potential defect is suspected, a replacement unit will be shipped immediately on a defect-exchange basis and a Return Authorization Number will be issued for the return of the defective product. Replacement units are sent out at the Manufacturer's Suggested Retail Price which is debited to the Customer's Credit Card at the time of shipment. Once we receive the defective unit back at the factory, it will be evaluated under the conditions of this warranty and if found to be in-warranty, a full credit will be issued to the Customer's Credit Card. Return freight charges for the defective unit are the customer's responsibility. Please contact our Technical Support Department for complete details concerning all in and out of warranty service matters.

We appreciate your confidence in our products and services and will always strive to meet or exceed your needs.

8.0 REGULATORY COMPLIANCE

The 1366 has been tested for compliance with CE and FCC rules and regulations. The power supply included has been tested for compliance with UL, CUL, CE, PSE, and GS regulations and guidelines. This product and its power supply are RoHS compliant.

9.0 CONTACT INFORMATION

If you have questions or require assistance with this product in areas not covered by this manual, please contact Audio Authority using the information below.

Audio Authority Technical Support
800-322-8346 M-F 8:30 AM to 5:00 PM, EST
International: 859-233-4599 Fax: 859-233-4510
Send email to: support@audioauthority.com

Audio Authority Corporation
2048 Mercer Road
Lexington, Kentucky 40511-1071
USA

Audio Authority®

2048 Mercer Road, Lexington, Kentucky 40511-1071
Phone: 859-233-4599 • Fax: 859-233-4510
Customer Toll-Free USA & Canada: 800-322-8346
www.audioauthority.com