User Manual
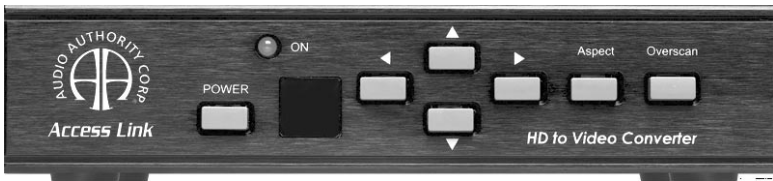
Model 1361

High Definition to Standard Definition Video Converter

Audio Authority®

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1.0 INTRODUCTION

Thank you for purchasing this 1361 Video Converter from Audio Authority. The 1361 has many uses, but the vital need it answers is in a mixed signal distribution system. Many satellite receivers and cable boxes do not offer simultaneous output on YPbPr and composite ouputs. To distribute the same signal to TVs with HD component inputs as well as TVs with composite or S-Video inputs, a quality down-converter is required. Model 1361 converts an HD component or PC video signal to standard analog NTSC or PAL video. Output is either composite and S-Video or standard definition component (YCbCr) format, with a simultaneous HD pass-thru. Audio Authority also offers an extensive line of audio and video switchers, converters and distribution amps available for purchase online at www.audioauthority.com.

1.1 Liability Statement

Every effort has been made to ensure that this product is free of errors. Audio Authority cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user of the hardware to check that it is suitable for his/her requirements and that it is installed correctly. All rights reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

Audio Authority reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

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1.2 FEATURES
• Switchable PC or HDTV inputs up to (1600x1200@60Hz) and 1080i
• NTSC or PAL outputs, composite, s-video or component
• Loop through inputs - both PC and HDTV
• Adjustable aspect ratio and image scaling: pan, position and zoom
• Remote control with on screen display
• PC in/out cable, component, composite and s-video output cables

2.0 SPECIFICATIONS

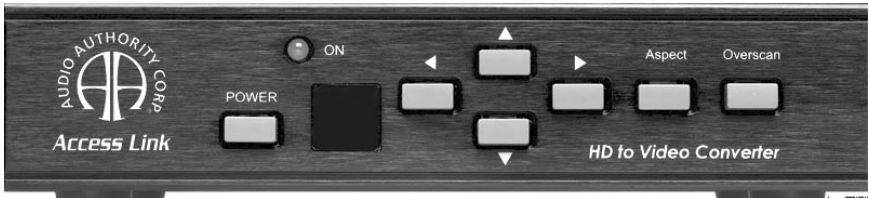| Video Input Connectors	
HDTV Component (YPbPr)	Three RCA female (loops to output)
PC	One HD-15 female (loops to output)
Video Output Connectors	
Composite	One RCA female
S-Video	4-pin Mini-DIN female
Component (YPbPr)	Three RCA female
HDTV Video	
PC	
Input Signal Characteristics	
HDTV Inputs Resolution Supported	480i, 480p, 576i, 576p, 720p, 1080i
PC Resolutions Supported	VGA, SVGA, XGA, SXGA, UXGA
Output Signal Characteristics	
Composite, S-Video	NTSC or PAL, interlaced
Component	YCbCr
Control Methods	
Local	Push buttons on unit + OSD
Remote	IR remote control w/OSD + RS-232
Mechanical	
Size (H-W-D)	2"x8"x6" (50x204x155mm)
Weight (Net)	2.2 lbs. (1kg)
Warranty	
Limited Warranty	1 Year, Parts and Labor
Power Requirements	
External AC Adaptor	5 VDC @ 2A
Regulatory Approvals	
Model 1361	FCC, CE
AC Power Adaptor	UL, CE, CSA
Accessories Included	
AC Power Adapter (USA)	
User Manual	
HD-15 to HD-15 VGA cable	
3-RCA to 3-RCA cable	
RCA to RCA component cable	
S-Video cable	
IR remote control	
Application Software CD	

3.0 CHECKING PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

• Model 1361 Video Converter

• AC Power Adapter (USA)

• HD-15 to HD-15 VGA cable

• 3-RCA to 3-RCA cable

• RCA to RCA component cable

• S-Video cable

• IR remote control

• Application Software CD

Note: Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact Audio Authority immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

4.0 CONNECTING THE HARDWARE

Please study the panel drawings below and become familiar with the signal inputs, outputs and control locations on the 1361.
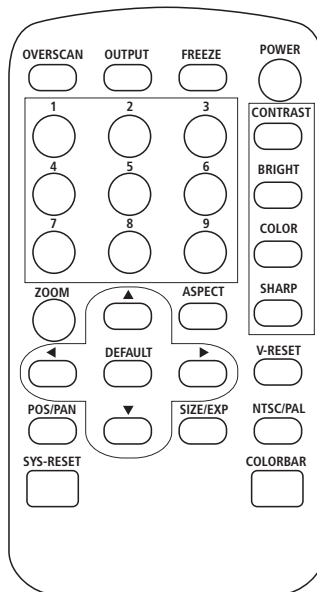

The POWER key switches between "standby" and "on". When the unit is turned on, the LED marked ON lights up. The infrared window, next to the POWER key, must remain unblocked so that the remote control can communicate with the 1361. The four keys with the arrows are used to position and pan the image. The ASPECT key allows switching between wide screen and standard display modes and the OVERSCAN key allows magnification of the image.

The inputs and outputs on the rear panel are clearly marked. Connect the appropriate cables to the inputs making certain that the cables are in good condition. The power switch (upper right in the view above) removes or applies power to the unit. If the switch is in the OFF position, the power switch on the front has no effect. The switch next to the power connector is used to switch between PC input and HDTV input.

5.0 OPERATING THE 1361

These instructions will focus on using the remote, since it has the complete array of functions, while the front panel buttons offer only the basic functions. Most of the 1361 buttons can be quickly understood by their labels, and the on-screen display gives more explanation for the complex functions. Refer to the explanations on the following pages to become familiar with all of the keys on the remote.
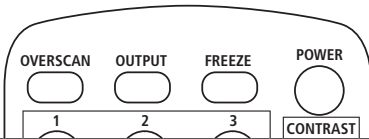
OVERSCAN: Toggles between over-scanned and under-scanned normal image

OUTPUT: Toggles between composite, S-Video and component outputs

FREEZE: Causes the image currently diplsayed on the screen to freeze

POWER: Switches between "on" and "standby"

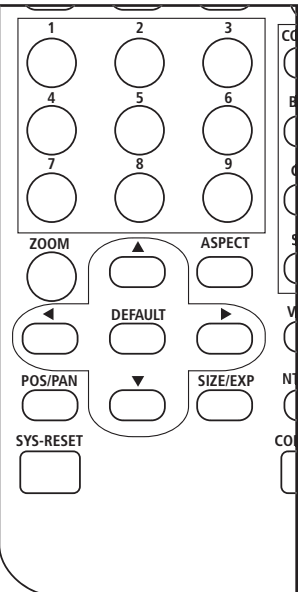| OVERSCAN | OUTPUT | FREEZE | POWER |
| 1 | 2 | 3 | CONTRAST |

The four keys in the corners shown below (ZOOM, ASPECT, POS/PAN, and SIZE/EXP) control picture manipulations and the arrowed keys work in conjunction with these four keys to do the actual manipulations. The DEFAULT key (in the middle of the arrow key matrix) returns the following parameters to factory presets: Zoom, Position, Size and Picture adjustments. Descriptions of the ZOOM, ASPECT, POS/PAN, and SIZE/EXP functions are shown below.

ZOOM: Press the ZOOM key to enlarge a section of the picture. Press it again to return to normal image size. When the ZOOM key is pressed, the picture is divided into nine zones. Pressing one of the numbered keys selects the portion of the image (the zone) you want to enlarge. The ARROW keys can also be used to move across the image.

POS/PAN: If the unit is in under-scan mode, pressing this button allows the user to position the under-scanned image anywhere on the raster using the arrow keys. If the unit is in the over-scan mode, pressing this key allows the user to pan the over-scanned image using the arrow keys.

ASPECT: This key toggles three modes. Full is the regular 4:3 aspect mode. The second toggle activates the Pan and Scan mode wherein you can adjust the image horizontally and vertically. The final toggle activates the letterbox mode.

SIZE/EXP: When in the under-scan mode, pressing this button allows the arrow keys to expand or shrink the image within the monitor's raster. If the system is in over-scan mode, the arrow keys set the degree of overscan.
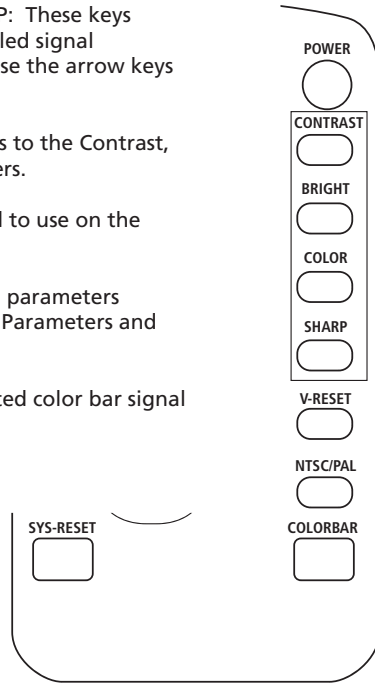
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CONTRAST, BRIGHTNESS, COLOR & SHARP: These keys allow adjustment to be made to the labeled signal parameters. Press one of the keys, then use the arrow keys to make adjustments.

V-RESET: Restores factory default settings to the Contrast, Brightness Color and Sharpness parameters.

NTSC/PAL: Selects the television standard to use on the 1361 output.

SYS-RESET: Restores factory presets to all parameters (Overscan, NTSC, 4:3 Aspect Ratio, Signal Parameters and CV/SV Output).

COLORBAR: Causes an internally generated color bar signal to appear on the unit's outputs.

POWER

CONTRAST

BRIGHT

COLOR

SHARP

V-RESET

NTSC/PAL

SYS-RESET

COLORBAR

5.1 RS-232 Operation

Software is included to allow control of the 1361 via a computer. The operation under RS-232 control is explained in the following pages.

5.1.1 Installing the Software

• Compatability: Windows 98/ME/2000/XP

• Place the CD in the drive and execute the setup.exe function from the CD.

• The computer will probably update some files causing the need to reboot after the initial setup has finished. If this happens, reboot and run setup a second time.

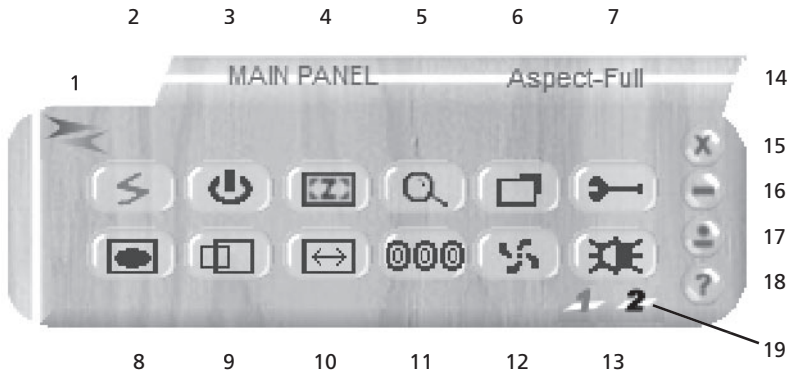• Once fully installed, click the taskbar menu (Start>Programs>Scan Converter) to start the RS-232 software.

Pinouts for RS-232 Cable

1361 Connector Pinout	PC Serial Connector Pinout
1, NC	1, NC
2, TxD	2, RxD
3, RxD	3, TxD
4, NC	4, NC
5, GND	5, GND
6, NC	6, NC
7, NC	7, NC
8, NC	8, NC
9, NC	9, NC

5.2 Main Panel

A main panel appears containing 15 icons that provide the control functions of the unit (icons 15 through 18 pertain to the application itself). Click an icon to perform a function.

Refer to the list of numbers below to learn the function of the icons.

Icon #   Function

1   Connection Status - If gray, there is no connection
2   Power On Indicator
3   System Reset
4   Zoom
5   Magnifier
6   Over/Under-scan
7   Option
8   Aspect
9   Pan/Position
10   Expand/Size
11   Output Format
12   Screen Freeze
13   Video Settings
14   Prompt Text
15   Close
16   Minimize
17   System Tray
18   About
19   RS-232 Com Port in Use

5.3 Sub-Menus

Certain keys cause a sub-menu to appear where the adjustments can be made. These keys are ZOOM, POSITION/PAN, SIZE/EXPAND, VIDEO SETTINGS, MAGNIFIER, OPTION, and ABOUT. Wherever the arrow and number keys appear, their function is just like the remote control. The upward facing arrow at the lower right returns to the main menu.
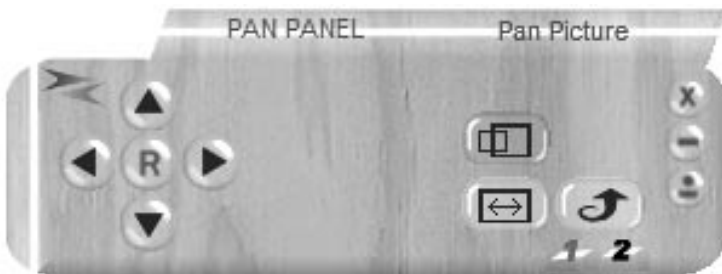
Zoom

The sub-menu below appears when you click the Zoom icon. Use the arrow keys or the number keys to make adjustments.

Position/Pan or Size/Expand

The sub-menu below appears when you click either the Position/Pan or Size/Expand icons.

Video Settings
The sub-menu below appears when you click the Video Settings icon.
The R icon on this panel resets these settings to factory default.

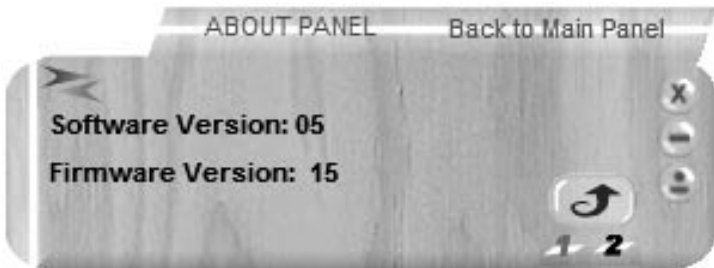**Option**
Click on the desired option.

Magnifier

This panel allows the adjustment of picture size. It is only available in PC mode.

1.5	Magnify the image 1 1/2 times
2.0	Magnify the image 2 times
S	Generate an undersize image
B	"Big" frame
Arrows	Image refresh
X	Close sub-menu

About

Software and firmware information.

6.0 TROUBLESHOOTING

If you experience difficulties, check for faulty cables or bad connections. Unexpected results may also be caused by choosing the wront output setting. Make sure the input resolution and refresh rate is within the specification of the 1361 and make sure the output format selected (composite, S-Video or YCbCr) is correct for the type of cable and connector being used at the output. Also make certain that you have selected the correct television standard (NTSC or PAL).

If the problem still persists after trying the above suggestions, contact the Audio Authority Technical Service department via email: support@audioauthority.com, or call 800/322-8346 or 859/233-4599.

7.0 LIMITED WARRANTY

Should any consumer use product from Audio Authority fail 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.

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 Service 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

This product complies with the relevant standards for FCC and CE approval.

The Power Adaptor/Supply has been tested for compliance with UL, CSA & CE Regulations.

9.0 CONTACT INFORMATION

Should 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 Service
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

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