

VGA to Video Converter ID# 424



Operation Manual

Introduction

The VGA to Video converter provides automatic conversion of PC desktop images to high quality video images for standard television viewing.

Features

1. Automatically saves your adjustment settings.
2. Pure hardware design- just Plug and Display, no software drivers or setup required.
3. Supports resolution standards up to 1600 x 1200.
4. Supports CVBS, S-VIDEO or RGB & Y.Cb.Cr video outputs with a simple switch change.
5. Programmable 2D scaling (without black frame on TV).
6. Powered from a USB or PS/2 port - no power adaptor required.
7. Simultaneous display on both TV and VGA monitors.
8. Simultaneous RGB and CVBS output signal available on RGB connector.
9. 24 bit, true color digitizer.
10. Panel Buttons: Power, Fine Tune, PAL/NTSC, Zoom, Menu and Position control function.
11. Y.Cb.Cr output supports all interlace formats including YUV, Y.Cb.Cr and Y.Pb.Pr.
12. PAL/NTSC button functions: NTSC, NTSC-EIAJ, PAL-M, PAL-N, PAL, PAL-COMBINATION-N.
13. MENU button functions: Freeze, Horizontal SIZE (H-SIZE), Vertical SIZE (V-SIZE), Brightness, Contrast, Hue, Saturation, Flicker, OSD color & Reset.
14. LED power indicator.
15. Independent Horizontal Size and Vertical Size adjustment (programmable 2D scaling).
16. 64 stages of output Brightness, output Contrast, output Hue, and output Saturation adjustment.
17. 16 stages of FINE TUNING (Sharpness), and Flicker adjustment.
18. Remote Control functions: POWER, VIDEO STANDARD, Position control, RESET, MENU, FREEZE, and ZOOM adjustment.
19. On Screen Display (OSD) operation status.

Support Mode And Resolutions

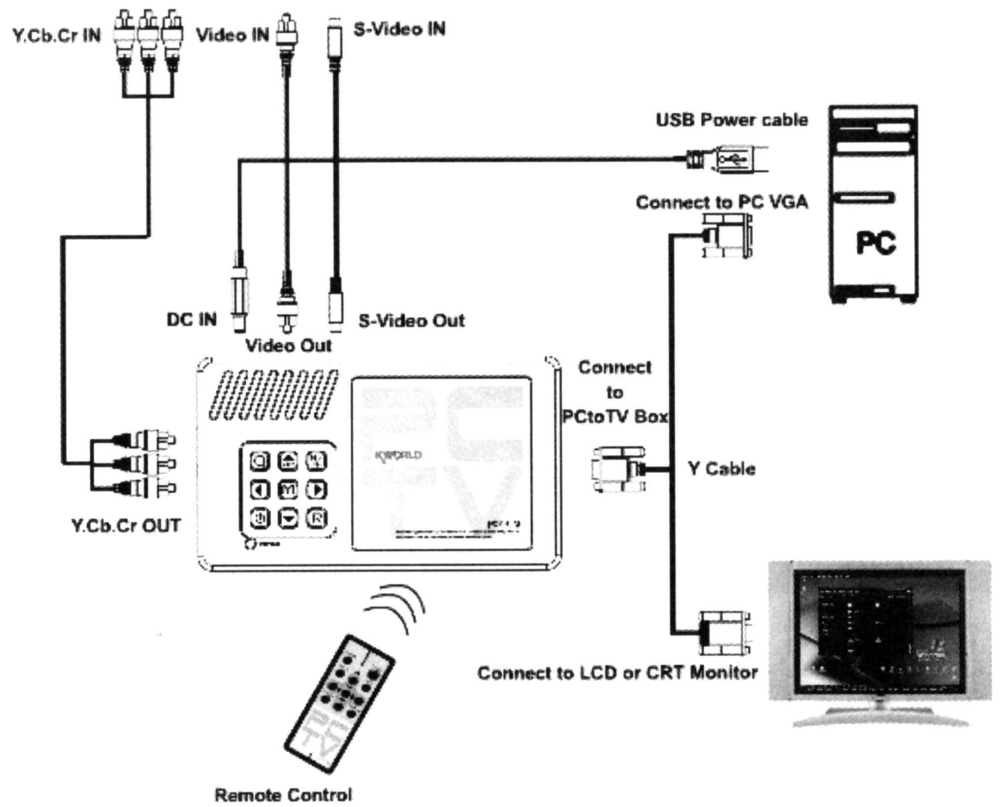
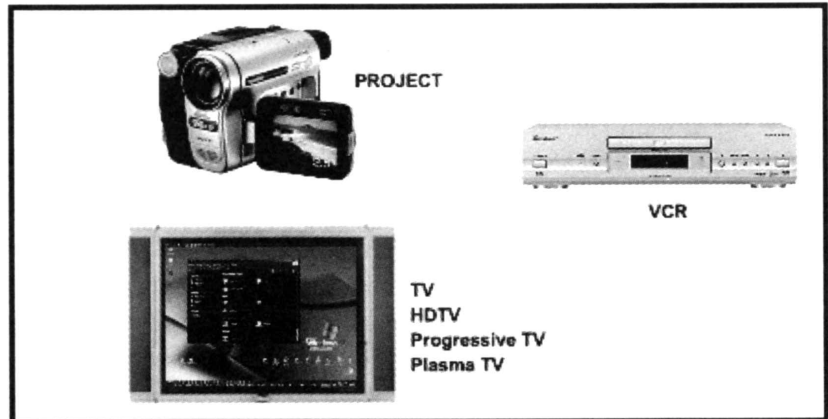
Resolution	IPC Compatible VGA mode	Apple MAC G4,G4 Cubic,G3	Apple iMac, iMac DV
	Vertical frequency (Hz)		
640x480	60,70,72,75,85,100,120	60,66,72,75,85,100,120	117
800x600	56,60,70,72,75,85,100	56,60,72,75,85,100	95
1024x768	60,70,72,75	60,70,75	x
1152x864	60,70,72,75	60,70	x
1280x960	60	x	x
1280x1024	60	x	x
1600x1200	60	x	x

System Requirements

1. IBM PC Compatible or notebook and Apple MAC.
2. Supports NTSC or PAL video standard TV or VCR.

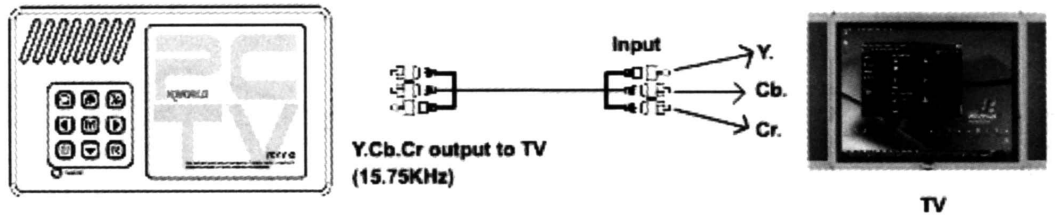


Hardware Connections

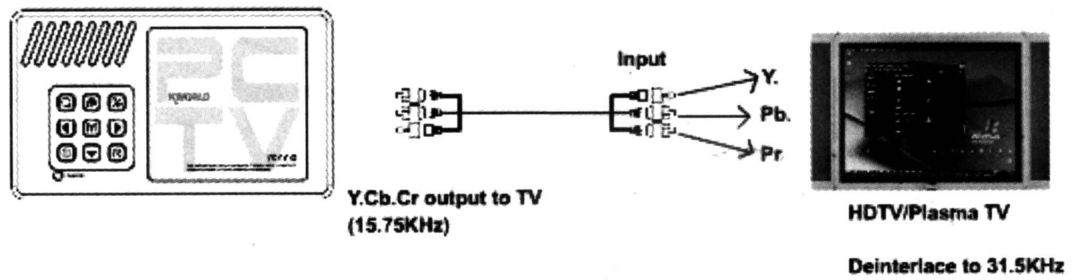


HDTV Connections

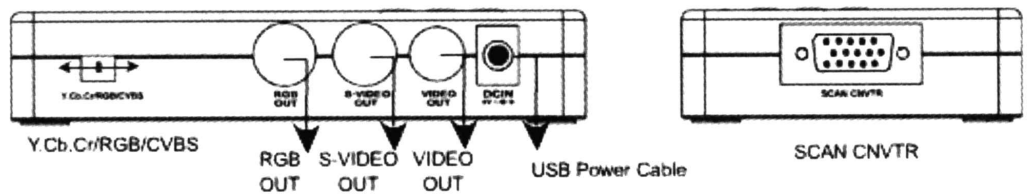
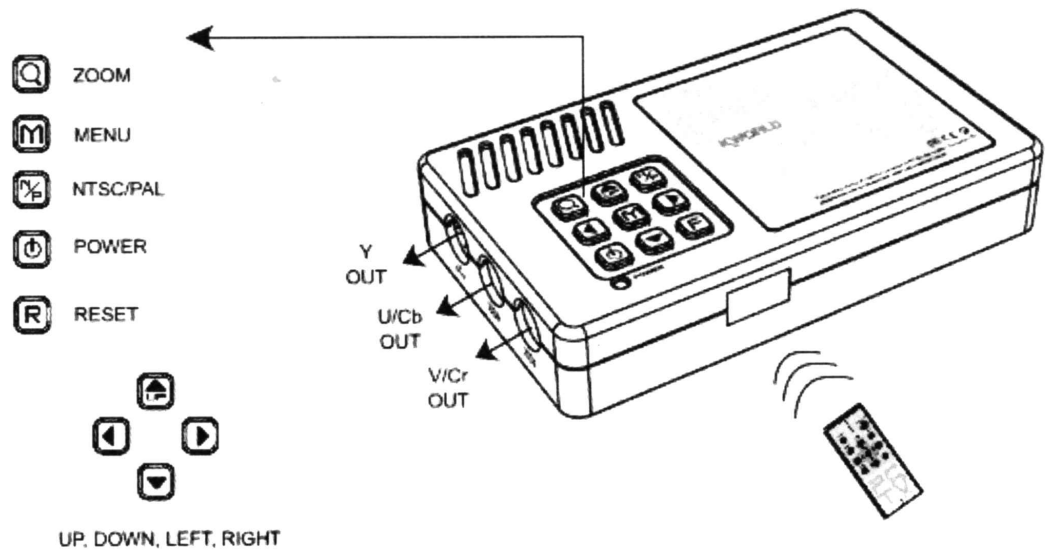
a. Connect to Standard TV



b. Connect to HDTV








Function Input/Output



Connections

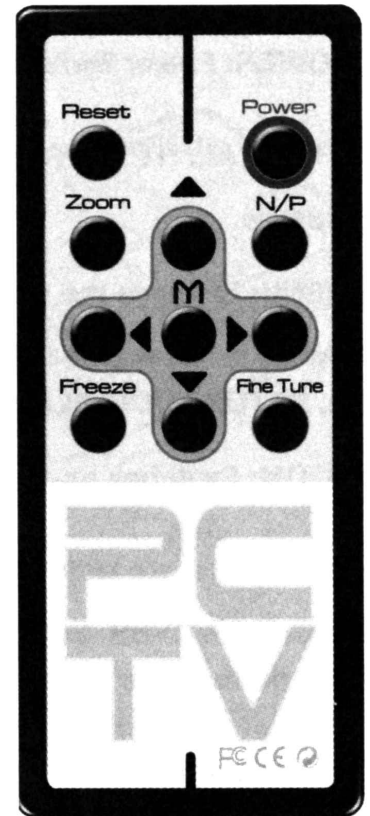
1. **SCAN CNVTR:** VGA signal input/output. Connect to the Y cable.
2. **RGB OUT:** Output RGB signal.
3. **S-VIDEO OUT:** Output S-VIDEO signal connects to TV or VCR.
4. **VIDEO OUT:** Output VIDEO signal, connects to TV or VCR.
5. **DC IN:** Connect USB power cable, obtains power from USB port on PC
6. **Y.Cb.Cr OUT:** Output Y.Cb.Cr signal, connects to TV or VCR.

Buttons and Switches

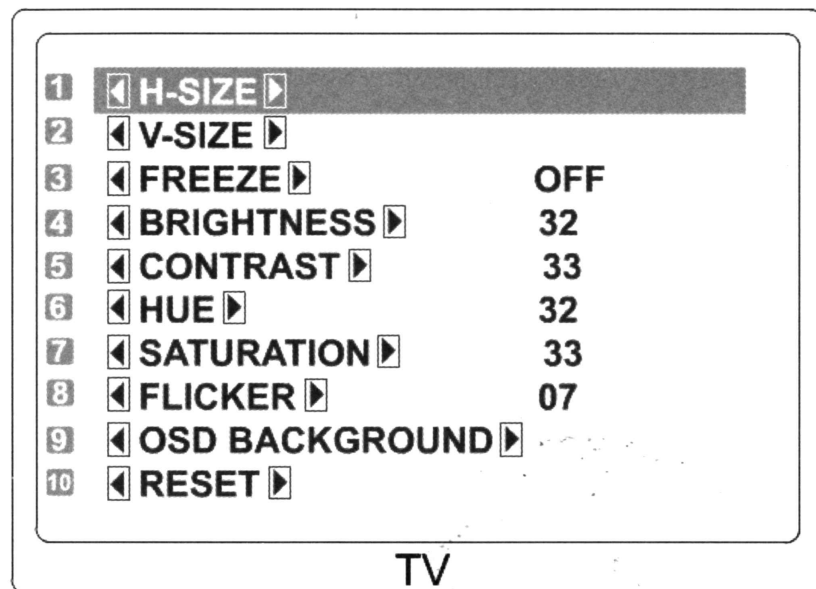
-  **POWER:** Power Switch.
-  **NTSC/PAL:** NTSC/PAL button switches between different TV Standards.
-  **MENU:** Displays the OSD menu on screen. Main menu controls the following functions: **H-SIZE, V-SIZE, FREEZE, BRIGHTNESS, CONTRAST, HUE, SATURATION, FLICKER, OSD BACKGROUND, RESET.**
-  **ZOOM:** Switches on-screen video between 2x ZOOM and normal.
-  **RESET:** Resets all functions to factory standard settings.
Y.Cb.Cr/RGR/CVBS: Switches between different output modes.
CVBS: Switches to CVBS for Composite Video and S-Video output mode. **RGB:** Switches to RGB for RGB output mode.
Y.Cb.Cr : Switches to Y.Cb.Cr for Component Video mode.

Remote Control

- a. **POWER:** Power switch.
- b. **RESET:** Resets all functions to factory standard settings.
- c. **N/P:** NTSC/PAL button switches between different TV Standards.
- d. **ZOOM:** Switches on-screen video from normal to 2x zoom.
- e. **M:** Displays the OSD menu on screen. Main menu controls: H-SIZE, V-SIZE, FREEZE, BRIGHTNESS, CONTRAST, HUE, SATURATION, FLICKER, OSD BACKGROUND, RESET.
- f. **FINE TUNE:** Reduces on-screen video shaking.
- g. **FREEZE:** Freezes on-screen TV image.
- h. **▲ :** Tilts screen UP.
- i. **▼ :** Tilts screen DOWN.
- j. **◀:** Pans screen to the LEFT.
- k. **▶:** Pans screen to the RIGHT.



OSD Menu



1. **H-SIZE:** Adjusts the horizontal size of on-screen video.
2. **H-SIZE:** Adjust the vertical size of on-screen video.
3. **FREEZE:** Freezes current TV screen.
4. **BRIGHTNESS:** Adjusts the video brightness 64 degrees. (Default value is 32).
5. **CONTRAST:** Adjusts the video contrast 64 degrees. (Default value is 32).
6. **HUE:** Adjusts the video HUE 64 degrees. (Default value is 32).
7. **SATURATION:** Adjust the video saturation 64 degrees. (Default value is 32).
8. **FLICKER:** The Flicker filter controls the width and height of the edge enhancement.
9. **OSD BACKGROUND:** Switches the OSD background color.
10. **RESET:** Resets all functions to factory standard settings.