PC/HDTV to PC/HDTV Converter ID# 81



Operation Manual



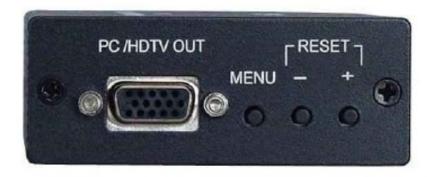
Introduction

This unit combines the functions of a video-scaler, scan-converter, and format transformer into a compact and durable metal housing with easy-to-use touch buttons.

Features

- The unit is not only is a video scaler it is also a scan converter and a format transformer.
- The resolution of any PC or HDTV inputs can be scaled up or scaled down to any other PC or HDTV resolution, along with its frame rate converted to a selectable frequency.
- 48 MB frame memory for frame rate conversion.
- Signal format conversion between RGBHV and YPbPr.
- Input: PC (VGA/SVGA/XGA/SXGA), HDTV (480i/576i/480p/567p/720p/1080i), FH: 60 to 85 Hz
- Output: PC (VGA/SVGA/XGA/SXGA), HDTV (480p/576p/720p/1080i)
- Input mode auto detection.
- Input Setup allows for fine-tuning the output picture to a best condition through the adjustment of ADC sampling clock, and phase.
- Easy to use push buttons and OSD menu control.

Operating Functions and Controls Front Panel





- 1. **Reset**/ **and** + The and + keys are used to adjust the selected parameter values. Pressing + and simultaneously resets the settings to the factory default values.
- 2. **PC/HDTV Out-** This is the PC/HDTV Output port
- 3. **Menu (Enter)-** The menu button brings up the OSD menu controls:
 - Input setup
 - Output setup
 - Picture adjust
 - HV adjust
 - OSD Adjust
 - System Information
 - Auto Adjust
 - Exit

Use + or – to move the arrow cursor to your desired selection, then press Menu

(Enter) to confirm your selection and enter into sub menu.

• **Input setup-** When it is selected, a sub-menu of clock and phase adjust will appear.

Use + or - to choose the parameter you want to adjust and then press the menu (enter) button to highlight your selection. Once a parameter is highlighted, use + and - to increase or decrease the value of the setting. Press Menu again to leave the setting. Move the arrow to exit then press Menu/Enter to exit.

- Output Setup- When it is selected use the + and buttons to choose your desired PC or HDTV output (choose desired output resolution).
- **Picture Adjustment-** When it is selected the following appear:
- Contrast- use the + and buttons to adjust the picture contrast level.
- Bright- Use the + and buttons to adjust the picture brightness level.
- Colour- Use the + and buttons to adjust the level of colour saturation.
 - Red- Use the + and buttons to enhance or decrease the level of red colour.
 - Green- Use the + and buttons to enhance or decrease the level of green colour.
 - Blue- Use the + and buttons to enhance or decrease the level of blue colour.
- Reset- Press this button to reset all adjustments back to factory-preset values.
- Exit- Press this button to exit this sub-menu.
 - **HV Adjust-** When this sub-menu is selected, H-position and V-position appear on the screen. Use the + and buttons to adjust the best horizontal and vertical position of the OSD menu.



- **System Information-** When it is selected, it shows the input/output resolution and their vertical refresh rate on the screen.
- **Auto Adjust-** When it is selected the unit will automatically adjust all the parameters to the factory-preset values.
- Exit- Select to exit from the current menu page.

NOTE- The default output resolution is XGA @ 60 Hz. The unit has last memory capability, thus can memorize all customers' settings before power off and recall those settings on the next power on. At any time of using the unit press + and - simultaneously and it will reset the output resolution to XGA @ 60 Hz, and other settings to their factory default value.

Rear Panel



- 1. **DC 12V 0.8A-** This is the power supply input port.
- 2. **PC/HDTV In-** This is the PC/HDTV input port.

Installation

- When accepting a PC input use the 15-pin D-Sub cable to connect the output of a PC device to the input connector (Number 2 on rear panel).
- When accepting a HDTV input use the 15-pin D-Sub to YPbPr/3 RCA cable to connect the YPbPr/Output (or YCbCr) of a HDTV device to the PC/HDTV input connector (Number 2 on the rear panel).
- The unit can automatically detect the mode and resolution of the PC/HDTV input.
- When one of the PC resolutions is selected as output, use the 15-pin D-Sub VGA cable to connect the PC/HDTV output (Number 2 on the front panel) to the VGA input of a display monitor.
- When one of the HDTV resolutions is selected as output, the 15-pin D-Sub to YPbPr/3 RCA adapter cable to connect the PC/HDTV output (Number 2 on the front panel) to the YPbPr input of a HDTV device.



Once all connections are complete please connect the power supply provided to the power socket.

Specifications

Input Format	RGBHV, YPbPr, YCbCr		
Input Signal Levels	RGB @ 0.7V p-p, 75 ohm. H&V Sync @ 3-5Vp-p,TTL Y @ 1V p-p, 75 ohm. Pb,Cb,Pr, Cr @ 0.7V p-p, 75 ohm		
Output Format	RGBHV, YPbPr		
Output Signal Levels	RGB @ 0.7V p-p, 75 ohm. H&V Sync @ 3-5V p-p, TTL Y @ 1 V p-p, 75 ohm. Pb,Pr @ 0.7V p-p 75 ohm		
Input/Output Connector Type	HD 15 Female		
Control	Front Panel Buttons		
Information Display	On Scerrn Display		
Video Adjustments	Brightness, Contrast, Color, R-G-B Levels		
Weight	10 oz. (280 grams)		
Dimensions-HxWxD	1.2" x 3" x 5.5" (30 x 75 x 140mm)		
Power Source	12VDC @ 800mA		

Input Signal Specifications

PC Resoluti	on	Vert Rate	Format	Scan Type
VGA VESA85 VGA70 SVGA XGA Mac WXGA 1280A SXGA	640 X 480 640 X 400 720 X 400 800 X600 1024X768 1152X864 1280X768 1280X960 1280X1024	60,72,75,85 Hz 85 Hz 70 Hz 60,72,75,85 Hz 60,70,75,85 Hz 70,75 Hz 60 Hz 60 Hz 60,75 Hz	RGBHV RGBHV RGBHV RGBHV RGBHV RGBHV	Progressive progressive Progressive Progressive Progressive Progressive Progressive
HDTV Resolutions		Vert Rate	Format	Scan Type
480p 480i 576p 576i 720p 1080i	720 x 480 720 x 480 720 x 576 720 x 576 1280 x 720 1920 x 1080	60 Hz 60 Hz 50 Hz 50 Hz 50,60 Hz 50,60 Hz	YPbPr, RGBHV YCbCr,RGBHV YPbPr, RGBHV YCbCr, RGBHV YPbPr, RGBHV YPbPr, RGBHV	Progressive Interlace Progressive Interlace Progressive Interlace

Output Signal Specifications

PC Resolution	n	Vert Rate	Format	Scan Type
VGA VESA85 VGA70 SVGA XGA Mac WXGA 1280A	640 X 480 640 X 400 720 X 400 800 X600 1024X768 1152X864 1280X768 1280X960	60,72,75,85 Hz 85 Hz 70 Hz 60,72,75,85 Hz 60,70,75,85 Hz 70,75 Hz 60 Hz 60 Hz	RGBHV RGBHV RGBHV RGBHV RGBHV RGBHV	Progressive progressive Progressive Progressive Progressive Progressive
SXGA	1280X1024	60,75 Hz	RGBHV	Progressive
HDTV Resolutions		Vert Rate	Format	Scan Type
480p 576p 720p 1080i/540p	720 x 480 720 x 576 1280 x 720 1920x1080	60 Hz 60 Hz 50,60 Hz 50,60 Hz	YPbPr, RGBHV YPbPr, RGBHV YPbPr, RGBHV YPbPr, RGBHV	Progressive Progressive Progressive Pseudo Interlance

