

SC-VGA-2

VGA / HDTV Video Processor

Scalable (Up/Down) Resolution & Mirroring Scan Converter

Change the
Resolution of your PC
or HDTV Video Signal
Convert from VGA to
YPbPr or Vice Versa

With
Output Mirroring Capability



The SC-VGA-2 is a high-performance universal VGA / HDTV to VGA / HDTV Scan Rate converter. It also offers the capability to "Mirror" the VGA input signal on the X-axis.

The Video Processor combines the functions of a video scaler, scan-converter, and format transformer and is packed into a compact and durable metal housing with easy-to-use touch buttons. The SC-VGA-2 is controlled via push button and OSD menu.

The controls include input/output setup picture adjustment, H/V phase adjustment, System information and many other advanced options.

The SC-VGA-2 allows you to specify a resolution and refresh rate for it's output. Then it will output a steady (uninterrupted) VGA signal to your display device at your specified rate regardless of the input. This effectively allows any VGA switch, such as HRT's VS-2 or VS-4, to become a seamless switch. The output timing is constant regardless of what is happening at the input. So when you switch from one input to another, the display device does not see any interruption in the signal. This eliminates blanking of screens which would otherwise occur during switching.

Features:

- The resolution of any PC or HDTV video signal can be scaled up or scaled down to any other PC or HDTV resolution
- Input: PC (VGA/SVGA/XGA/SXGA) @ 60-85 Hz + HDTV (480i 576i 480p 567p 720p 1080i),
- Output: PC (VGA/SVGA/XGA/SXGA) + HDTV (480p/576p/720p)
- Automatically detects input mode and timing parameters
- Can Mirror VGA output Horizontally; perfect for teleprompting and rear-projection systems
- Easy-to-use push-button OSD menu control
- Large Video memory for real-time frame rate capture & conversion
- Fine-tune the output picture (Position, Phase)
- Format conversion between RGBHV and YPbPr
- Packaged in portable EMI shielded enclosure

HRT
Since 1984

Hall Research

1-800-959-6439

1163 Warner Ave
Tustin, CA 92780

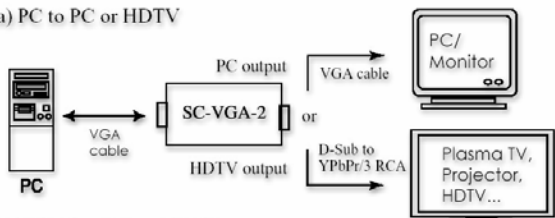
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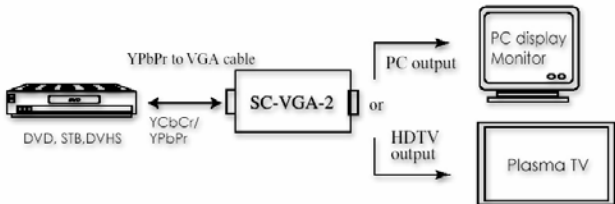
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Block Diagrams

(a) PC to PC or HDTV



(b) HDTV to PC or HDTV



Mirroring of the Output ...
... to the Output of the Input

A unique feature of the SC-VGA-2 is its ability to Mirror the output video.

This enables the unit to be used for Teleprompters as well as rear projection systems. When enabled, the output image is flipped about the X-axis (Horizontally).

The 24 bit color and full screen real-time Sampling provides a clean and crisp mirrored output image.

Specifications

General

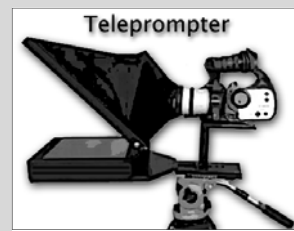
Input Format	RGBHV, YPbPr, YCbCr
Input Signal Levels	RGB @ 0.7V p-p, 75 ohm. H&V Sync @ 3-5V p-p, TTL Y @ 1V p-p, 75 ohm. Pb,Cb,Pr, Cr @ 0.7V p-p, 75 ohm
Output Format	RGBHV, YPbPr
Output Signal Levels	RGB @ 0.7V p-p, 75 ohm. H&V Sync @ 3-5V p-p, TTL Y @ 1V p-p, 75 ohm. Pb,Pr @ 0.7V p-p 75 ohm
Input/Output 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	115VAC to 12VDC @ 800mA In-Plug Switching Adapter

Input Resolutions

	PC Resolutions	HDTV Resolutions
VGA	640 X 480@60/72/75/85Hz	1080i 1920 X 1080@60Hz
VGA 70	720 X 400@70Hz	720p 1280X 720@60Hz
VESA 85	640 X 400@85Hz	576p 720X 576@50Hz
SVGA	800 X 600@60/72/75/85Hz	576i 720X 576@50Hz
XGA	1024 X 768@60/70/75/85Hz	480p 720 X 480@60Hz
Mac	1152 X 864@ 70/75Hz	480i 720 X 480@60Hz
WXGA	1280 X 768@60Hz	
1280A	1280 X 960@60Hz	
SXGA	1280 X 1024@60Hz	

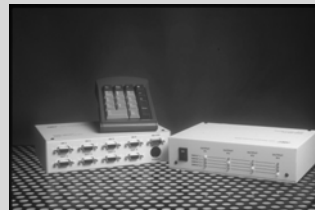
Output Resolutions

	PC Resolutions	HDTV Resolutions
VGA	640 X 480@60/72/75/85Hz	1080i-RGB 1920 X 1080@60Hz
VGA 70	720 X 400@70Hz	720p-RGB 1280X 720@60Hz
VESA 85	640 X 400@85Hz	576p-RGB 720X 576@60Hz
SVGA	800 X 600@60/72/75/85Hz	480p-RGB 720 X 480@60Hz
XGA	1024 X 768@60/70/75/85Hz	1080i-YPbPr 1920 X 1080@60Hz
Mac	1152 X 864@ 70/75Hz	720p-YPbPr 1280 X 720@60Hz
WXGA	1280 X 768@60Hz	576p-YPbPr 720 X 576@60Hz
1280A	1280 X 960@60Hz	480p-YPbPr 720 X 480@60Hz
SXGA	1280 X 1024@60/75Hz	



Other Products

VGA Matrix Switchers



Produce the ultimate presentation for your conference room, boardroom, trade show booth, courtroom, trading floor, auditorium, etc. with a Hall Research Technologies' video switch matrix. Perfect for providing real-time information updates on multiple screens.

Video over Cat5 Extenders

The Mini-Cat® can extend your VGA or Component HDTV Video Signal to 500 feet or longer.



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