

# INTRODUCTION

Thank you for purchasing VC-1024 . The VC-1024 is a universal VGA/SVGA to PAL/NTSC converter. GE-816 which is decently easy to use and with high compatibility by applying state-of-the-art frame buffer technology. The intelligent hardware automatically detects the video modes and scale the VGA signal properly on a TV screen without driver software. Special power saving technique enable use of PS/2 or AT Keyboard port as its power source whereas the special sub-carrier locking technique provide rock stable NTSC composite video output and 70% reduced dot crawl pattern for PAL composite video output. With its simplicity of operation and sophisticated design, the VC-1024 is the easiest to use and trouble free universal converter you can count on.

With VC-1024, you can record everything you see on the computer screen with a VCR or show your computer screen to your audience with a low-cost large screen TV. Recorded computer output is best used in exhibitions and presentations where either setting up a whole computer system is infeasible or no experienced personnel is present to operate the computer. It is also the ideal method of delivering training material on the usage of popular software at low production cost.

# PRODUCT FEATURES AND SYSTEM REQUIREMENTS

## Product Features

- VC-1024 is an External device to convert VGA signal to minimal flicker TV signal output.
- Supports 1024x768, true color operation.
- Supports Video Windowing Box for video titling.
- Provides composite signal, S-Video (S~VHS of Hi~8) and interlaced R,C,B (21~pin SCART,OPTIONAL) output.
- Provides non ~ interlaced VGA output for simultaneous display on VGA monitor.
- Switch selectable NTSC(60Hz/3.58MHz) or PAL (50Hz/4.43MHz) TV standard output.
- Switch selectable overscan and underscan mode.
- Switch selectable vertical / Horizontal position.
- Perfect combination with Notebook.

## System Requirements

- IBM PC or compatible with VGA or super VGA card; Macintosh computer or powerBook with monitor output.
- TV or VCR supporting NTSC or PAL video standard with composite video input, S~ Video input or SCART input connector.
- Television set with S~Video or SCART input required for sharp display of text data.
- Television set with SCART input required for display of thin vertical colored lines.

# ACCESSORIES AND INSTALLING VC-1024

## Accessories

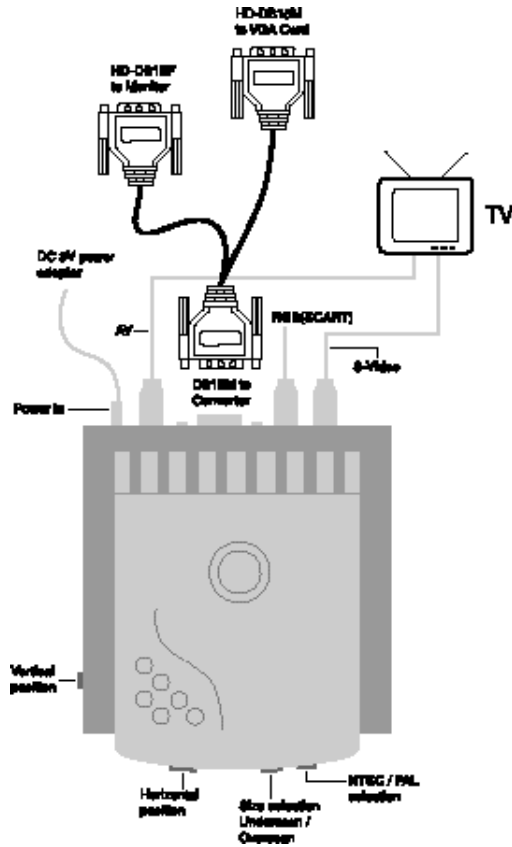
Be sure that the following accessories are all included with VC-1024. If any are missing, contact your dealer.

- GE-816
- Y~shape binary connectors to single connector cable (single male 15 pin & female 15 pin connector)
- Y~shape binary connectors to single connector cable for MAC;(Optional)
- DC9V power adapter
- Video cable
- S-Video cable
- User's manual


## INSTALLING VC-1024

### Hardware Installation

1. Turn off and disconnect the power cord of your computer and monitor from the wall electricity outlet.
2. Disconnect the video signal cable from the monitor output port of the computer.
3. Take out the Y~ shape cable from the package.  
Connect the wider 15~pin male connector (DB15M) to the VGA IN connector of the VC-1024
4. Connect the other 15~pin male connector of the Y~shape cable to the computer monitor output port.
5. If you want to display the computer output on the monitor simultaneously, connect the 15 ~ pin female connector of the Y ~ shape cable to the monitor cable.
6. Connect the composite or S~Video output to a television or a VCR. For highest quality, you can connect the VC-1024 to a European 21~pin SCART RGB connector (Optional) through the 9~pin mini DIN connector and connect it to the 21~pin RGB video input of the TV.



The SCART connector is commonly found in European TV models or large screen TV sets which gives highest possible quality output.

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7. If your TV does not has a video input, you may connect the composite antenna input of your TV to a VCR and connect the video output of the VC-1024 to the video input of your VCR.
  8. Plug back all the power cords and turn on your system.

### **Controls**

1. Horizontal Position : smooth horizontal screen centering using slider control.
2. Vertical position : smooth vertical screen centering using slider control
3. Size selection : Underscan or Overscan switchable
4. TV standard selection : PAL or NTSC switchible

# TROUBLE SHOOTING

- **No TV Output**

Press the Video select or AV button to select the video input from VC-1024 input form VC-1024.

if signal of VC-1024 goes through a VCR first, set the input option to external video for the VCR.

- **Text Not Sharp**

Use S-Video or a SCART connection.

Adjust sharpness of the TV to high level.

- **Ghost Image**

If ghost image only appears in Composite output, check that the TV and VC-1024 are the same.

If long cable used to connect VC-1024 to TV, use 75Ω co-axial cable.

- **Screen Rolling**

Check VGA cable connection.

- **Missing Characters**

Select underscan mode.

- **No Color**

Toggle PAL/NTSC switch.

Make sure color setting is not minimum.

If your TV is multi-system, set the standard to AUTO or the same as that output from VC-1024

- **Distorted Lines**

Reduce the brightness level of TV. If problem persists, choose a better TV model.

# SPECIFICATIONS

Function	VGA to composite, S-Video, and RGB signal converter.
System requirements	DOS and all Window variations, PC97, Plus basically all UNIX and custom OS. Television set accepting composite, S-Video or SCART input
Video Output	VGA, Composite, S-Video, and RGB.
Operating Environment	Operating temperature 10° -35 °C Storage temperature 5° -40 °C Operating humidity 15-85%
Dimensions	Approx. 142mm(L) X 123mm(W) X 27mm(H)
Net weight	Approx. 100gm

### Inputs:

VGA : 0-0.7V at 75 Ohm. Horizontal frequency 30-65 KHz

Power : 1.3mm jack, center + ve. 5V, nominal 350mA or 2mm jack, center  
+ ve. 7.5-10V, nominal 350mA

### Output:

VGA : 0.0-7V at 75 Ohm for RGB signal

Video : NTSC or PAL composition video output.

1v<sub>peak-to-peak</sub> at 7 Ohm

S-Video : NTSC or PAL Y/C video output

SCART : 50 or 60Hz RGB SCART output

### Video modes supported and automatically detected:

Video Mode	Refresh Rate
VGA text mode	70Hz
320 X 200 double mode	70Hz
640 X480 resolution	60Hz, 72Hz, 75Hz
800 X600 resolution	56Hz, 60Hz, 72Hz, 75Hz
1024 X768 resolution	60Hz, 70Hz, 75Hz
1152 X864 resolution	70Hz
1280 X1024 resolution	60Hz
Mac 640 X480 resolution	66.67Hz
Mac 832 X624 resolution	74.66Hz
Mac 1024 X768 resolution	74.95Hz

Modes not listed above or different from VGA and Vesa standard may be displayed with inappropriate centering.