

CORIO[®]gen Eclipse

Internal PCI/ISA Version

General Description:

The CORIOgen Eclipse PCI/ISA dual-format card is the ideal systems integration peripheral for overlaying computer generated text and graphics onto standard TV video signals, with powerful yet simple to use features.

The computer graphics are converted into standard PAL or NTSC video signals before being overlayed on to the incoming video signal by the mixer. Video breakout cables are supplied. To keep the quality high, at no point is the incoming video signal decoded - the computer signal is inserted / mixed into the incoming video signal, without degrading the source picture quality or affecting sync and subcarrier timing phase.

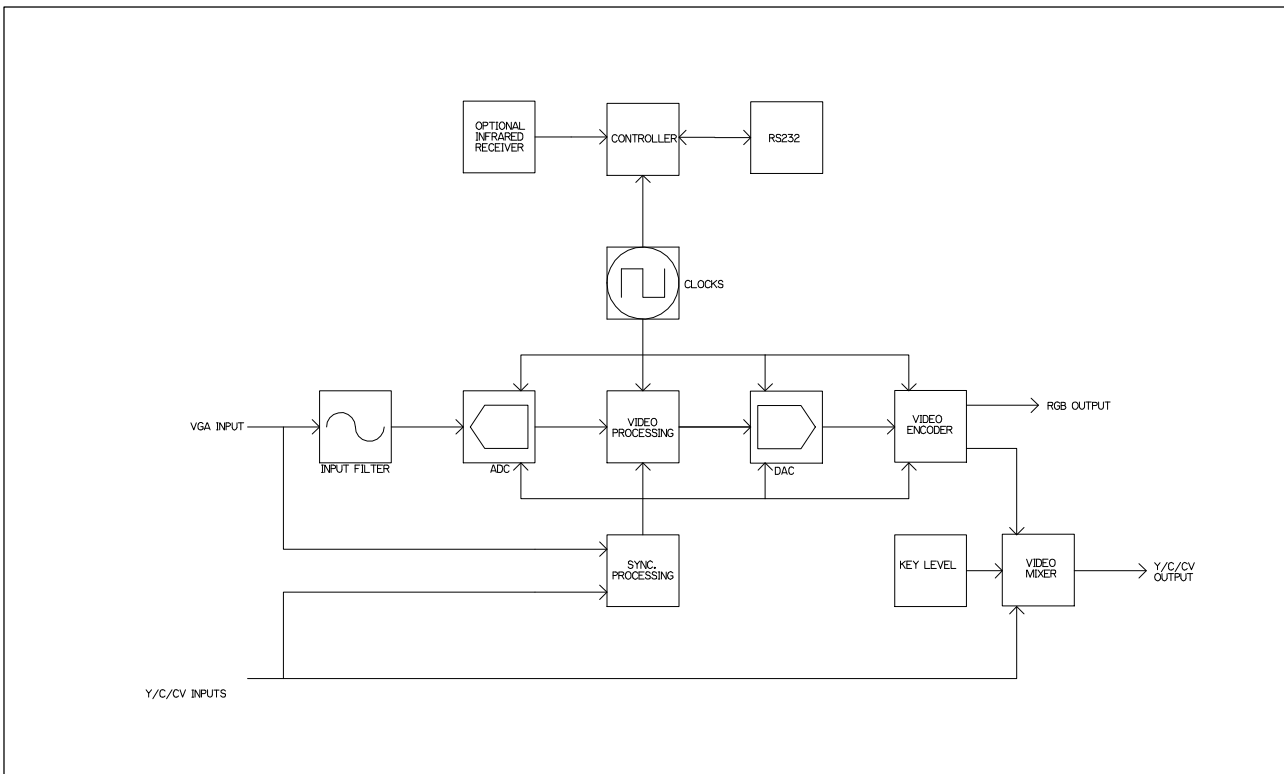
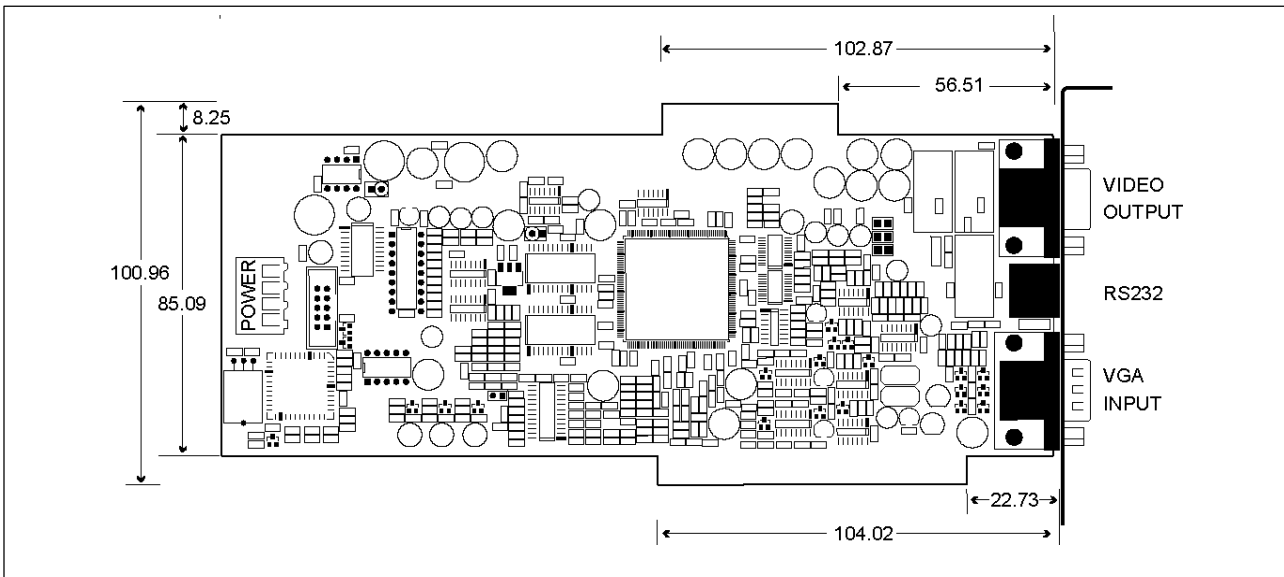
The VGA signal is fed into the unit using the supplied Y-splitter cable, which allows a computer monitor to be used at the same time.

The unit also has Vine's AutoSet facility. This automatically positions and sizes the computer resolution. This setting is then

saved in non-volatile memory and is recalled whenever this resolution is used again. Manual adjustment of the display setting is also available via various control methods.

As standard, RS232 is the sole method of control (cable included for 9-pin D connectors on your PC), using either your own software or Vine's CORIO Control Panel. As an optional extra, a hand-held Remote Control and an Infra-Red Receiver Module are available to enable control without the need for RS232 communications.

The PCI or ISA slots in your computer are used solely for holding the unit in place - no data or power connections are made to either of them. This prevents bus signal or timing compatibility issues, and means that the unit can even be mounted in other types of enclosure. Power is supplied from a spare hard-disk drive connector. You can simply remove the end-bracket, turn the card through 180 degrees, and replace the end-bracket in order to change format.



Input Specifications

- Absolute maximum 1600x1200
- Maximum 1024x768 (NTSC) or 1280x1024 (PAL) with no line dropping
- 24 bit compatible
- Approx. 24kHz to 100kHz horizontal scan rate
- Virtually any vertical scan rate accepted - horizontal scan rate is more important
- Separate TTL-level HSync & VSync positive or negative going

Output Signals

- Standard VGA output back to monitor via supplied Y-splitter cable
- Composite Video: 1 volt peak-peak on phono socket
- S-Video: 1 volt peak-peak on 4-pin mini-DIN
- RGB 0.7v p-p with composite video signal
- Breakout cables provide video input & output connections

Genlock / Overlay features

- Independently locks to sync & subcarrier.
- Digital sync noise cancellation improves use with VCRs.
- Subcarrier lock range +/- 200Hz NTSC, +/- 250Hz PAL approx.
- Subcarrier phase adjustment +/- 12 degrees.
- Mixer modes: PC Out, Genlock, Overlay, Mix.
- Built-in fader fades computer image in and out.
- Digital keyer, with adjustable key-level and variable hard/soft-key.
- Variable fade speed - from instant to 2.5 seconds.

Image Scaling & Positioning

- Proprietary scaling method
- AutoSet feature automatically scales computer image
- Underscan & Overscan settings user-adjustable
- 2x Zoom & panning Image filtering
- Proprietary 2 or 4 line flicker reduction

Control of unit

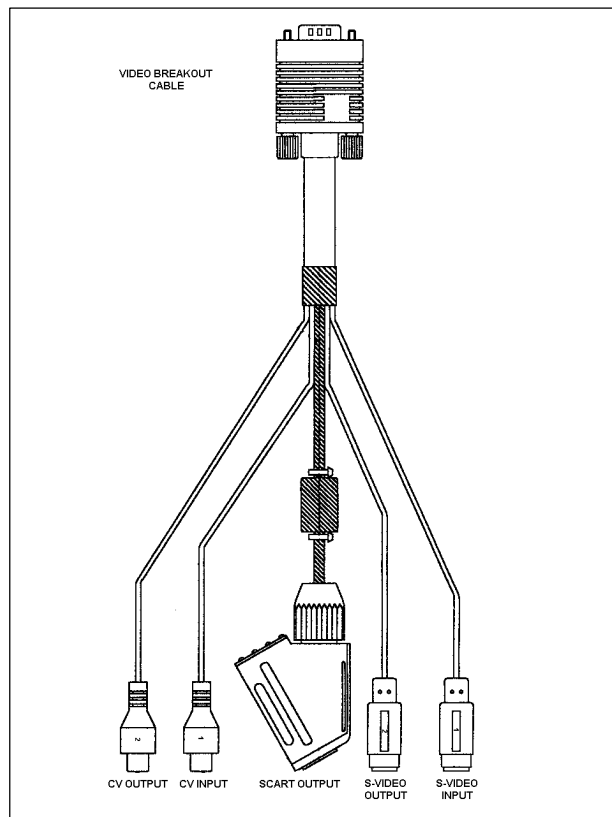
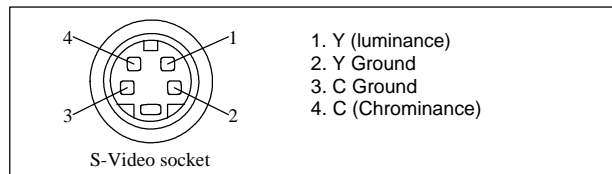
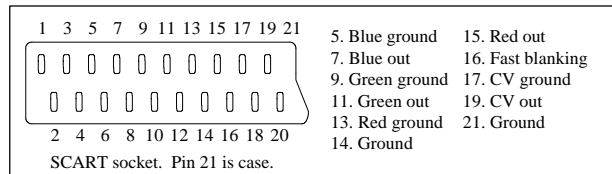
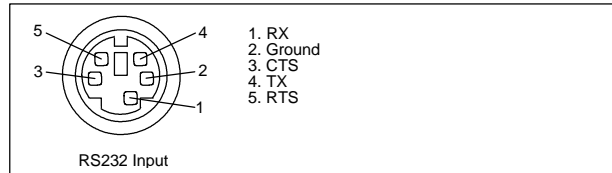
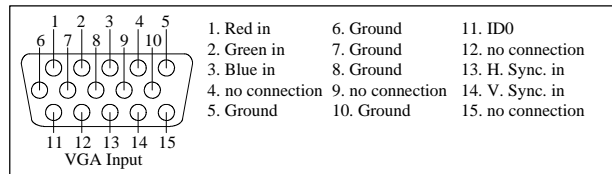
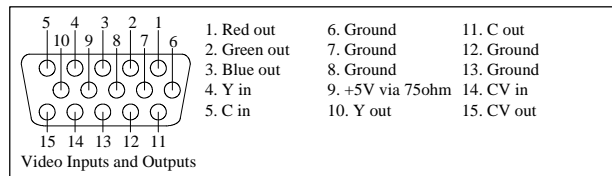
- Optional Infra-red remote control (requires Infra-Red Receiver Module) - also allows low-level access using on-screen display menu
- Control via RS232 port (cable and CORIO Control Panel for Microsoft® Windows supplied)
- Reset switch accessible from rear of unit.

Other Features

- Image freeze
- Brightness control
- Non-volatile memory saves all settings - so you can make the unit start-up in a specific mode (eg. Overlay)

Power requirements

- Requires spare 4-pin hard-disk drive connector within computer.
- Consumes approx. 350mA @ 12v. (5v signal on connector not used.)



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