



CORIO[®]scan Pro S/SG

Professional Level Scan Convertors for the PC, Apple Macintosh & Workstations



*Scan Convertors of
uncompromising excellence...*



CORIO Technology

Vine Micros' CORIO technology is the result of over 12 years' research and development into scan conversion. Incorporating sophisticated digital filtering circuitry, every CORIO product delivers exceptional image quality and stability. The range of CORIO products has been designed to meet the demands of almost every facet of today's computer to video world.



Addressing the demands of the Professional/ Post Production market, the CORIOscan Pro S and the CORIOscan Pro SG employ skillfully crafted engineering which converts a computer signal to a video signal. The CORIOscan Pro SG has the additional advantage of reference sync input, perfect for a studio environment. Combining other complex quality enhancing features, both models deliver superb image quality that altogether surpasses their price.



Compatible with PC, Apple Macintosh[®] or Workstation[®] platforms, the CORIOscan Pro S and the CORIOscan Pro SG can be connected to any equipment that has a video input. Our highly experienced engineers have developed the most intuitive methods of controlling these units. All features can be accessed at the touch of a button offering both the choice and versatility to suit almost any studio surroundings.

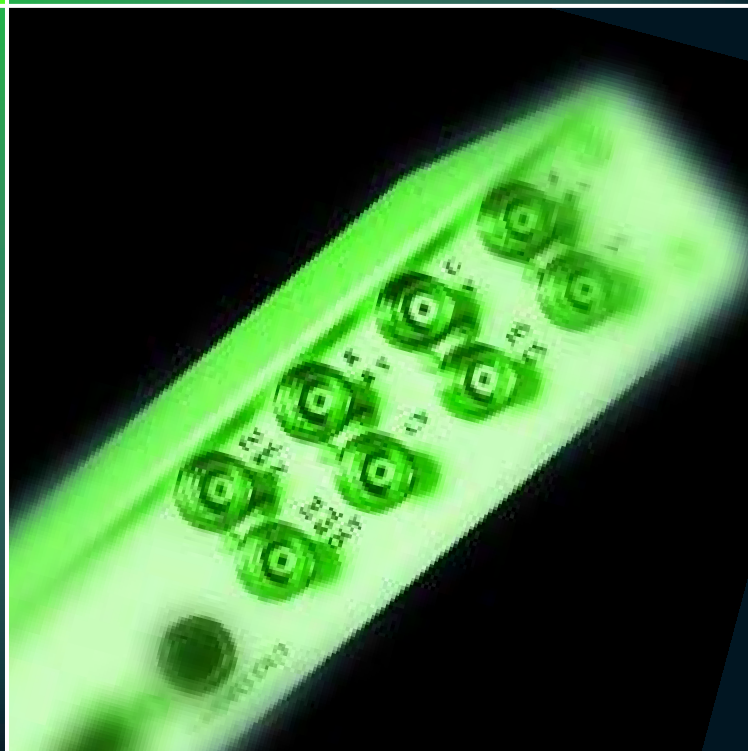


Image quality you can trust, build quality you can rely on...

The CORIOscan Pro S and CORIOscan Pro SG are powerful, sophisticated scan converters that are designed to meet high expectations and deliver our sharpest image quality to date. Enhanced by twice the amount of video memory of our previous units, they offer full 24 bit colour compatibility and 6 line flicker reduction.

Scan conversion on resolutions of up to 1600 x 1200 is accomplished with no line dropping, even with a horizontal scan rate of up to 100kHz. Whether it's video display of fine CAD wire frames or detailed web pages, the CORIOscan Pro range can handle it.

Housed in a durable metal casing, both models are equipped with professional BNC connections for secure integration. Set-up is also simplified by the AutoSet feature, unique to the CORIO range. Once activated, the unit automatically matches the computer resolution to your display settings and saves this information in its non-volatile memory. You can then size and position the video display to best suit your requirements.

In addition to this, Underscan and Overscan settings are fully user-adjustable to give you even greater display flexibility.



Choice, flexibility and control... they're all here

The CORIOscan Pro S and the CORIOscan Pro SG are both available in desktop, rackmount and double rackmount format giving you diverse installation options. International TV standards present no problem for the units as they are PAL & NTSC switchable.

Compatible with most computers including PCs, Apple Macs[†] & Workstations[†], the choice of outputting either Composite Video, S-Video, YUV, or RGB with separate sync. outputs, makes it compatible with a vast array of video equipment too.

The units can be operated by either the built-in LCD display, Remote Control, or RS232 PC control*, so all features can be effortlessly accessed. In addition, the unit's Infra-red Remote Control can act as a Microsoft[®] Serial Mouse*, thus enabling the computer to be controlled from a distance.





Complete studio integration with the CORIOscan Pro SG



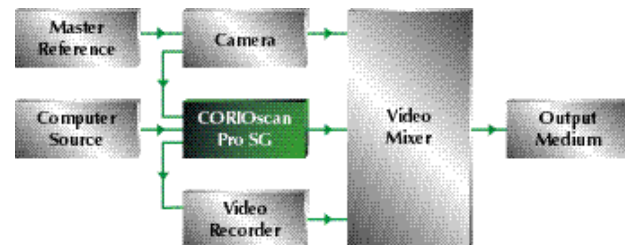
Although the same quality as the CORIOscan Pro S, the CORIOscan Pro SG has the added advantage of a Studio Genlock feature which enables the unit's signal to be genlocked onto a master reference sync. within a studio environment. Whatever your studio surroundings, the inclusion of an external reference sync. loop-through, makes 'daisy chaining' to neighbouring equipment possible.

Synchronising computer output with broadcast video equipment is effortless with the CORIOscan Pro SG.

Add to this an adjustable horizontal control and a sub-carrier phase adjustment of up to 360 degrees, and you have complete control over the unit's genlock facility.

If you wish to record the output to video tape, there is also switchable horizontal softening which improves recording quality.

To guard against the tampering of carefully adjusted settings, button lockout is also a useful feature of the range.



Packed with professional features...

Advanced features of both the CORIOscan Pro S and the CORIOscan Pro SG include:-

- PC, Apple Mac⁺ & Workstation⁺ Compatible
- Desktop & Rackmount Versions available
- Professional BNC Connection
- YUV, RGB, S-Video and Composite Output
- 24-bit Colour Compatible
- Horizontal & Sub-Carrier Phase Control
- 6 Line Flicker Reduction
- Infra-red Remote Control
- Image AutoSet
- Programmable Start-up Settings
- 1600x1200 max. Resolution
- Microsoft[®] Serial Mouse emulation via the Remote*
- RS232 PC Control*
- Menu Driven User Interface
- Digital Processing & Filtering
- PAL & NTSC Switchable
- Overscan & Underscan
- 2 x Zoom & Pan
- Image size & position
- Monitor Loop-through
- Image Freeze
- Brightness Control
- Button Lockout

The CORIOscan Pro SG has the advanced studio features of:-

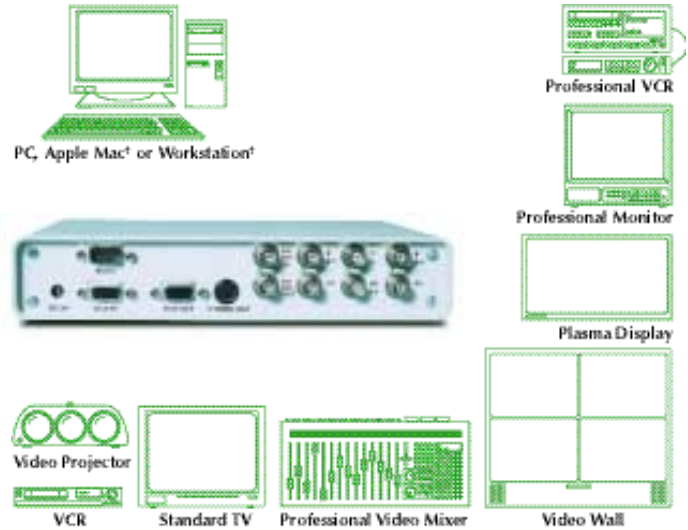
- Reference Sync. input with 360 degree phase control
- Horizontal phase control

The CORIOscan Pro S/SG are compatible with PC, Apple Macintosh⁺ or Workstation⁺ platforms and can be connected to any piece of equipment that has a video input.

Multi-platform to multi-format all from a single device...

Whether you use a PC, Apple Mac⁺ or Workstation⁺, both units give you the power to display your computer image on a vast range of professional equipment. All you need is a video input on your display device and the CORIOscan Pro S/SG unit does the rest. It really is that simple!

At last video projectors, video walls, and VCRs and TVs can all be used to display your computer's image output with superb clarity and detail.



Rear view of CORIOscan Pro SG shown in diagram



Endless applications...

As many users of existing CORIOscan products around the world have already discovered, the uses of Vine Micros' Scan Convertors are almost unlimited.

The CORIOscan Pro SG is perfect in a studio environment as too is the CORIOscan Pro S, should you not require the Studio Genlock facility.

For those with a Workstation computer or those who need particularly high quality scan conversion, the

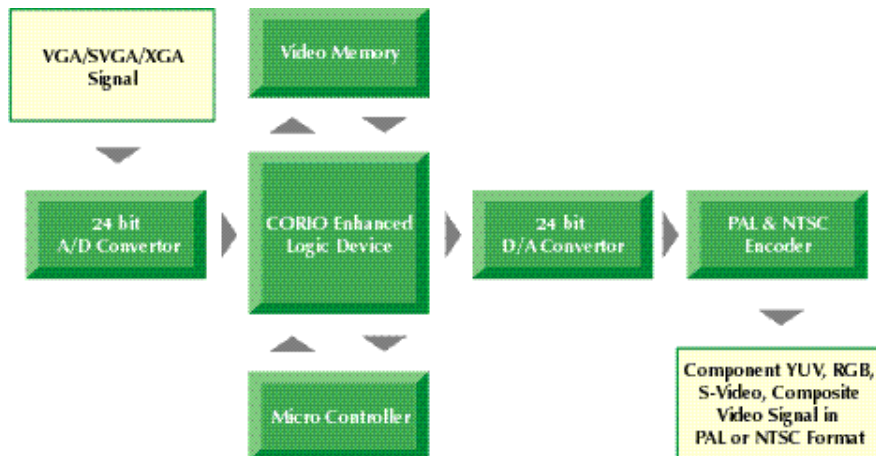
CORIOscan Pro S is ideal for: CAD/CAM Display; Internet Display; Video Production; AV Conferencing; Large screen PC display at Exhibitions, Conferences or Special Events; POS and Information Display...the list goes on.

Whatever your application requirements, the CORIOscan Pro S/SG will exceed your expectations.

True peace of mind...

As with all Vine Micros' products, a **two year** limited warranty is provided with both units.

The power behind the performance...



Output Specifications

Signals

- PAL & NTSC switchable
- Composite Video: 1 volt peak-peak on BNC
- S-Video on 4-pin mini-DIN
- RGB 0.7v p-p or Y R-Y B-Y switchable on BNCs
- TTL HSync/Comp.Sync, VSync on BNC
- SCART cable provided with European versions

Image Scaling & Positioning

- Proprietary scaling method - no line dropping
- Auto-set feature automatically scales computer image
- Underscan & Overscan settings user-adjustable
- 2x Zoom & panning

Image enhancement & filtering

- Switchable Horizontal Softening improves recordability
- Proprietary 2, 4 or 6 line flicker reduction

Internal settings memory

- Non-volatile memory to hold settings for different screen resolutions
- User definable start-up features

Control Methods

- Intelligent micro-controller eases use
- Infra-red remote control
- Control via push buttons & LCD display
- Control via RS232 port*

Sub-carrier lock & sync pulses

- Sub carrier locked to line frequency
- Adjustable SC/H phase
- Sync pulse widths conform to TV standards

Studio Genlock- CORIOscan Pro SG Only

- Subcarrier phase:- full 360 degrees
- Horizontal phase:- $\pm 0.5\mu s$

Input Specifications

Compatibility

- PC, Macintosh†, Workstations†

Resolutions

- Maximum 1600x1200 with no line dropping
- 15kHz to 100kHz horizontal scan rate
- Virtually any vertical scan rate accepted horizontal scan rate is more important

Synchronization

- Separate TTL-level Hsync & Vsync positive or negative going
- Composite sync (0.3v to 1.0v peak-peak negative, or TTL level negative)
- Sync on green

Colours

- 24 bit 4:2:2 YUV storage

Ref Sync. Termination - CORIOscan Pro SG Only

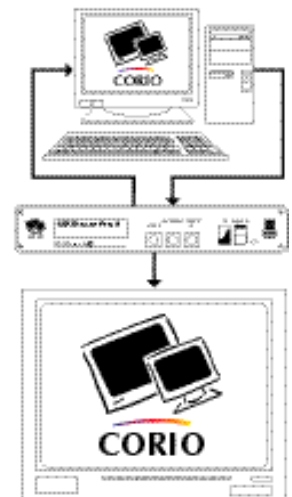
- 75 Ω terminator included in pack

Options

- 19" 1U rack-mount version.
- Double 19" 1U rack-mount version available incorporating two CORIOscan Pro S/SG units.
- 12v DC (regulated or smoothed) min. 500mA
- Optional Apple Macintosh and Workstations cable packs
- Optional serial cable for RS232 and mouse control

Set-up Configuration

The diagram below represents a basic computer to video set-up using the CORIOscan Pro S/ CORIOscan Pro SG.



Dimensions

CORIOscan Pro S/SG (Desktop Version)

- Size: 222mm x 48mm x 147mm
- Weight: 1.30 kg

CORIOscan Pro S/SG (19" 1U Single Rackmount)

- Size: 420mm x 44mm x 139mm
- Weight: 1.95 kg

CORIOscan Pro S/SG (19" 1U Double Rackmount)

- Size: 420mm x 44mm x 139mm
- Weight: 2.20 kg

* Requires serial cable

† Requires extra lead pack for computers without 15-pin VGA connectors.

Due to our policy of constant improvement, we reserve the right to alter specifications without notice. All details and specifications correct at time of publication. CORIO is a registered trademark of Vine Micros Limited. E&OE. All Copyrights and Trademarks are acknowledged.

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