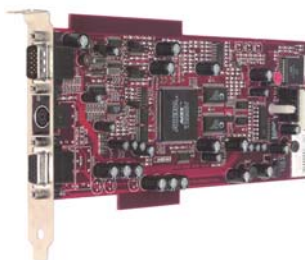


CS-450 Eclipse provides the same high quality computer-to-video scan conversion as the CS-400 Select, while adding a Genlock and Overlay feature. It converts computer graphics to standard NTSC or PAL video and its integral digital luminance keyer allows those graphics to be keyed over an external Composite or S-Video signal. All black areas of the image from the computer can be replaced with the external video. Choose between Hard (Solid) or Soft (Transparent) Keys with five levels of transparency. Also, the Mix Mode permits glitch-free dissolving between the computer image and external video. The dissolve rate is adjustable for both the Key and Mix Modes. Like all CORIO products, the CS-450 has our exclusive AutoSet feature, which automatically sizes and positions the image to fit exactly onto the video screen. The CS-450 Eclipse has a non-volatile memory that retains the unit's settings, even when power to the unit is turned off. So, the next time you use it, no setup is required.

CS-450 Eclipse handles both PC and Mac computers and can be controlled from the front panel, via an Infrared Remote Unit or by the RS-232 port. Its 2X Zoom feature allows you to enlarge a quarter of the computer screen to fill the entire video screen and the Pan feature allows you to move around to any area you choose. The advanced 4-Line Digital Flicker Elimination circuitry provides crisp, clear images up to 1024x768, without line dropping, at any vertical refresh rate. It is capable of handling even higher resolutions. Video outputs are switchable between NTSC and PAL and are simultaneously provided in Composite, S-Video and RGBS formats, as well as a computer monitor loop-thru. The OSD (On-Screen Display) provides ease of setup and status monitoring. A wide Subcarrier lock range and Subcarrier phase adjustment provides the flexibility needed to lock to incoming signals.



CS-450 Eclipse



CS-460 Eclipse Internal

is a PCI version of the product. It also fits into an ISA slot by removing the end-bracket, turning the card through 180°, then replacing the end bracket.

The internal version was designed specifically for system integration, so the card removes the need for external power supplies and greatly reduces the length of cables usually required from the PC to the unit. The PCI or ISA slots in the computer are used solely for holding the unit in place and no data or power connections are made to either of them via the bus. This prevents bus signal or timing compatibility issues, and means that the unit can even be mounted in other types of enclosures. The internal version takes power from a spare hard disk drive connector. It is supplied with video breakout cables, so you still have the same range of signals as the external version. Standard control is via RS232 (a 9-Pin D serial cable is included to connect to the PC), using either your own software or our CORIO Control Panel software. An IR Remote Control is available as an option and requires the optional Infrared Receiver Module to work.

Key Features of the CS-450 and CS-460

- **Auto Detect** - Automatically recognizes and configures for incoming resolutions up to 1600x1200.
- **AutoSet™** - Exclusive CORIO feature automatically sizes the incoming signal to exactly fit the video screen.
- **Configuration Memory** - Automatic recognition of previously used computer types and resolutions.
- **Computer Loop-thru** - Allows normal use of the local computer monitor while scan converter is operating.
- **Genlock with Overlay** – Superimpose (Key) computer graphics over incoming Composite or S-Video.
- **Full Bandwidth Color Sampling** - 24-bit sampling provides 8 bits per color for 16.8 million colors.
- **Scalable Overscan/Underscan** - User determined image size in both Overscan and Underscan modes.
- **RS-232 Interface** - Facilitates control of all scan converter functions by external devices.
- **Infrared Remote Control** - Use the full-function IR Remote to control all functions (Option on CS-460).
- **Remote Mouse Emulation** - Use the IR Remote as a Mouse to control the source PC (Option on CS-460).
- **Flicker Elimination** - Proprietary digital flicker reduction eliminates interlace flicker without resolution loss.
- **Multi-standard Outputs** - Menu selectable NTSC or PAL video output standard.
- **Simultaneous Video Outputs** - Composite, S-Video (Y/C) and RGBS are standard.
- **Universal Power Supply** - Compact worldwide AC Adapter for CS-450. CS-460 uses internal PC power.



Scan Converters with Overlay

Models CS-450 Eclipse, CS-460 Eclipse Internal

Specifications

Computer Video Input

Signal Type	RGBHV
Termination	Auto-terminating into 75Ω
Connector	1x HD-15 Female
R-G-B Level Range	0.5-2.0 Vp-p
Scan Rate Detection	Automatic
Maximum Resolution	1600x1200
Max Without Line Drops	1024x768
Max Vert Refresh Rate	
@ 640x480	210Hz
@ 800x600	170Hz
@ 1024x768	130Hz
@ 1280x1024	100Hz
@ 1600x1200	85Hz
Max Horiz Scan Rate	100KHz
Computer Compatibility	CS-450 - PC, Macintosh CS-460 - PC

Genlock/Overlay Input

Composite Video	1x via RCA Connector
S-Video	1x via 4-Pin Mini-DIN Connector
Subcarrier Lock Range	+/- 200Hz for NTSC Operation (+/- 250Hz for PAL Operation)
	+/- 12° Adjustment

Subcarrier Phase

Video Outputs

Television Standards	NTSC, PAL-B/G Selectable
Impedance	75Ω
Composite Video	1x via RCA Connector
S-Video (Y/C)	1x via 4-PIN Mini-DIN
RGBS (Note 3)	1x via HD-15 Female Connector
Computer Loop-thru	1x via HD-15 Female Connector

General

Size and Position	Automatic via AutoSet or Manual
Unerscan/Overscan	User-Definable Presets
Image Freeze	One Video Frame
Settings Memory	Non-Volatile
Zoom/Pan Range	2X Zoom & 100% Pan Coverage
Flicker Filtering	Selectable 2 or 4 Line
Horizontal Filtering	Full Digital
Conversion Technology	Proprietary – CORIO™
Color Resolution	24-bit (16.8 Million Colors)

Control Methods

Local (CS-450 Only)	via Front Panel Buttons & OSD
RS-232 Interface	via 5-Pin Mini-DIN
Infrared Remote	via IRC-4 Remote Unit (Note 2 - Optional for CS-460)

Mechanical

CS-450 Size (H-W-D)	1.25"x7.25"x4" (32x185x102mm)
Weight (Net)	10 oz (280 g)
Case Material	Molded Plastic
CS-460 Size (H-L)	3.25"x8.5" (82x215mm)
PC Slot Required	Full Length – PCI or ISA



CS-450 Connections

Warranty

Limited Warranty	2 Years Parts and Labor
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Environmental

Operating Temperature	+32° to +120° F (0° to +48° C)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	-40° to +150° F (-40° to +65° C)
Storage Humidity	10% to 85%, Non-condensing

Power Requirement

CS-450	12VDC, 350mA, Center Pin +
CS-460 (from PC)	12VDC, 350mA via HD Connector

Regulatory Approvals

Scan Converter Units	FCC, CE
Power Supplies	UL, CE, CSA

Accessories Included – CS-450

1x C-Video Cable	6' RCA to RCA
1x S-Video Cable	6' 4-Pin S-V to 4-Pin S-V
1x VGA Cable	3' HD-15 Male to Male
1x Serial Cable (Note 1)	6' 5-Pin Mini-DIN to DB-9
1x IR Remote	IRC-4
1x Operations Manual	Eclipse Series
1x AC Power Adapter	100-240VAC, 50-60Hz to 12VDC, @ 800mA, Mini-Plug Type

Accessories Included – CS-460

1x CV-SV I/O Assembly	HD-15 to 2x RCA & 2x 4-Pin Mini
1x VGA I/O Assembly	HD-15M to 1x HD-15M & HD-15F
1x Serial Cable (Note 1)	6' 5-Pin Mini-DIN to DB-9
1x Operations Manual	Eclipse Series
1x DC Power Cable	Y-Cable to bridge DC Power from PC Power Supply to Card

Product Item Numbers

CS-450	CS-450 Eclipse External
CS-460	CS-460 Eclipse Internal

Optional Accessories

CA-RS2 Serial Cable	Opt for CS-450 (Std for CS-460)
IRR-104 Remote Sensor	Required for CS-460 IR Operation
IRC-4 IR Remote Unit	Opt for CS-460 (Std for CS-450)
CA-RGB (Note 3)	10' HD-15 Male to 3BNC
CA-RGB1 (CS460 Only)	Video I/O including RGBS

Notes

- (1) CS-460 includes CA-RS2 Serial Cable to connect the card to the host PC. CA-RS2 is optional for CS-450.
- (2) CS-460 requires optional IRR-104 Remote Sensor and IRC-4 Remote Unit for IR Remote Control operation.
- (3) RGB Out is computer image only, with no video overlay.



CS-460

Pictured with Optional
IRR-104 Remote IR Sensor &
IRC-4 Remote Control Unit



Scan Converters with Overlay

Models CS-450 Eclipse, CS-460 Eclipse Internal

Examples of Eclipse Overlay (Keying) Capability



CS-460 Input/Output Cable Assemblies



Video I/O

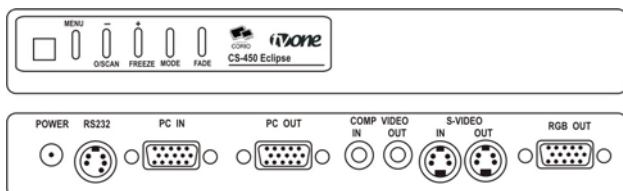


VGA I/O



Serial Cable

Panel Drawings



CS-450
Eclipse



CS-460
Eclipse Internal

IRC-4
Remote

