

Pro S Series Scan Converters are high performance, high resolution, computer-to-video converters. The range consists of the three versions, with the primary difference being the housing. The CS-500A is a compact desktop version, the CS-520A is a rackmount version and the CS-550A is a dual rackmount version. All three Pro S models work equally well with High Performance Workstations, PC and Macintosh computers. These products are based on our exclusive CORIO™ digital conversion technology and represent our fourth generation of scan converters. The Pro S models employ advanced Digital Filtering circuitry to insure maximum picture quality and an advanced Digital 6-Line Flicker Reduction system for maximum clarity.

Pro S units handle any input computer resolution up to 1600x1200 and this is achieved without horizontal line dropping, which means no loss of information during the conversion process. They accept any vertical refresh rate and horizontal scan rates up to 100KHz. In order to deal with a wide variety of Computer Workstations, all Pro S models accept computer signals with Sync-on-Green, Mixed (Composite) Sync and H&V Sync. Video outputs are switchable between NTSC and PAL and are simultaneously provided in Composite, S-Video, and RGBS (or YUV) formats, plus a computer loop-thru. Our exclusive AutoSet feature takes the hassle out of setup by automatically sizing and positioning the computer image to fit exactly on the video screen. All settings, including Underscan and Overscan, are stored in non-volatile memory and are retained even when power is switched off. A front panel Liquid Crystal Display makes setup easy. All the functions can be controlled via the front panel Push Buttons, an Infrared Control Remote Unit or via an RS-232 connection. Remote Mouse emulation is a standard function of the Infrared Control Unit when used in conjunction with RS-232



CS-620A

Pro SG Series Scan Converters have all the features of the Pro S range plus the ability to genlock to an external Composite Video signal. This Studio Genlock feature facilitates the seamless integration of computer video into broadcast or post production systems. Adjustments are provided for SCH, Subcarrier and Horizontal Sync Phasing, so that its video outputs are perfectly timed to the reference video. The Pro SG Series consists of the three versions, with the primary difference being the housing. The CS-600A is a compact desktop version, the CS-620A is a rackmount version and the CS-650A is a dual rackmount version.



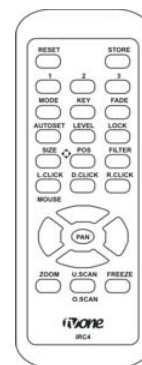
CS-650A



CS-600A

Key Features of the Pro S and SG Series

- **Auto Detect** - Automatically configures for incoming resolutions up to 1600x1200.
- **AutoSet™** - Automatically sizes the incoming signal to exactly fit the video screen.
- **Configuration Memory** - Automatic recognition of previously used computer types.
- **Studio Genlock** – Pro SG models use a Composite Video Reference, with full timing.
- **Scalable Overscan/Underscan** - User determined image size in Overscan & Underscan.
- **Front Panel LCD** - Provides ease of Menu Navigation, setup and adjustment.
- **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.
- **Remote Mouse Emulation** - Use the IR Remote Unit as a Mouse to control the source PC.
- **Image Zoom** - The 2X Zoom and Pan is superior because it is done before conversion.
- **Flicker Elimination** - Digital flicker reduction eliminates flicker without resolution loss.
- **Flexible Housings** - Choose from Desktop, Single Rackmount or Dual Rackmount cases.
- **Multi-standard Outputs** - Menu selectable NTSC or PAL video output standard.



IRC-4

Specifications

Computer Video Input

Signal Type	RGBHV, RGBS, RGsB
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 Vert Refresh Rate	
@ 640x480	210Hz
@ 800x600	170Hz
@ 1024x768	130Hz
@ 1280x1024	100Hz
@ 1600x1200	85Hz
Max Horiz Scan Rate	100KHz

Computer Compatibility Workstations, PC, Macintosh
Genlock Video Input (CS-600A, CS-620A, CS-650A Only)

Signal Type	Composite Video
Connectors	2x BNC - Input and Loop-thru
Subcarrier Phase Adjust	Full 360° Range
Horizontal Phase Adjust	+/- 500 nanoseconds

Video Outputs

Television Standards	NTSC, PAL-B/G Selectable
Impedance	75Ω
Composite Video	1x via BNC Connector
S-Video (Y/C)	1x via 4-PIN Mini-DIN Connector
RGBS or RGBHV	1x via 5x BNC Connectors
YUV (Note 1)	1x via 3x BNC Connectors
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, 4 or 6 Line
Horizontal Filtering	Full Digital
Conversion Technology	Proprietary – CORIO™
Color Resolution	24-bit (16.8 Million Colors)

Control Methods

Local Front Panel	via Push Buttons and LCD
RS-232 Interface	via DB-9 Male Connector
Infrared	IR Remote Control Unit

Mechanical

CS-500A, 600A (HWD)	1.75"x9"x6.75" (44x230x147mm)
Weight (Net)	3.0 lbs (1.4 kg)
CS-520A, 620A (H-W-D)	1.75"x19"x6.75" (44x482x147mm)
Weight (Net)	3.0 lbs (1.4 kg)
CS-550A, 650A (H-W-D)	1.75"x19"x6.75" (44x482x147mm)
Weight (Net)	4.4 lbs (2 kg)

Warranty

Limited Warranty 2 Years Parts and Labor

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-520A, 620A	100-240VAC, 50-60Hz, 10W
CS-500A, 600A	12VDC, 600mA, Center Pin +
CS-550A, 650A (x2)	12VDC, 600mA, Center Pin +

Regulatory Approvals

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

Accessories Included

1x C-Video Cable	6' BNC to BNC
1x S-Video Cable	6' 4-Pin S-V to 4-Pin S-V
1x VGA Cable	6' HD-15 Male to Male
1x AC Power Cord	6' USA Type 3-Pin
1x IR Remote Control	IRC4
1x Operations Manual	Pro S/SG Series
4x Rackmount Screws	N/A with CS-500A, 600A Desktop
1x Terminator	75Ω BNC Termination Plug
AC Power Adapter	100-240VAC to 12VDC @ 1A

(Note 3 CS-520A, 620A) Internal Power Supply used

Product Item Numbers – Pro S Series

CS-500A	Desktop Version
CS-520A	Single Rackmount Version
CS-550A	Dual Rackmount Version

Product Item Numbers – Pro SG Series

CS-600A	Desktop Version
CS-620A	Single Rackmount Version
CS-650A	Dual Rackmount Version

Optional Workstation Input Cables

CA-WS3	2x HD15M-to-3BNC for RGsB
CA-WS4	2x HD15M-to-4BNC for RGBS
CA-WS5	2x HD15M-to-5BNC for RGBHV
CA-WS13W3	2x HD15M-to-WS13W3

Optional Output Cables (Note 2)

CA-YUV3	10' 3BNC-to-3BNC for YUV
CA-RGB4	10' 4BNC-to-4BNC for RGBS
CA-RGB5	10' 5BNC-to-5BNC for RGBHV

Notes

- (1) YUV Out connectors are shared with RGBS, so when in YUV Out Mode, no CV, SV and RGBS Out are available.
- (2) Cable assemblies of alternate lengths are available.
- (3) CS-520A & CS-620A use Internal Universal Supplies.

CS-520A



CS-550A



CS-500A



Panel Drawings

