

**CS-500A 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 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. All models employ advanced Digital Filtering circuitry to insure maximum picture quality and an advanced Digital 6-Line Flicker Reduction system for maximum clarity.

**CS-500A Series** 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 models accept computer signals with Sync-on-Green, Mixed (Composite) Sync and H&V Sync. Video outputs are switchable between PAL and NTSC 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 IR Unit when used in conjunction with RS-232.

**Key Features of the CS-500A and CS-600A Series**

- Automatic incoming resolution detection
- AutoSet - Automatic picture sizing
- Automatic recognition of previously used PC types
- Studio Genlock (CS-600A, CS-620A, CS-650A)
- User Definable Overscan/Underscan
- PAL and NTSC Television Standards
- Composite, S-Video, YUV Outputs
- Front Panel LCD for setup and adjustment
- RS-232 Interface and Windows Control Panel
- Infrared Full Function Remote Control
- Remote Mouse Emulation
- Image 2X Zoom and 100% Pan Coverage
- Desktop, Single or Dual Rackmount cases



**CS-520A**



**CS-550A**



**CS-500A**



**CS-600A Series** Scan Converters have all the features of the CS-500A 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 range consists of 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-620A**



**CS-650A**



**CS-600A**

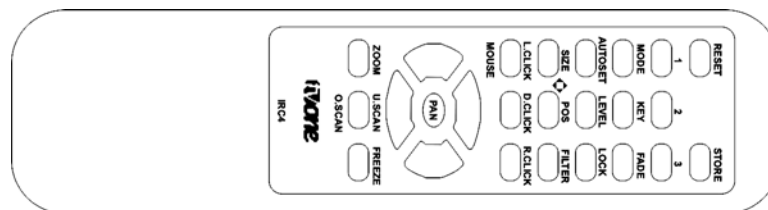
**Specifications**

<b>Computer Video Input</b>	
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	PC, Macintosh and Workstations, (Note 1)
<b>Genlock Video Input (CS-600A Series Only)</b>	
Signal Type	Composite Video
Connectors	2x BNC - Input and Loop-thru
Subcarrier Phase Adjust	Full 360° Range
Horizontal Phase Adjust	+/- 500 nanoseconds
<b>Video Outputs</b>	
Television Standards	PAL-B/G, NTSC
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 2)	1x via 3x BNC Connectors
Computer Loop-thru	1x via HD-15 Female Connector
<b>General</b>	
Size and Position	Automatic via AutoSet or Manual
Underscan/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)
<b>Control Methods</b>	
Local Front Panel	via Push Buttons and LCD
RS-232 Interface	via DB-9 Male Connector
Infrared	IR Remote Control Unit
<b>Warranty</b>	
Limited Warranty	2 Years Parts and Labor

<b>Mechanical</b>	
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)
<b>Environmental</b>	
Operating Temperature	+5° to +45° C (+41° to +113° F)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	-10° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, Non-condensing
<b>Power Requirement</b>	
CS-520A, 620A	100-240VAC, 50-60Hz, 10W
CS-500A, 600A	12VDC@600mA
CS-550A, 650A (x2)	12VDC@600mA
<b>Regulatory Approvals</b>	
Scan Converter Units	FCC, CE
Power Supplies	UL, CE, CSA
<b>Accessories Included</b>	
1x C-Video Cable	6' (2m) BNC to BNC
1x S-Video Cable	6' (2m) 4-Pin S-V to 4-Pin S-V
1x VGA Cable	6' (2m) HD-15 Male to Male
1x AC Power Cord	6' (2m) UK, Euro or US Type
1x IR Remote Control	IRC4
1x Operations Manual	CS-500A/600A Series
4x Rackmount Screws	N/A with CS-500A, 600A Desktop
1x Terminator	75Ω BNC Term (CS-600A Series)
AC Power Adapter	US, UK or Euro or Type 1x with CS-500A, 600A 2x with CS-550A, 650A
(Note 3 CS-520A, 620A)	Internal Power Supply used
<b>Product Item Numbers – CS-500A Series</b>	
CS-500A	Desktop Version
CS-520A	Single Rackmount Version
CS-550A	Dual Rackmount Version
<b>Product Item Numbers – CS-600A Series</b>	
CS-600A	Desktop Version with Genlock
CS-620A	Single Rackmount with Genlock
CS-650A	Dual Rackmount with Genlock
<b>Notes</b>	
(1) I/O Cable Assemblies for workstations are available.	
(2) YUV Out connectors are shared with RGBS, so when in YUV Out Mode, no CV, SV and RGBS Out are available.	
(3) CS-520A & CS-620A use Internal Universal Supplies.	

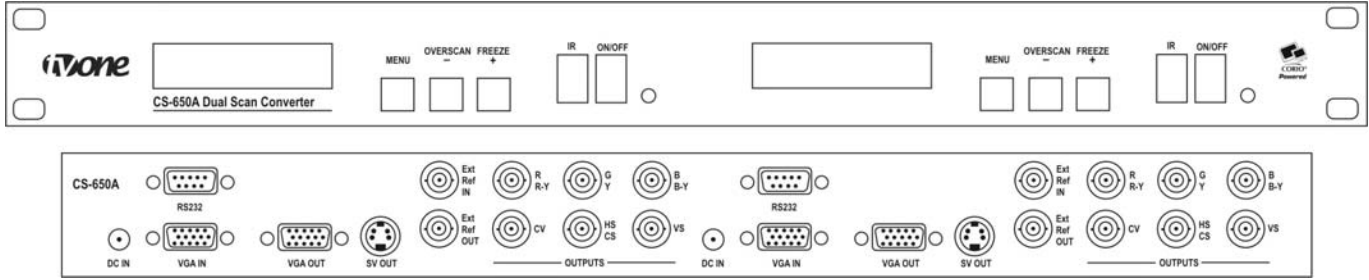
**Panel Drawing**

**IRC-4**

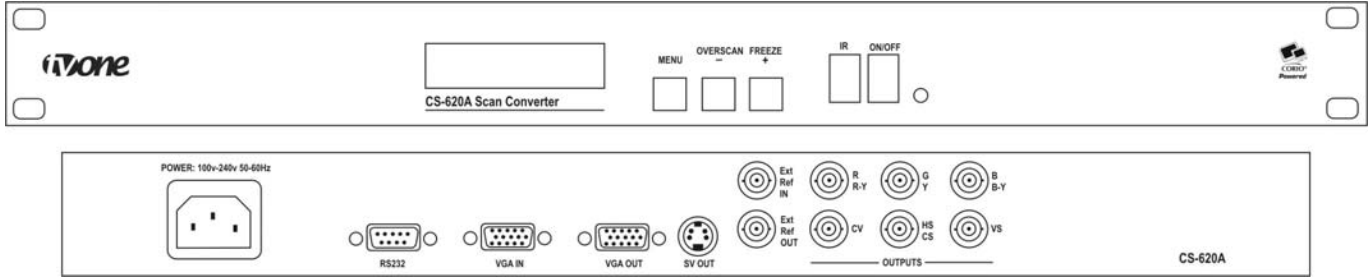


**Panel Drawings**

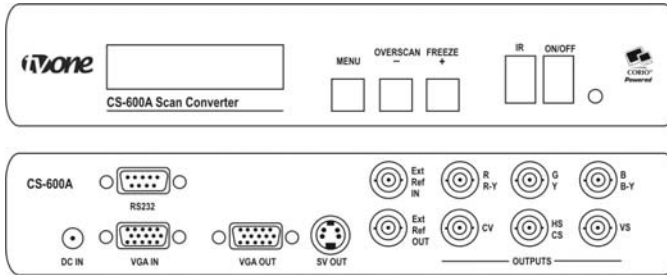
**CS-650A**



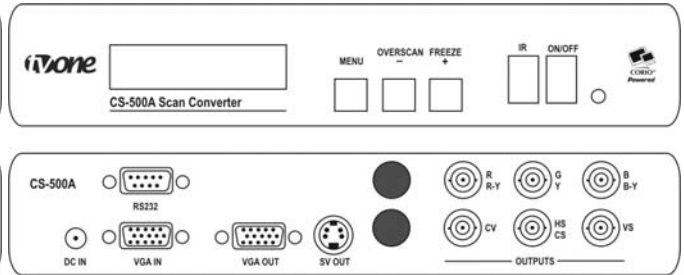
**CS-620A**



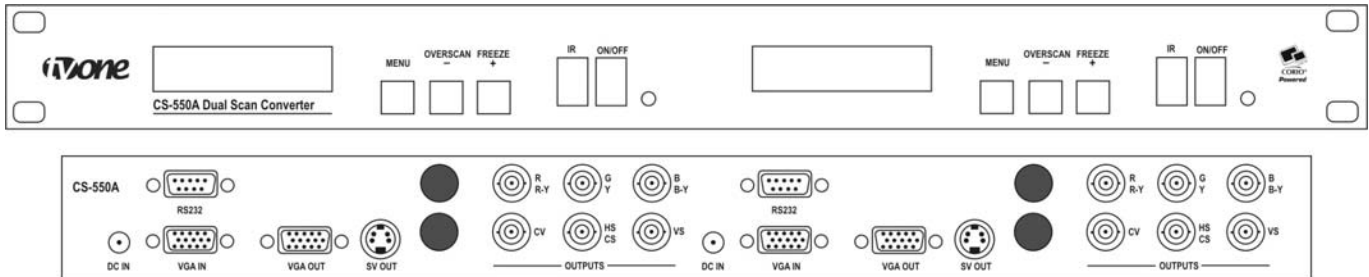
**CS-600A**



**CS-500A**



**CS-550A**



**CS-520A**

