



## Video Scalers (Up Converters)

Models CSC-1100A, CSC-1100ARS

**CSC-1100A** is a high-performance, low-cost Video Scaler to transform Composite or S-Video into standard RGBHV computer signals at VGA, SVGA or XGA resolutions. It also has a 16:9 output at 480p in RGBHV or YPbPr. It is ideally suited for use with LCD Projectors, CRT Monitors, Projection TV Systems, Plasma or HDTV Displays to improve picture quality. The output resolution is selectable between 640x480, 800x600, 852x480 and 1024x768. Adjustments are provided for Horizontal and Vertical Phase, Color, Hue, Brightness, Contrast and Sharpness. There is also an HD-15 pass-thru for a computer or HDTV signal and a front panel control to select the source.

**CSC-1100A's** Adaptive Film Mode is an automatic 3:2 pull-down detector that provides clear and crisp de-interlacing video from 24 fps film. It offers significant enhancements when viewing movies on a large screen. A Vertical Temporal Filter removes jagged edges and other de-interlacing artifacts for video motion sequences. A simple field merging technique performs de-interlacing, which is very beneficial for static images or scenes with very little or no motion. The unit automatically detects a variety of NTSC, PAL or SECAM input standards. It is available in Desktop and Rackmount versions.

**CSC-1100A/RS** has all the features of the CSC-1100A plus an RS-232 interface for ease of systems integration. The Operations Manual contains a complete set of commands to facilitate development of custom control schemes. Windows Control Panel software is provided.



**CSC-1100 Rackmount Versions**



**CSC-1100 Desktop Versions**



**CSC-1100ARS, CSC-1100ARS-R Connections**



**CSC-1100A, CSC-1100A-R Connections**

### Key Features of the CSC-1100A and CSC-1100ARS

- **Auto Detect** - Automatically recognizes and configures for incoming worldwide television standards.
- **Video Input Selection** – Toggle-thru selection of Composite and S-Video, plus a PC/HDTV Bypass.
- **Video Processing Amplifier** – Adjust Brightness, Contrast, Chroma, Hue, Sharpness and H&V Position.
- **Configuration Memory** – The video input has a non-volatile memory to retain settings.
- **Two Aspect Ratios** – In addition to the standard 4:3, there is a 480p output for 16:9 aspect ratios.
- **Two Output Formats** – 480p in YPbPr and all other resolutions in RGBHV.
- **OSD (On-Screen Display)** - Provides ease of Menu Navigation for setup and adjustment.
- **RS-232 Interface** – (CSC-1100ARS) Facilitates control of all functions and adjustments by external devices.
- **Flexible Housings** - Choose from Desktop or Rackmount configurations by exchanging the front plate.
- **Universal Power Supply** - External Power Supply operates in virtually all countries worldwide.

### Output Signal Specifications

Output	Resolution	Vert Refresh	Horiz Scan Rate	Composition	Aspect Ratio	Scan
VGA	640x480	60Hz NTSC, 50Hz PAL	31.25 KHz	RGBHV	4:3	Progressive
SVGA	800x600	60Hz NTSC, 50Hz PAL	37.88 KHz	RGBHV	4:3	Progressive
XGA	1024x768	60Hz NTSC, 50Hz PAL	48.36 KHz	RGBHV	4:3	Progressive
480p	852x480	60Hz NTSC, 50Hz PAL	31.47 KHz	YPbPr/RGBHV	16:9	Progressive
576p	852x576	PAL Only - 50Hz PAL	37.62 KHz	YPbPr/RGBHV	16:9	Progressive



## Video Scalers (Up Converters)

Models CSC-1100A, CSC-1100ARS

### Specifications

#### Scaled Output

Connector 1x via HD-15 Female Connector

#### Video Inputs

Composite Video 1x via BNC Connector  
 S-Video (Y/C) 1x via 4-PIN Mini-DIN Connector  
 PC/HDTV Loop-thru 1x via HD-15 Female Connector  
 Television Standards NTSC 3.58/4.43, PAL-B/G/I/D, PAL-M, PAL-N, SECAM

Impedance 75Ω

#### Processing Amplifier

Video Adjustments Contrast, Brightness, Chroma, Sharpness, Hue, H&V Position  
 Settings Memory Non-Volatile

#### Control Methods

Local Front Panel via Push Buttons and LED's  
 RS-232 Interface via DB-9 Male (1100ARS Only)

#### Mechanical

CSC-1100A (HWD) 1.75"x9.5"x9.5" (44x242x242mm)  
 Weight (Net) 3.5lbs (1.6kg)  
 CSC-1100A-R 1.75"x19"x9.5" (44x482x242mm)  
 Weight (Net) 3.5lbs (1.6kg)  
 CSC-1100ARS 1.75"x9.5"x9.5" (44x242x242mm)  
 Weight (Net) 3.5lbs (1.6kg)  
 CSC-1100ARS-R 1.75"x19"x9.5" (44x482x242mm)  
 Weight (Net) 3.5lbs (1.6kg)

#### 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

External Power Supply 5VDC @ 1.5A

#### Regulatory Approvals

Video Scaler Unit FCC, CE  
 Power Supplies UL, CE, CSA

#### Accessories Included

1x C-Video Input Cable 6' BNC to BNC  
 1x S-Video Input Cable 6' 4-Pin S-V to 4-Pin S-V  
 1x VGA Output Cable 6' HD-15 Male to Male (Note 1)  
 1x RGBHV Out Cable 6' 5 BNC to 5 BNC (Note 1)  
 1x AC Power Adapter 100-240VAC, 50-60Hz to 5VDC @ 2A  
 1x Operations Manual CSC-1100 Series  
 4x Rackmount Screws CSC-1100A-R, CSC-1100ARS-R  
 1x Software Disk Windows Control Panel

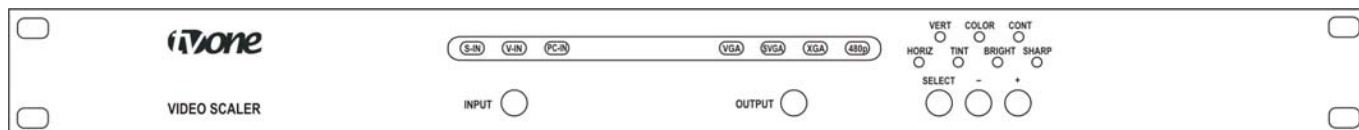
#### Product Item Numbers

CSC-1100A Desktop Version  
 CSC-1100A-R Rackmount Version (Note 2)  
 CSC-1100ARS Desktop Version with RS-232  
 CSC-1100ARS-R Rackmount Version with RS-232

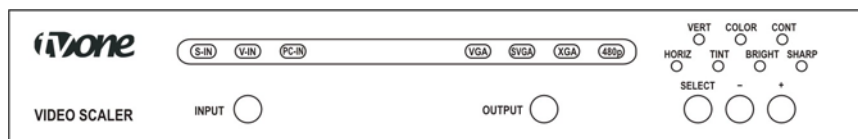
#### Notes

(1) Cable assemblies of alternate lengths are available.  
 (2) Changeable Front Panel is the only difference.

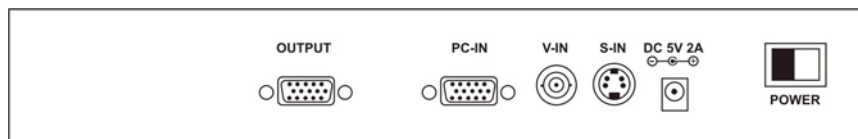
### Panel Drawings



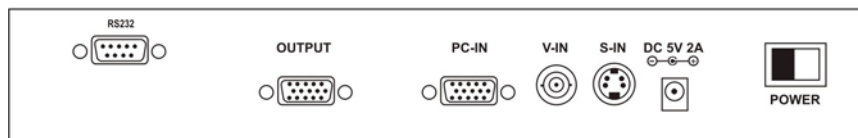
CSC-1100A-R, CSC-1100ARS-R



CSC-1100A, CSC-1100ARS



CSC-1100A, CSC-1100A-R



CSC-1100ARS, CSC-1100ARS-R