

**CS-320 Connect & CS-400 Select** are designed with high performance and ease of use in mind. AutoSet, an exclusive CORIO feature, takes the hassle out of making the computer image fit onto the TV screen. Just push a single button and the computer image is automatically sized and positioned to fit exactly onto the video screen. The settings are retained in memory, even when power is turned off, for dozens of computers and resolutions. So, next time it's used, no setup is required.

**CS-320 Connect** handles both PC and Mac computers and can be controlled from the front panel or via an Infrared Remote Unit. Its 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.

**CS-400 Select** has all the functions of the CS-320 Connect plus some additional features. An OSD (On-Screen Display) provides ease of setup and status monitoring. The RS232 Interface enables the unit's IR Remote Control to function as a Remote Mouse to control your computer from a distance. The CS-400 Select also has a Brightness Control and two Composite Video and two S-Video Outputs for greater connectivity.



**CS-320**



**CS-320 Connections**



**CS-400**



**CS-400 Connections**

### Key Features of the CS-320 and CS-400

- **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.
- **H-V Size & Position** - In addition to AutoSet, flexibility is provided by a wide range size and positioning
- **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.
- **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** - (CS-400 Only) 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** - (CS-400 Only) 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 the conversion process.
- **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 AC Adapters are built right into the power plug and work worldwide.



# Scan Converters (Down Converters)

Models CS-320 Connect, CS-400 Select

## 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	PC, Macintosh

### Video Outputs

Television Standards	NTSC, PAL-B/G Selectable
Impedance	75Ω
Composite Video	1x via RCA Connector – CS-320 2x via RCA Connector – CS-400
S-Video (Y/C)	1x via 4-PIN Mini-DIN – CS-320 2x via 4-PIN Mini-DIN – CS-400
RGBS	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 Control (Note 1)	via Front Panel Push Buttons
RS-232 Interface	via 5-Pin Mini-DIN (CS-400 Only)
Infrared	IR Remote Control Unit

### Mechanical

Case Material	Molded Plastic
CS-320 Size (H-W-D)	1.25x7.25x4" (32x185x102mm)
Weight (Net)	10 oz (280 g)
CS-400 Size (H-W-D)	1.25x7.25x4" (32x185x102mm)
Weight (Net)	10 oz (280 g)

### 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-320	12VDC, 350mA, Center Pin +
CS-400	12VDC, 350mA, Center Pin +

### Regulatory Approvals

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

### Accessories Included

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	6' 5-Pin Mini-DIN to PS2 (CS-400)
1x IR Remote Control	IRC4
1x Operations Manual	CS-320/CS-400
AC Power Adapter	100-240VAC, 50-60Hz to 12VDC, @ 800mA, Mini-Plug Type

### Product Item Numbers

CS-320	CS-320 Connect
CS-400	CS-400 Select

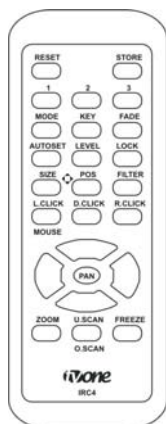
### Optional I/O Cable Assemblies

CA-RGB	10' HD-15 Male to 3BNC
CA-MAC (Note 2 )	2x HD-15 to DB-15

### Notes

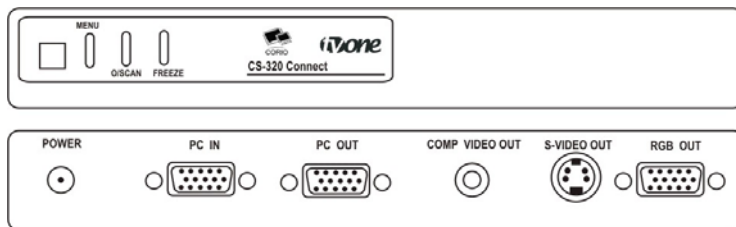
- (1) CS-400 has OSD (On-Screen Display) for settings.
- (2) Required only for older Mac models not equipped with HD-15 VGA Output connector.

## Panel Drawings



IRC-4 Remote

CS-320 Connect



CS-400 Select

