

Video to PC/HD and DVI Scaler Box ID# 141



Operation Manual

Introduction

The unit is a high performance video scaler that accept Composite Video, S-Video, YCbCr component and RGB interlaced input and scales up to high resolution PC or HDTV output.

Features

- Output is digital RGB bit-stream via DVI connector.
- Selectable output refresh rate up to 85Hz.
- Input clock and phase adjustment ensures noise-free output picture.
- Video inputs are 3D de-interlaced and scaled up to PC or HDTV output resolution.
- Automatically accommodates worldwide input video systems of NTSC3.58, NTSC4.43, PAL, PAL M, PAL N and SECAM.
- High performance adaptive digital 4H Comb filter Y/C separator with adjustable vertical peaking.
- Motion compensated de-interlacing algorithms to produce artifact-free progressive scan video signal.
- Built in adaptive film mode 3:2 / 2:2 pull-down provides clear and crisp deinterlacing of video originating from 24 fps film, such as DVD movies.
- Vertical temporal filter (VT) removes jaggy and other de-interlacing artifacts from normal video.
- OSD menu with adjustable control on Color, Sharpness, Brightness, Contrast and Tint (NTSC).
- Last memory for all adjustments.

Operating Functions and Controls Front Panel



1. **DVI Out-** This is the DVI Output port. Connect the port to your device using the DVI digital cable.
2. **The Menu button-** This brings up the menu and it is used as a enter/select button for menu options.
3. **The – button-** This is used to scroll through options or to adjust selected options.
4. **The + button-** This is used to scroll through options or to adjust selected options.

It also doubles as the input button, which is used to cycle through inputs such as

Composite, S-Video, YCbCr and RGBs.

Rear Panel



1. **YCbCr RGB IN-** this is a component input for component out devices. For this port the connectors included are:
 - 8 PIN Din Connector to 3 x RCA which are colour coded for red, blue, green inputs. You may also insert into these pins your RGBs (RGB sync on green device).
2. **SV IN-** this is the S-Video IN, which is for 5 Pin S-Video cable. This connector is not included in kit.
3. **CV IN-** this is composite video for use with AV/RCA devices. For this port the connector included:
 - A single RCA cord.
4. **Power- DC 5V -** to be used with the power pack supplied, this power pack will accept all country voltages, please however make sure you use the right adapter plug to suit your wall socket.
 1. Please note this device only alters the video signal, the audio signal, goes directly from your output device to your input device.
 2. Video quality may alter depending on a number of factors:

- Quality of input source (the better you put in the better your going to get out).
- Input connector used, e.g. Component and S-Video produce better quality video signal as opposed to composite video.
- Quality of cables used- Gold plated cables will produce a better quality picture then standard cables.

Menu Options

Picture Adjustment

- Brightness
- Contrast
- Colour
- Tint
- H. peaking filter: Broad/Medium/Low.
- Sharpness
- V. peaking gains
- Reset
- Exit

Display Setup

- Timing
- CSC : RGBHV, YPbPr
- Exit

Advanced

- Film mode- auto/off
- OSD Display- On/Off
- No signal- Blue/Black
- Exit

System Information

- Input Mode
- Display timing
- Exit

Trouble Shooting

Please note that changing some settings via the menu may cause the picture to deteriorate or disappear altogether. Please don't panic, this is not a fault of the converter it is merely outputting a signal your output device cannot accept.

To fix this problem:-

- For a PC monitor/VGA device press and hold the + and – simultaneously, keys 3 and 4 on the front of the panel for 5 seconds and release. This will reset the device to XGA mode that should be able to be received by all VGA devices.
- For a HDTV device press and hold the menu and – buttons simultaneously, keys 2 and 3 on the front of the panel. This will reset the device to a resolution of 480p, which can be received by all HDTV devices.

- If this does not work please power off the unit, wait 1 minute, turn the unit back on and repeat the procedure. If you are still having problems please contact sales@converters.tv.

Installation

The DC adaptor power unit should not be plugged into a wall outlet until all connections are complete.

- Connect the output (Number 1 on front panel) to your output device. You should have a blank blue screen. Pressing the menu button should bring up the menu. This tells you that the device is operating correctly.
- There are a number of different inputs, choose the best input for your input device.

With your input device connected, press the input button to cycle through the inputs until you find the correct picture.

- Once all connections are complete please connect the power supply provided to the power socket (Number 4 on the rear panel).
- Once power has been turned on, the LED light to the right of the socket should light up, if this does not happen please check if it is connected correctly.

Specifications

Spec. \ Model	CM-347/CM-347ST	CM-348/CM-348ST
Input Signal Levels	Video @ 1Vp-p, 75 ohm, Y @ 1Vp-p, 75 ohm, Color @ 0.7Vp-p, 75 ohm, YCbCr, RGsB(CM-347/CM-348) or RGBs(CM-347ST/CM-348ST)	
Output Format	YPbPr / HDTV	RGBHV
Output Connector	HD 15 Female	DVI
Output Singnal	RGB @ 0.7Vp-p, H&V Sync @ 3Vp-p, Y @ 1Vp-p, Pb,Pr @ 0.7Vp-p 75 ohm	Digital
Weight	240 grams	270 grams
Dimensions	146 x 77 x 30 mm	161 x 77 x 30 mm
Power Source	5VDC @ 2A	

Input Signal Specifications

PC Resolution		Vert Rate	Format	Scan Type
VGA	640 X 480	60,72,75,85 Hz	RGBHV	Progressive
VESA85	640 X 400	85 Hz	RGBHV	progressive
VGA70	720 X 400	70 Hz	RGBHV	Progressive
SVGA	800 X600	60,72, 75, 85 Hz	RGBHV	Progressive
XGA	1024X768	60, 70, 75, 85 Hz	RGBHV	Progressive
Mac	1152X864	70, 75 Hz	RGBHV	Progressive
WXGA	1280X768	60 Hz	RGBHV	Progressive
1280A	1280X960	60 Hz	RGBHV	Progressive
SXGA	1280X1024	60, 75 Hz	RGBHV	Progressive
HDTV Resolutions		Vert Rate	Format	Scan Type
480p	720 x 480	60 Hz	YPbPr, RGBHV	Progressive
480i	720 x 480	60 Hz	YCbCr, RGBHV	Interlace
576p	720 x 576	50 Hz	YPbPr, RGBHV	Progressive
576i	720 x 576	50 Hz	YCbCr, RGBHV	Interlace
720p	1280 x 720	50,60 Hz	YPbPr, RGBHV	Progressive
1080i	1920 x 1080	50,60 Hz	YPbPr, RGBHV	Interlace

Output Signal Specifications

PC Resolution		Vert Rate	Format	Scan Type
VGA	640 X 480	60,72,75,85 Hz	RGBHV	Progressive
VESA85	640 X 400	85 Hz	RGBHV	progressive
VGA70	720 X 400	70 Hz	RGBHV	Progressive
SVGA	800 X600	60,72, 75, 85 Hz	RGBHV	Progressive
XGA	1024X768	60, 70, 75, 85 Hz	RGBHV	Progressive
Mac	1152X864	70, 75 Hz	RGBHV	Progressive
WXGA	1280X768	60 Hz	RGBHV	Progressive
1280A	1280X960	60 Hz	RGBHV	Progressive
SXGA	1280X1024	60, 75 Hz	RGBHV	Progressive
HDTV Resolutions		Vert Rate	Format	Scan Type
480p	720 x 480	60 Hz	YPbPr, RGBHV	Progressive
576p	720 x 576	60 Hz	YPbPr, RGBHV	Progressive
720p	1280 x 720	50,60 Hz	YPbPr, RGBHV	Progressive
1080i/540p	1920x1080	50,60 Hz	YPbPr, RGBHV	Pseudo Interlance