



# Instruction Manual

**1T-V1280HD**  
**Video-PC/HD Converter**



## Table Of Contents

<b>1.0</b>	<b>Introduction</b>	<b>4</b>
<b>2.0</b>	<b>Specifications</b>	<b>5</b>
<b>3.0</b>	<b>Checking Package Contents</b>	<b>6</b>
<b>4.0</b>	<b>Connecting The Hardware</b>	<b>6</b>
<b>5.0</b>	<b>Operating The Unit</b>	<b>8</b>
<b>6.0</b>	<b>Troubleshooting</b>	<b>10</b>
<b>7.0</b>	<b>Limited Warranty</b>	<b>10</b>
<b>8.0</b>	<b>Regulatory Compliance</b>	<b>11</b>
<b>9.0</b>	<b>Contact Information</b>	<b>12</b>

## **1.0 INTRODUCTION**

Thanks for purchasing this 1T-V1280HD Video-PC/HD Converter from TV One. The 1T-V1280HD is designed to convert Composite or Component Video to a wide variety of PC and HDTV resolutions. Our professional video conversion products have been serving the industry for over twenty years. TV One offers a full line of high quality Video Scalers, Scan Converters, Analog-Digital (DV, SDI, DVI) Converters, Standards Converters, Digital Video Recorders, Frame Synchronizers, Time Base Correctors, LCD Monitors, Matrix Routing Switchers and Distribution Amplifiers.

### **1.1 Liability Statement**

Every effort has been made to ensure that this product is free of errors. TV One cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user of the hardware to check that it is suitable for his/her requirements and that it is installed correctly. All rights reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

TV One reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

All third party trademarks and copyrights are recognised. The TV One logo, TV One-task and CORIO are the registered Trademarks of TV One. All other trademarks are the property of their respective holders.

### **1.2 FEATURES**

The 1T-V1280HD Video-PC Converter has many features that enable it to perform in a superior manner. Among those features you will find:

- Ultra Compact, High Performance Units
- Converts Composite Video, S-Video or YCbCr Inputs to PC/HD Outputs
- PC Resolutions to 1280x1024
- HDTV Progressive Scan Resolutions
- 32Mb Frame Memory
- Integral Picture Adjustments
- On Screen Display for Setup and Adjustment
- Rugged Metal Case
- Locking DC Power Connector for Security

## 2.0 SPECIFICATIONS

### General Specifications

<b>Input Format</b>	Composite Video, S-Video, RGBS, YPbPr
<b>Input Signal Levels</b>	Composite Video @ 1V p-p, 75Ω S-Video @Y 1V p-p, C 0.7 V p-p, 75Ω Pb, Cb, Pr, Cr @ 0.7V p-p, 75Ω
<b>Output Format</b>	RGBHV, YPbPr (1T-V1280HD)
<b>Output Signal Levels</b>	RGB @ 0.7V p-p, 75Ω. H&V Sync @ 3-5V p-p, TTL Y @ 1V p-p, 75Ω. Pb, Pr @ 0.7V p-p, 75Ω
<b>Input Connector Type</b>	CV RCA, S-Video 4 Pin DIN, SCART via 8 PIN DIN.
<b>Output Connector Type</b>	HD15
<b>Control</b>	Front Panel Buttons
<b>Information Display</b>	On Screen Display
<b>Video Adjustments</b>	Brightness, Contrast, Color, Tint, Sharpness, H&V Peaking
<b>Weight</b>	1.5 lbs (680 grams)
<b>Dimensions – HxWxD</b>	1" x 7" x 4" (25x175x100mm)
<b>Power Source</b>	100-240VAC to 5VDC@2.0A In-Plug Switching Adapter

### Output Signal Specifications

PC Resolutions		Vert Rate	Format	Scan Type
<b>VGA</b>	640x480	50,60,72,75,85 Hz	RGBHV	Progressive
<b>SVGA</b>	800x600	50,60,72,75,85 Hz	RGBHV	Progressive
<b>XGA</b>	1024x768	50,60,70,75,85 Hz	RGBHV	Progressive
<b>WXGA</b>	1280x768	50,60 Hz	RGBHV	Progressive
<b>SXGA</b>	1280x1024	50,60 Hz	RGBHV	Progressive
HDTV Resolutions		Vert Rate	Format	Scan Type
<b>480p</b>	720x480	50,60Hz	YPbPr, RGBHV	Progressive
<b>576p</b>	720x576	50,60Hz	YPbPr, RGBHV	Progressive
<b>720p</b>	1280x720	50,60Hz	YPbPr, RGBHV	Progressive
<b>1080i</b> (Note 1)	1920x1080	50,60Hz	YPbPr, RGBHV	Pseudo Interlaced

Note 1 - The 1080i Output is actually a doubled 540p signal. It will appear as 1080 on most displays, however, it is not a true 1080i signal format.

### 3.0 CHECKING PACKAGE CONTENTS

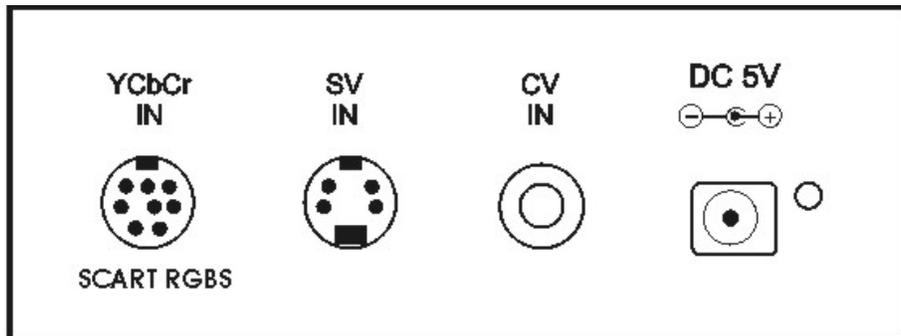
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1T-V1280HD Converter
- 100~240VAC AC/DC Power Adapter
- Composite Video Input Cable
- 8 Pin Mini-DIN to SCART Adapter
- 6 Ft HD-15M Cable
- User Manual

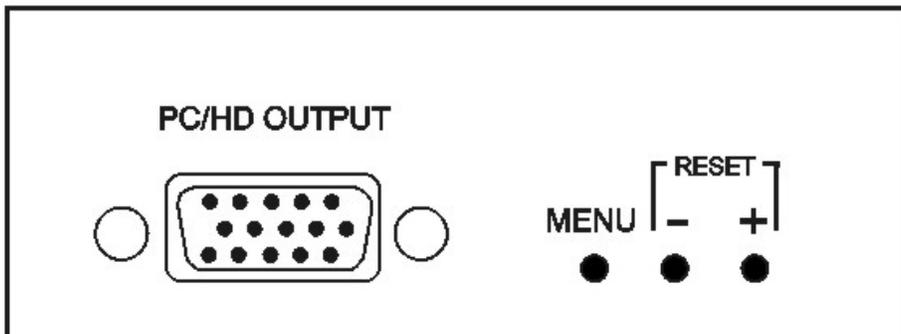
**Note:** Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

### 4.0 CONNECTING THE HARDWARE

Please study the panel drawings below and become familiar with the signal inputs, output, power requirements/inputs plus any controls present.



Input and Power Connections



Output Connector and Menu Controls

#### **4.1 Connecting the Input**

The 1T-V1280HD Video-PC Converter can accept Composite Video, S-Video or YCbCr inputs. Composite Video is connected to the unit via the RCA connector, S-Video connects via the 4-Pin Mini-DIN Connector and YPbPr connects via the 8-Pin Mini-DIN Connector using the SCART to 8-Pin Mini-DIN Cable provided.

Proper signal levels are very important to the operation of this product so make sure your inputs are of the levels specified on page 5. If improper operation of the unit occurs and the unit has power, the most likely cause of the problem is high or low signal levels or the use of a wrong input cable.

#### **4.2 Connecting the Output**

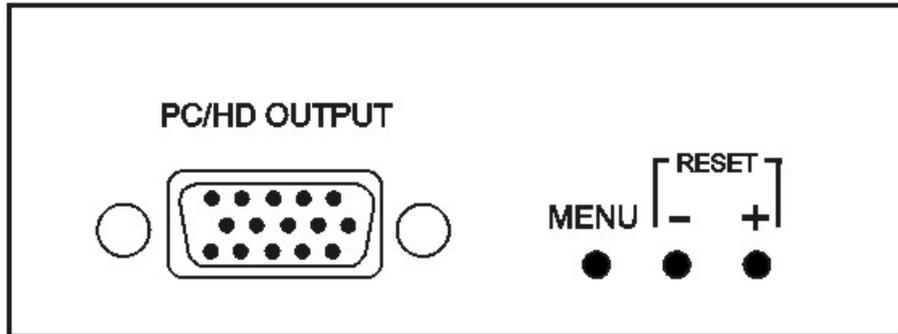
The 1T-V1280HD Video-PC Converter can output analog RGBHV or YPbPr formats. When a PC (RGBHV) output is desired, use an HD-15 to HD-15 Cable to connect the output to the destination device. Should a HDTV (YPbPr) output be desired, use an HD-15 to SCART cable to connect the device's output to the destination device.

#### **4.3 Connecting Power to the Unit**

The 1T-V1280HD is shipped with an AC to DC Power Adapter to convert 100~240VAC@50-60Hz to 5VDC. Connect the DC Output Cord from the Power Adapter to the back of the unit and then plug the Power Adapter into an AC Receptacle. When the unit is receiving power, the Power LED indicator will illuminate.

## 5.0 OPERATING THE UNIT

The 1T-V1280HD is controlled via three buttons with status indicated by an On Screen Display (OSD).



**Location of Controls**

The functions of the various control buttons are as follows:

- **Menu Button:** This Button displays the Menu Options via the On Screen Display on the display device connected to the output.
- **+ and - Buttons:** These Buttons allow navigation within the Menu and adjustments of the parameters available.
- **XGA Reset:** Simultaneously depressing the – and + buttons returns settings to factory defaults and sets the output to XGA.
- **480p Reset:** Simultaneously depressing the MENU and - buttons returns settings to factory defaults and sets the output to 480p.

Pressing the Menu Button results brings up the Initial or **Main Menu**. Move the cursor to the desired setup option by using the + and – buttons. When you reach the option you desire, press the Menu Button again to call up that option.

Picture Adjust  
Display Setup  
Advanced Setup  
System Information  
Exit

Once the desired option is reached and selected, a new Menu will appear and you once again use the + & - Keys to select the parameter you wish to change or adjust.

## 5.1 Setup Example

If you select the first item on the main menu, **Picture Adjust**, a secondary menu will show the following items:

Brightness
Contrast
Color
Tint
H Peaking Filter
Sharpness
V Peaking Filter
Reset
Exit

If you wanted to change the Color level for example, you would use the + & - Keys, to navigate to that Item on the Menu and Press the Menu Key again to select that option.

When Color is selected, a sub-menu for the adjustment will appear:

Color  48

Use the + and - Buttons to increase or decrease the value of the setting. Press Menu again to leave the setting. Move the arrow to Exit and press Menu/Enter again to Exit.

## 5.2 Display Setup

When this function is selected, an Output Resolution sub-menu will appear:

PC		HDTV	
SXGA	1280x1024@50/60Hz	720p-YPbPr	1280x720@50/60Hz
WXGA	1280x768@50/60Hz	576p-YPbPr	720x576@50/60Hz
XGA	1024x768@50/60/70/75/85Hz	480p-YPbPr	720x480@50/60Hz
SVGA	800x600@60/72/75/85Hz	1080i-YPbPr	1920x1080@50/60Hz
VGA	640x480@60/72/75/85Hz	(Pseudo Interlace -	See Note 1 on Page 5)

Use the + and - Buttons to choose the desired PC or HDTV output resolution from the available selections in the sub-menu.

### **5.3 Advanced Setup**

Advance Setup allows you to turn off the Film Mode (3:2 Pull Down), Turn off the OSD (On Screen Display) and set the No Signal Display to either Blue or Black.

### **5.4 System Information**

When this item is selected, the OSD allows changes to be made to the 1T-V1280HD's Output Resolution and Vertical Refresh Rate. (Exercise caution when making adjustments in this area since you could set the output to a resolution that your monitor cannot display. You'd then have great difficulty recovering since no image would be present on the screen. It's suggested you make certain you thoroughly understand the capabilities of your display device before you make any changes in this area.)

## **6.0 TROUBLESHOOTING**

Other than checking for faulty cables, the only common problem would be choosing a wrong Output Setting. Make sure the display is capable of handling the resolution and refresh rate selected and make sure the output format selected (RGB or YPbPr) for the type of cable being used at the output. If a problem persists, please consult your Dealer or contact TV One Technical Support.

After trying the above suggestions should the problem still persist, contact your dealer for additional suggestions before contacting TV One. Should the dealer's technical personnel be unable to assist you, contact TV One via our support website: <http://tvone.crmdesk.com>. Create a technical support request on the site and our support team will respond within a short period of time.

## **7.0 LIMITED WARRANTY**

LIMITED WARRANTY – With the exceptions noted in the next paragraph, TV One warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of two years from the date of purchase. Should this product, in TV One's opinion, prove defective within this warranty period, TV One, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of TV One. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into TV One products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the

term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to TV One.

If repairs are necessary under this warranty policy, the original purchaser must obtain a Return Authorization Number from TV One and return the product to a location designated by TV One, freight prepaid. After repairs are complete, the product will be returned, freight prepaid.

**LIMITATIONS** - All products sold are "as is" and the above Limited Warranty is in lieu of all other warranties for this product, expressed or implied, and is strictly limited to two years from the date of purchase. TV One assumes no liability to distributors, resellers or end-users or any third parties for any loss of use, revenue or profit.

TV One makes no other representation of warranty as to fitness for the purpose or merchantability or otherwise in respect of any of the products sold. The liability of TV One with respect to any defective products will be limited to the repair or replacement of such products. In no event shall TV One be responsible or liable for any damage arising from the use of such defective products whether such damages be direct, indirect, consequential or otherwise, and whether such damages are incurred by the reseller, end-user or any third party.

## **8.0 REGULATORY COMPLIANCE**

The 1T-V1280HD has been tested for compliance with FCC Class B and CE. The Power Adapter has been tested for compliance with UL, CSA and CE.

## 9.0 CONTACT INFORMATION

Should you have questions or require assistance with this product in areas not covered by this manual, please contact TV One at the appropriate location shown below:

### **TV One USA**

1350 Jamike Drive  
Erlanger, KY 41018  
USA  
Tel 800-721-4044  
Fax 859-282-8225  
sales@tvone.com  
www.tvone.com

### **TV One Europe**

Continental Approach  
Westwood Industrial Estate  
Margate, Kent CT9 4JG, UK  
Tel +44 (0)1843 873311  
Fax +44 (0)1843 873312  
sales.europe@tvone.com  
www.tvone.co.uk

### **TV One Latin America**

2790 NW 79 Ave  
Miami, FL 33122  
USA  
Tel 305-418-9305  
Fax 305-418-3096  
sales.latinamerica@tvone.com  
www.tvonela.com

### **TV One Mercosur**

Honduras 5849, 2<sup>nd</sup> Floor, Office C  
(C1414BNI) Capital Federal  
Buenos Aires, Argentina  
Tel +54 11 4771-5570  
Fax +54 11 4771-5570  
sales.mercosur@tvone.com  
www.tvonela.com

### **TV One Asia**

10F, NO.34, Sec. 2  
San-Min Rd, Panchiao City  
Taipei Hsien 220  
Taiwan R.O.C.  
Tel +886 2 8951-0674  
Fax +886 2 8951-0675  
sales.asia@tvone.com  
www.tvoneasia.com

### **TV One China**

Rm. A 17C,  
Regalia Building No.29,  
Xiangcheng Rd.  
Pudong, Shanghai  
China (200122)  
Tel +86 21 5830-2960  
Fax +86 21 5081-9096  
sales.china@tvone.com  
www.tvonechina.com

## NOTES

## NOTES





## We Provide Solutions

### **TV One USA**

1350 Jamike Drive  
Erlanger, KY 41018  
USA  
Tel 800-721-4044  
Fax 859-282-8225  
sales@tvone.com  
www.tvone.com

### **TV One Europe**

Continental Approach  
Westwood Industrial Estate  
Margate, Kent CT9 4JG, UK  
Tel +44 (0)1843 873311  
Fax +44 (0)1843 873312  
sales.europe@tvone.com  
www.tvone.co.uk

### **TV One Latin America**

2790 NW 79 Ave  
Miami, FL 33122  
USA  
Tel 305-418-9305  
Fax 305-418-3096  
sales.latinoamerica@tvone.com  
www.tvonela.com

### **TV One Mercosur**

Honduras 5849, 2<sup>nd</sup> Floor, Office C  
(C1414BNI) Capital Federal  
Buenos Aires, Argentina  
Tel +54 11 4771-5570  
Fax +54 11 4771-5570  
sales.mercosur@tvone.com  
www.tvonela.com

### **TV One Asia**

10F, NO.34, Sec. 2  
San-Min Rd, Panchiao City  
Taipei Hsien 220  
Taiwan R.O.C.  
Tel +886 2 8951-0674  
Fax +886 2 8951-0675  
sales.asia@tvone.com  
www.tvoneasia.com

### **TV One China**

Rm. A 17C,  
Regalia Building No.29,  
Xiangcheng Rd.  
Pudong, Shanghai  
China (200122)  
Tel +86 21 5830-2960  
Fax +86 21 5081-9096  
sales.china@tvone.com  
www.tvonechina.com