



# Instruction Manual

**AVT-3320**  
**Analog Video to UXGA Scaler**



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## **1.0 INTRODUCTION**

Thanks for purchasing this product from the AV Toolbox Division of TV One. The AVT-3320 Analog Video to UXGA Scaler is designed to convert interlaced NTSC or PAL Video—S-Video or Composite Video format—to XGA, SXGA or UXGA resolutions which allows the viewing of standard television images on your PC monitor. This is but one of our complete range of video and audio products.

### **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.

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### **1.2 Features**

- Automatically detects either NTSC or PAL Television Inputs.
- Either Composite or S-Video (Y/C) Inputs
- High Res PC Video outputs: XGA, SXGA, UXGA
- 3 Years Parts and Labor Warranty
- Light Weight – Less than 1.2 pound
- Ergonomically Friendly Design
- Small, palm size footprint

### 1.3 Getting the Best Results

There are many factors affecting the quality of results when scaling video signals. Some basic precautions will ensure the best possible performance from your Up Converter.

- **Output display device\_**– The quality of the output signal will depend largely upon the type and quality of display device used. For instance, some video projectors just look better than others.
- **Distance between the Up Converter and the display device** – This plays a major role in the final result. Long distances are possible, but special measures should be taken in order to avoid cable losses. These include using high quality cables. Line amplifiers may also be necessary.
- **Input/Output connection cables** – Low quality cables are susceptible to interference. They degrade signal quality due to poor matching and cause elevated noise levels. Therefore, cables should be of the best quality. Coax-type computer cables are recommended because of their superior internal shielding characteristics.
- **Interference from nearby electrical devices** – These can have an adverse effect on signal quality. For example, an older computer monitor often emits very high electromagnetic fields that can interfere with the performance of video equipment in its proximity.

## 2.0 SPECIFICATIONS

<b>Supported Inputs</b>	
Input Connectors	1x RCA, 1x S-Video Connector
Input Signal Types	Composite Video or S-Video
<b>Supported Output</b>	
Output Connector	HD-15 VGA
<b>Signal Characteristics</b>	
Input Types	PAL or NTSC Analog Video
Input Formats	480i or 576i
Output Format	Analog PC Video
Output Signal Type	XGA, SXGA, UXGA
<b>Human Interface</b>	
Device Control	Via Top Mounted Buttons
<b>Environmental</b>	
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing
<b>Warranty</b>	
Limited Warranty	1 Year Parts and Labor
<b>Regulatory Approvals</b>	
Main Unit	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS
<b>Mechanical</b>	
Dimensions—HxWxD	0.9"x3.9"x2.5" (24x100x64mm)
Weight	0.44lbs (200g)
<b>Power Requirement</b>	
External Power Supply	100~240VAC to 5VDC Adapter
<b>Accessories Included</b>	
1x Power Adapter	US, UK or Euro
1x User Manual	
<b>Model Number</b>	
AVT-3320	AVT-3320 Analog Video to UXGA Scaler

### 3.0 CHECKING PACKAGE CONTENTS

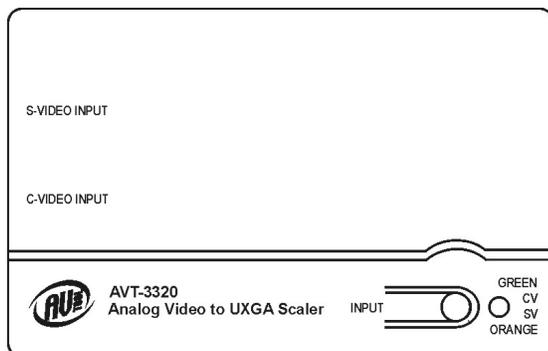
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x AVT-3320 Video to PC Up Converter
- 1x 100~240VAC to 5VDC Power Adapter
- 1x User Manual

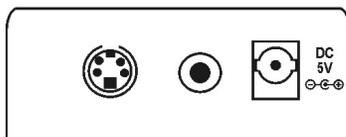
**Note:** Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

### 4.0 CONNECTING THE HARDWARE

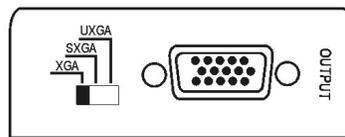
The first step is to connect a Video Source to the input of the AVT-3320 Analog Video to UXGA Scaler, connect its output to a PC monitor and lastly connect the AC to DC Power Adapter. The drawings below show the locations of the input, outputs, power switch and power connector.



The Input Select Switch and Input Indicator LED are located on the top of the unit.



The input side of the AVT-3320 is where the Composite Video, S-Video and the 5VDC Power Adapter connectors are located.



The output side of the AVT-3320 is where the HD-15 PC Video connector and the Output Resolution Switch are located.

## **4.1 Connecting the Monitor to the AVT-3320**

To make certain your monitor is working properly, check that a PC can produce a picture on it before attempting to use it with the AVT-3320 then connect the monitor to the output of the AVT-3320 using a high quality cable.

*Note: If you do not know the maximum resolution that your monitor is capable of accepting, set the AVT-3320 to XGA resolution using the three position switch located on the output side of the unit initially.*

## **4.2 Connecting the Input to the AVT-3320**

You can connect either a NTSC or a PAL input signal to the AVT-3320. The unit will automatically determine which type signal it is receiving. For the signal cable type, you'll want to use S-Video if possible because it will produce the best picture in most cases. With either input always use a high quality cable, as short a length as possible, for best results.

## **4.3 Connecting Power to the AVT-3320**

The AVT-3320 is shipped with a Power Adapter to convert 100~240VAC@50-60Hz to 5VDC. Connect the DC Output Cable from the Power Adapter to the back of the unit and then plug the Power Adapter into an AC Receptacle. The AVT-3320 has no power switch. As soon as the Power Adaptor is connected, the unit is receiving power.

## **5.0 OPERATING THE AVT-3320**

Once the AVT-3320 is connected to a monitor and an appropriate input signal is connected, you can apply power. If you have connected a Composite Video signal to the AVT-3320, press the input switch on the top of the unit until the LED indicator turns Green. If you have connected an S-Video (Y/C) signal, press the input switch until the LED indicator turns Orange. The unit will automatically determine if the input signal is NTSC or PAL format. As previously noted, unless you know for certain that your monitor will accept one of the available higher resolutions, you should start with the lowest resolution by moving the Output Resolution switch on the side of the unit to the XGA position. Once you have an XGA image on the monitor, you can then experiment with the higher resolutions to improve the image quality.

## **6.0 TROUBLESHOOTING**

Other than checking for faulty cables, the only common problem would be choosing a resolution setting that your monitor does not support. Make certain you have a good NTSC/PAL input signal and the Power Adapter is securely plugged in both to the AC receptacle and to the AVT-3320.

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, AV Toolbox warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of one year from the date of purchase. Should this product, in AV Toolbox's opinion, prove defective within this warranty period, AV Toolbox, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of AV Toolbox. 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 AV Toolbox 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 AV Toolbox. If repairs are necessary under this warranty policy, the original purchaser must obtain a Return Authorization Number from AV Toolbox and return the product to a location designated by AV Toolbox, 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 one year from the date of purchase. AV Toolbox assumes no liability to distributors, resellers or end-users or any third parties for any loss of use, revenue or profit.

AV Toolbox 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 AV Toolbox with respect to any defective products will be limited to the repair or replacement of such products. In no event shall AV Toolbox 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 AVT-3320 has been tested for compliance with appropriate FCC and CE rules and regulations. The Power Adaptor/Supplies have been tested for compliance with appropriate UL, CUL, CE, PSE, GS Rules, Regulations and/or Guidelines. These Products and Power Adapters are RoHS Compliant.

## 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.

### **AV Toolbox USA**

2791 Circleport Drive  
Erlanger, KY 41018  
USA  
Tel 800-235-3280  
Tel 859-647-1077  
Fax 859-282-8225  
sales@avtoolbox.com  
www.avtoolbox.com

### **AV Toolbox Europe**

Continental Approach  
Westwood Industrial Estate  
Margate, Kent CT9 4JG, UK  
Tel +44 (0)1843 873307  
Fax +44 (0)1843 873312  
sales.europe@avtoolbox.com  
www.avtoolbox.com

### **AV Toolbox Latin America**

6991 NW 82nd Avenue #8  
Miami, FL 33166  
USA  
Tel 305-396-6275  
Fax 305-418-9306  
sales.latinamerica@tvone.com  
www.tvonela.com

### **AV Toolbox Mercosur**

Av. Diaz Velez 3965 #PB  
(1200) Capital Federal  
Buenos Aires, Argentina  
Tel +54 11 5917-2525  
Fax +54 11 4032-0281  
sales.mercosur@tvone.com  
www.tvonela.com

### **AV Toolbox Asia**

16F-4, No.75, Sec.1  
Hsin Tai Wu Rd., Hsichih  
Taipei Hsien 22101  
Taiwan R.O.C.  
Tel +886 2 2698-2296  
Fax +886 2 2698-2297  
sales.asia@tvone.com  
www.tvoneasia.com

### **AV Toolbox China**

Room 1007, Golden Peach Building  
No. 1900 Shangcheng Road  
Pudong, Shanghai  
China 200120  
Tel +86 21 5830-2960  
Fax +86 21 5851-7949  
sales.china@tvone.com  
www.tvoneasia.com

End of Manual