



# Instruction Manual

**AVT-8710**  
***Time Base Corrector***



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## **1.0 INTRODUCTION**

Thanks for purchasing this AVT-8710 Time Base Corrector from AV Toolbox. The AVT-8710 is designed to eliminate picture jitter and time base errors from Video Tape playback through use of dual field, full frame reconstruction. Our Video conversion products have been serving the industry for many years. AV Toolbox offers a full line of high quality Standards Converters, Up-Converters, Scan Converters, Distribution Amplifiers, Routing Switchers, Time Base Correctors, PIP Display Devices, Quad Splitters and Video Conditioners. RF Modulators, Digital Audio Converters, LCD Monitors/Receivers and Multimedia Cables round out the product offerings.

### **1.1 Liability Statement**

Every effort has been made to ensure that this product is free of errors. AV Toolbox 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.

AV Toolbox 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 AV Toolbox Logo, 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 AVT-8710 Time Base Corrector has many features that enable it to perform in a superior manner. Among those features you will find:

- Composite Video and S-Video Inputs
- Composite and S-Video Outputs
- Multi Video Standards
- Comprehensive Video Adjustment Controls
- Built in Color Bar Generator
- Automatic Gain Control
- Small Size – Light Weight

## **2.0 IMPORTANT SAFETY INSTRUCTIONS**

To insure the best from this product, please read this manual carefully. Keep it in a safe place for future reference.

To reduce the risk of electric shock, do not remove the cover from the unit. No user serviceable parts inside. Refer servicing to qualified personnel.

### **2.1 POWER AND CONNECTIONS**

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet. The off state for this unit is called standby mode. In standby mode the unit is designed to consume a reduced quantity of power compared to normal operating modes.

When not using the unit for a long period of time, insure that the AC power cord is disconnected from the wall outlet.

The AC wall outlet should be installed near to the unit and be easily accessible.

Do not plug in or attempt to operate an obviously damaged unit.

### **2.2 WATER AND MOISTURE**

To reduce the risk of fire, do not expose the unit to rain, water or excessive moisture.

### **2.3 GENERAL CARE**

Do not force switches or external connections. When moving the unit, disconnect the serial port connections first then the power cable and finally the interconnecting cables to other devices. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Use a clean dry cloth.

### **2.4 LOCATION**

Installation of this unit should be in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold.

### **2.5 VENTILATION**

Slots and openings in the sides of the unit are provided for ventilation. To insure reliable operation, avoid obstruction of these openings and insure the unit is installed in a well-ventilated area.

### 3.0 INTELLECTUAL PROPERTY

Some IC chips in this product include confidential and/or trade secret property. Therefore you may not copy, modify, adapt, translate, distribute, reverse engineer, reverse assemble, or decompile the contents thereof.

### 4.0 SPECIFICATIONS

<b>Video Inputs</b>	
Composite Video	1x via RCA Connector
S-Video (Y/C)	1x via 4-PIN Mini-DIN Connector
<b>Video Outputs</b>	
Composite Video	1x via RCA Connector
S-Video (Y/C)	1x via 4-PIN Mini-DIN Connector
<b>Video Standards Supported</b>	
NTSC	NTSC 3.58, NTSC 4.43
PAL	PAL B,D,G,I,K plus PAL-M and PAL-N
SECAM	
<b>Video Signal Controls/Test Signals</b>	
Manually Adjustable	Brightness, Contrast, Color, Tint (NTSC) & Sharpness
Test Signals	Color Bar Signal Output (When no input present)
<b>Physical</b>	
Size	1.3" H x 3.5" W x 5.7" D (33x90x145mm)
Weight	7 Ounces (0.2kb)
Power	
AC Adapter	115 VAC to 15VDC

### 5.0 CHECKING PACKAGE CONTENTS

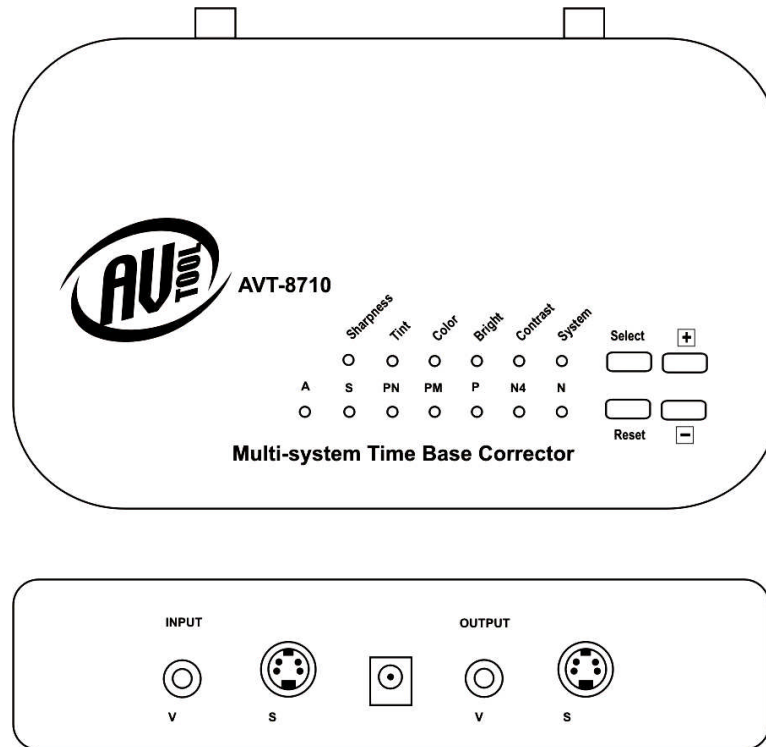
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- AVT-8710 Time Base Corrector
- 115 VAC to +12 VDC Power Adapter
- Operation 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 AV Toolbox immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

## 6.0 CONNECTING THE HARDWARE

Please study the panel drawings below and become familiar with the signal input, outputs, power requirements plus any controls present.



Connect the AC to +12 VDC adapter to an AC source and then to the DC power input shown in the middle of the lower drawing above. *(Note that there is no power switch. The unit will begin to work as soon as you have the AC to +12 VDC adapter plugged in and furnishing power).*

Next connect an input cable and an output cable to either the Composite Video or S-Video connectors. If the unit has power applied, it should begin to function as a time base corrector/frame synchronizer.

## 7.0 OPERATING THE UNIT

The AVT-8710 is operated via selection buttons referenced to indicator LEDs.

Please refer to the drawing above for the discussion that follows.

### 7.1 Initial Power Up

When power is applied to the unit, it will default to the auto detect mode and select the proper Television Standard. The LED labeled “A” will be illuminated and the lighting of the LED beneath a particular letter on the bottom row of LEDs will indicate the standard selected. The meaning of the letters on the bottom row of LEDs is as follows:

A	Auto-Detect TV Standard
S	SECAM Standard
PN	PAL-N
PM	PAL-M
P	PAL
N4	NTSC 4.43 Mhz
N	NTSC 3.58 Mhz
S	Select System Mode

As an example of how the auto-detect works, if you live in the United States or Japan, the input will be the NTSC 3.58 Standard and the unit will light the “A” LED and the “N” LED. If you live in the United Kingdom, the standard will be PAL so the “A” LED will light as well as the “P” LED. Finally, in France, the “A” and “S” (for SECAM) LEDs will light.

### 7.2 System Button Function

If you press the Select button until the System LED is illuminated on the top row, you can gain access to the bottom row of functions. You can then either automatically or manually select the Television Standard you wish to use. When the System LED is lighted, pressing the Reset button toggles between automatic and manual selection of the desired standard. (*Note: Although you can manually select the standard, it is generally best to allow the unit to make the standard selection*). To force a manual selection of the desired standard, make certain the System LED is lighted, press the Reset button and then press the + and – buttons to step through the various standards. Pressing the Reset button a second time reverts back to automatic selection of the standard.



### **7.3 Adjustment of Signal Parameters**

The other user operation is the selection of a particular picture parameter you wish to change. For instance: If you wish to adjust the amount of color in the picture, press the Select button until the LED below the word “Color” is illuminated. Next press the + and – buttons to either increase or decrease the amount of color in the picture. Use the same procedure for Sharpness, Tint, Bright and Contrast: Press the Select button until you have reached the picture variable you wish to change and then press the + and – keys to make the actual adjustment.

### **7.4 Additional Reset Button Functions**

Pressing the Reset Button while you have one of the adjustment parameters selected will cause the AVT-8710 to revert to the default setting for that parameter. If you press and hold the Reset button for more than 3 seconds, ALL controls will be reset to their default settings.

## **8.0 TROUBLESHOOTING**

Most problems with the AVT-8710 are related to misuse of the buttons and signal adjustment controls. If you find that the picture is not acceptable, place the unit in the automatic detection mode and then press and hold the Reset button for 3 seconds to restore factory defaults. This should clear the problem. Another problem revolves around the cables. Inspect the cables for loose connectors or cable damage such as crushed cables or cables with cuts or nicks. Replace any cable exhibiting these problems.

You also must use the highest quality cables if you want to achieve the best results. Poor quality cables will cause poor quality signals.

After trying the above suggestions should the problem still persist, contact your dealer for additional suggestions before contacting AV Toolbox. Should the dealer’s technical personnel be unable to assist you, contact AV Toolbox via our parent company’s 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.

## **9.0 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.

## **10.0 REGULATORY COMPLIANCE**

The AVT-8710 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.

## **11.0 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.

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