



Instruction Manual

**1T-VS-626
HDMI Scaler**

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1.0 INTRODUCTION

Thanks for purchasing this 1T-VS-626 HDMI Scaler from TV One. This HDMI Scaler converts between a variety of PC and HD resolutions providing both an HDMI Input and Output. It also provides audio flexibility by accommodating audio embedded in the HDMI signal or from analog or digital sources and outputting those same formats. Variable audio delay provides correction for lip sync errors. Our professional video conversion products have been serving the industry for over twenty years. TV One offers a full line of high quality Seamless Switchers, Video Scalers, Up/Down/Cross Converters, Analog-Digital Converters (SD/HD-SDI, HDMI, DVI), Format Converters, Standards Converters, TBC/Frame Synchronizers, Matrix Routing Switchers, Signal Distribution Amplifiers and Cat.5 Transmission Systems.

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.

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1.2 Features

- HDMI 1.2 and HDCP 1.1 Compliant
- Maximum I/O Resolutions WUXGA and 1080p
- Accepts 480i or 576i SDTV input
- Automatically detect the Resolution of the connected display
- 50/60Hz frame rate conversion
- 3-D Motion Adaptive, 3-D de-interlacing and 3:2 / 2:2 pull-down
- OSD (On Screen Display)
- Adjustment of Contrast, Brightness, Hue, Sat., Sharpness & RGB levels
- Supports digital and analog audio input and output
- Up to 150ms Audio Delay

2.0 SPECIFICATIONS

Video Input/Output	
HDMI 1.2	1x via HDMI Connector
Resolutions Supported	
PC Input/Output	VGA through WUXGA
HDTV Input/Output	480p, 576p, 720p, 1080i, 1080p
SDTV Input	480i, 576i
Video Adjustments	Contrast, Brightness, Hue Sharpness, Saturation, R-G-B levels
Scaling Engine	
De-Interlace	3D Motion Adaptive
Pull-Down	3:2 + 2:2 Recovery
Image Component Processing	Full Time/Full Range
Frame Rate Conversion	50/60Hz
Scan Conversion	Converts all Standard Scan Formats
Audio Inputs/Outputs	
Analog Stereo	1x via 3.5mm Stereo Connector
Digital	1x SPDIF via Toslink Connector
Audio Adjustments	
Variable Audio Output Delay	Off/40ms/110ms/150ms
Audio Performance	
Analog Stereo Input Level	2Vrms max @ 47K Ω
Analog Stereo Output Level	1Vrms @ 47K Ω
Toslink Sampling Rate	48KHz, 2CH, LPCM
Analog Stereo Bandwidth	20Hz to 20 KHz
Compliance	
Standards	HDMI v1.2, HDCP v1.1, DVI v1.0
Mechanical	
Size (H-W-D)	25x102x145mm (1x4x5.7")
Weight (Net)	324g (11.4oz)
Warranty	
Limited Warranty	3 Years Parts and Labor
Environmental	
Operating Temperature	0° to +50°C (+32° to +122°F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	10% to 90%, Non-condensing
Power Requirement	
External Power Supply	5VDC@2A
Regulatory Approvals	
Converter Unit	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS
Accessories Included	
1x AC Power Adapter	US, UK or Euro
1x Operations Manual	

2.1 Supported Resolutions

INPUT	
HDMI PC	VGA@(60/72/75/85Hz), SVGA@(56/60/72/75/85Hz), XGA@60/70/75/85Hz, SXGA@(60/75/85Hz), UXGA@60Hz, WXGA@60Hz, WSXGA@60Hz, WUXGA@60Hz
HDMI HDTV	480p, 576p, 720p@50/60Hz, 1080i@25/30Hz, 1080p@50/60Hz
HDMI SDTV	480i, 576i
OUTPUT	
HDMI PC	VGA@(60/72/75/85Hz), SVGA@(56/60/72/75/85Hz), XGA@(60/70/75/85Hz), SXGA@(60/75/85Hz), SXGA+@60Hz, UXGA@60Hz, WXGA@60Hz, WXGA+@60Hz, WSXGA@60Hz, WUXGA@60Hz
HDMI HDTV	480p, 576p, 720p@50/60Hz, 1080i@25/30Hz, 1080p@50/60Hz

Note: The 1T-VS-626 automatically detects the resolution of the HDMI source and also has the ability to determine the resolution of the HDMI display device when in the "NATIVE" resolution mode, which is the default setting. Although you can manually select an output resolution setting via the OSD (On Screen Display) menu, it is not necessary to set an output resolution for most uses.

3.0 CHECKING PACKAGE CONTENTS

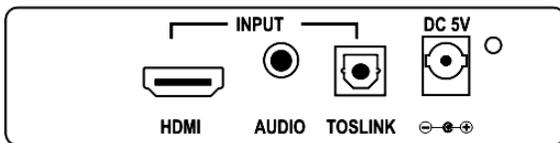
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x 1T-VS-626 HDMI Scaler
- 1x AC Power Adapter
- 1x Operations Manual

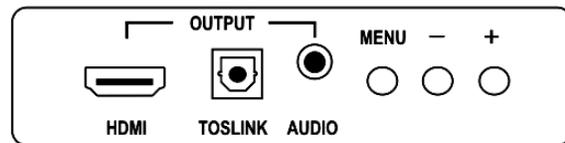
Note: Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

4.0 CONNECTING THE HARDWARE

Please study the panel drawings below and become familiar with the signal inputs, outputs, operational controls and the location of the power connector. Turn off the HDMI source and the HDMI Display and connect the appropriate HDMI and audio cables, first between the source and the 1T-VS-626 and then between the 1T-VS-626 and the display. Plug in the provided AC adapter, first to the 1T-VS-626 and then to an active AC power source. Lastly, turn on the HDMI source and display device. (The 1T-VS-626 has no power switch and will begin to function as soon as it has the AC adapter connected to it.)



1T-VS-626 Front Panel



1T-VS-626 Rear Panel

5.0 OPERATING THE UNIT

The 1T-VS-626 is controlled via an On Screen Display (OSD) menu structure. Much of the operation of the scaler is done automatically however there may be an occasion where an adjustment is needed, particularly if the input signals are not presented at standard levels. Numerous parameters can be controlled from the menu including adjustment of video parameters, selection of output resolutions, type of audio output and amount of audio delay.

The menu structure is shown below and is a two tier arrangement. When you press the Menu button for the first time, you will be on the top tier. You can then use the + and – buttons to move up and down the first tier selections until you arrive at the one associated with the parameters you wish to adjust. *(Note that some of the first tier parameters have only one associated adjustment -- e.g. BRIGHTNESS -- whereas others have several: e.g. FINETUNE.)*

When you have reached the parameter you wish to adjust, press the Menu button again to select that item. If there is only one item in the second tier associated with the parameter, you can use the + and – buttons to make an adjustment. If there are more than one item associated with the parameter, use the + and – buttons to move to the item you wish to adjust, press the Menu button again to select that item and then use the + and – buttons to make the adjustment.

Once the adjustment has been made, use the Menu button and + and – buttons to navigate to where you can exit the OSD.

1st Tier Option	2nd Tier Option	Adjustment
CONTRAST	-	0 ~ 100 of Contrast Level
BRIGHTNESS	-	0 ~ 100 of Brightness Level
FINETUNE	- HUE	0 ~ 100 of Hue Level
	- SATURATION	0 ~ 100 of Saturation Level
	- SHARPNESS	0 ~ 100 of Sharpness Level
	- EXIT	Back to 1st Tier
COLOR	- RED	0 ~ 100 of Red Color Level
	- GREEN	0 ~ 100 of Green Color Level
	- BLUE	0 ~ 100 of Blue Color Level
	- EXIT	Back to 1st Tier
SIZE	-	FULL / OVERSCAN / UNDERSCAN
OUTPUT	-	NATIVE / VGA / SVGA / XGA / SXGA / SXGA+ WXGA+ / WSXGA / UXGA / WUXGA 480i / 480p / 720p@60Hz / 1080i@60Hz / 1080p@60Hz 576i / 576p / 720p@50Hz / 1080i@50Hz / 1080p@50Hz
AUDIO	- SOURCE	HDMI / EAR PHONE / OPTICAL
	- DELAY	OFF/40ms/110ms/150ms
OSD	- HPOSITION	0 ~ 100 of OSD Horizontal Position
	- VPOSITION	0 ~ 100 of OSD Vertical Position
	- TIMER	0 ~ 100 of OSD Existing Time (sec.)
	- TRANSP	0 ~ 100 of OSD Transparent Level
	- EXIT	Back to 1st Tier
INFORMATION	-	SOURCE (Input Interface) INPUT (Input Resolution) OUTPUT (Output Resolution) VERSION (Firmware Version)
EXIT	-	Close OSD Menu

Reset Function: To reset the unit, press and hold the MENU button then plug the DC power into the unit. This will reset the unit to factory default.

6.0 TROUBLESHOOTING

Faulty cables are the most common problem associated with the 1T-VS-626. Make certain you are using the highest quality cables available. In the event of trouble with the unit, inspect the cables for damage and make sure they are completely seated in their connectors. Also make certain that the AC adapter is plugged in to a working AC socket and that the LED, located next to the DC connector, is lighted.

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

TV One warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a fixed term from the date of purchase. The warranty term for specific product lines is defined below.

1. TV One branded products based on TV One's CORIO technology are warranted for a period of five years from the date of purchase. This includes products with the model number prefix of C2, 1T-C2, CX, A2 or S2.
2. TV One-task branded products, other than those based on TV One's CORIO technology mentioned above, are warranted for a period of three years from the date of purchase. This includes products with the model number prefix of 1T, with the exception of 1T-C2.
3. LCD Monitors are warranted for a period of three years from the date of purchase, with the exception of the LCD panels integrated into the monitors that are supplied by third parties. LCD panels are limited to the term and conditions of the warranty offered by the respective LCD panel manufacturer. Such specific LCD panel warranties are available upon request to TV One.

Should a 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.

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-VS-626 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.

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