



# Instruction Manual

**1T-FC-326  
HDMI to Component Video  
Format Converter**



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## **1.0 INTRODUCTION**

Thanks for purchasing the 1T-FC-326 Format Converter from TV One. The 1T-FC-326 is designed to convert the selected of two HDMI input signals to Component Video (YPbPr or YUV) with either SPDIF Coaxial Digital Audio or standard Analog Stereo Audio (R&L Channels). 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.

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-FC-326 Format Converter has many features that enable it to perform in a superior manner. Among those features you will find:

- Compliant with HDMI 1.2a, HDCP 1.1 and DVI 1.0 specifications
- Supports a wide range of resolutions: 480i/480p/576i/576p/720p/1080i/1080p@50/60Hz.
- Supports Coaxial Digital or Analog Stereo Audio
- IR remote control Included
- HDCP compliant

## 2.0 SPECIFICATIONS

<b>Video Inputs</b>	
HDMI	2x HDMI Input Connectors
<b>Video Outputs</b>	
Component Video	1x via 3x RCA Connectors
<b>Video Performance</b>	
HDMI/HDCP/DVI	Version 1.2a, HDCP 1.1, DVI 1.0
Output Level	Y 1Vp-p, Pb/Pr 0.7 Vp-p
Video Bandwidth	160MHz +
Video Impedance	75Ω
<b>Audio Outputs</b>	
Analog Stereo Audio (R/L)	1x via 2x RCA Connectors
Digital Audio (S/PDIF)	1x Coaxial via RCA Connector
<b>Audio Performance</b>	
Audio Level (Analog)	(L/R) 2Vrms max @ 47KΩ
Audio Level (Digital)	0.5~1Vp-p@75Ω
Audio Bandwidth (Analog)	20Hz to 20 KHz
Audio Impedance (Analog)	47KΩ
Audio Impedance (Digital)	75Ω
<b>Mechanical</b>	
Size (H-W-D)	30x200x90mm (1.18"x7.87"x3.54")
Weight (Net)	500g (1.10 lbs)
<b>Warranty</b>	
Limited Warranty	3 Years Parts and Labor
<b>Environmental</b>	
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
<b>Power Requirement</b>	
External Power Supply	5VDC@2A - Locking DC
<b>Regulatory Approvals</b>	
Switcher Units	FCC, CE, RoHS
Power Supplies	UL, CUL, CE, PSE, GS, RoHS
<b>Accessories Included</b>	
1x Power Adapter	US, UK or Euro
1x IR Remote Control	Infrared

### 3.0 CHECKING PACKAGE CONTENTS

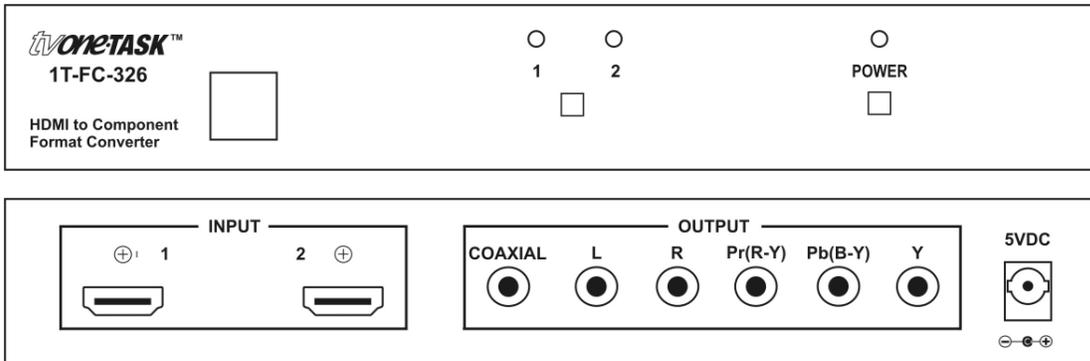
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x 1T-FC-326 Format Converter
- 2x Hex Nut/Screws
- 1x AC Adapter
- 1x 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 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 input, outputs, power requirements/inputs plus any controls present.



Connect the included AC adapter to a functional AC wall socket and then to the 1T-FC-326 Format Converter. Next, turn off any equipment intended to be connected to the 1T-FC-326 and, using high quality cables, connect the external equipment to the unit's inputs and output. Verify that the cables are fully seated in their respective connectors.

If HDMI cables are used that are equipped with Locking type connectors, an added step is necessary. Remove the Philips head screws from the rear of the unit just above the HDMI connectors and replace them with the Hex Nut/Screws that came in the 1T-FC-326 accessory pack. After screwing these into the threaded holes vacated by the Philips head screws, the Hex Nut provides a threaded receptacle for the screw that is part of the locking HDMI connector on the cable. Plug in the cable's Locking HDMI connector and secure it to the unit with its integral screw. This secures the cable to the unit and prevents its inadvertent removal.

## 5.0 OPERATING THE UNIT

Turn on the 1T-FC-326 Format Converter, the HDMI source device(s) and then the analog component equipment connected to the Format Converter's output.

Select the desired input using either the front panel input select button on the 1T-FC-326 or the included Infrared remote control.

To select the input manually, press the input button on the 1T-FC-326 and observe the LEDs located immediately above the input select button. These LEDs will show which input has been selected.

You may also make your selection using the included remote. The remote will turn the 1T-FC-326 "On" or "Off" and also select one of the two available inputs. *(Note that the remote buttons labeled 3 and 4 do not perform any function. Only the buttons labeled Power and the 1 and 2 buttons are functional.)*

### 5.1 HDCP Support

High Definition Content Protection (HDCP) is fully supported on the 1T-FC-326. Please Note –

**If the HDMI signal(s) contain HDCP content protection, the LED above the protected input will flash and there will be no signal present on the component outputs.**

This is not a fault of the unit, but normal operating condition when an HDCP material is fed into the HDMI input.

### 5.2 Bitstream and LPCM Audio Support

This unit supports both 2-Channel LPCM audio and Compressed Bitstream audio (Dolby Digital, DTS, etc) however, because the unit will not decode the Bitstream formats they can only be output via the Coaxial connection. 2-Channel LPCM audio will be output over both the Coaxial and L/R Stereo connections. LPCM sources with more than 2-Channels of audio are not supported.

## 6.0 TROUBLESHOOTING

Aside from faulty AC or DC power, most problems with the 1T-FC-326 relate to damaged/poor quality cables or incorrect signal levels.

If some inputs function correctly and others do not, interchange cables between sources and see if the problem moves with the cables. If it moves, a bad cable or cable connector is the probable reason for the trouble. If the problem remains with one particular input, connect that source to a different input using the same cable and see if the problem moves. If it does, the problem is with the source.

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-FC-326 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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End of Manual