



Instruction Manual

1T-FC-425 and 1T-FC-524 Format Converters

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1.0 INTRODUCTION

Thanks for purchasing this One Task Format Converter from TV One. The 1T-FC-524 converts analog RGBHV or Component YPbPr inputs to DVI signals, enabling their display on DVI or HDTV monitors or other devices. The 1T-FC-425 converts DVI to RGBHV or Component YPbPr, enabling viewing on analog displays or other devices. Both models are 5VDC powered and the Power Adapters are included. Locking DC Connectors are provided for security. 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 Onetask 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-425 and 1T-FC-524 have many features that enable them to perform in a superior manner. Among those features you will find:

- Analog to Digital or Digital to Analog Format Conversion
- HDTV resolutions to 1080p
- SDTV resolutions of 480i and 576i
- PC resolutions up to 1920x1200
- Plug and Play for Easy Installation
- DVI Bandwidth to 1.65Gbps (Single Link)
- Operation Frequency to 165Mhz

2.0 SPECIFICATIONS

Video Input	S					
1T-FC-524		1x RGB/YPbPr via HD-15				
		1x DVI-D via DVI-I Connector				
•	Video Outputs					
1T-FC-524		1x DVI-D via DVI-I Connector				
1T-FC-425		1x RGBHV/YPbPr via HD-15				
Component Signal I/O						
Y Component		1V p-p@75 Ÿ				
Pb/Pr Component		0.7V p-p@75 Ÿ				
_	RGBHV Signal I/O					
R-G-B		0.7V p-p@75 Ÿ 3-5V p-p@75 Ÿ				
HV Sync		3-5V p-p@75 Ÿ				
Frequency a	and Bandwidth					
Frequency		Up to 165Mhz				
DVI Bandwidth		1.65Gbps (Single Link)				
	PC I/O Resolutions					
VGA	640x480	60, 72, 75, 85Hz				
SVGA	800x600	56, 60, 72, 75, 85Hz				
	1024x768	60, 70, 75, 85Hz				
	1152x864	70, 75, 85Hz				
	1280x1024	60, 75, 85Hz				
	1600x1200	60Hz				
WUXGA	1920x1200	60Hz (Reduced Blanking, 154MHz pixel rate)				
SDTV I/O Re						
480i	720x480	60Hz (NTSC)				
576i	720x576	50Hz (PAL)				
HDTV I/O Re	esolutions					
480p	720x480	60Hz				
576p	720x576	50Hz				
720p	1280x720	•				
1080i	1920x1080 (i)					
1080p	1920x1080 (p)					
1T-FC-524 Input Format Switch						
YPbPr	Select when the	input is YPbPr				
RGB	RGB Select when the input is RGBHV					
1T-FC-524 Output Format Switch						
Analog Inpu		Output Signal				
YPbPr	Bypass or RGI	· · · · · · · · · · · · · · · · · · ·				
RGBHV	Bypass or RGI					
	1T-FC-425 Output Format Switch					
Digital Inpu		Output Signal				
YPbPr	YPbPr	Analog YPbPr				
RGB	RGB	Analog RGBHV				

SPECIFICATIONS (Continued)

Compliance
DVI Rev 1.0

Mechanical

Size (H-W-D) 30x76x105mm (1.2"x3"x4.1")

Weight (Net) 200 g (0.43 lbs)

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 Power Adapter US, UK or Euro 1x Adapter Cable HD-15 to 3 RCA

1x Operations Manual

Product Item Numbers

1T-FC-524 RGBHV/YPbPr to DVI 1T-FC-425 DVI to RGBHV/YPbPr

3.0 CHECKING PACKAGE CONTENTS

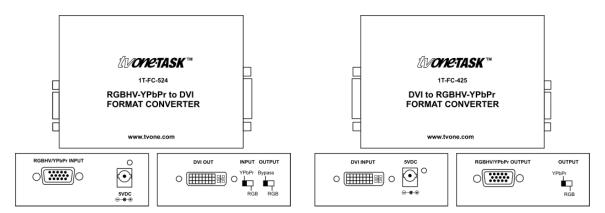
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x Format Converter
- 1x Power Adapter
- 1x Operations Manual
- 1x HD-15 to 3 RCA Adapter Cable

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 and 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, output, power requirements/input plus any controls present.



To begin, connect the AC adapter to the Format Converter's power input. Next connect the appropriate cable to the source device and then the Format Converter. Finally, connect the output cable to the Format Converter and to the destination device. Once the cables have been connected, you can apply power to the source and destination devices and then plug the Format Converter's AC adapter into the AC power source. The Format Converter will begin to function as soon as it has power.

5.0 OPERATING THE UNIT

The 1T-FC-524 has input and output format control switches. For the input, you may select either YPbPr or RGBHV analog format. For the output switch position, if your input selection was analog YPbPr, selecting Bypass will result in a Digital YPbPr or a Digital RGB output. Selecting analog RGBHV for the input and then selecting either Bypass or RGB results in a Digital RGB output. For the 1T-FC-425, there is only an Input selection to be made. Selecting a Digital YPbPr input will result on an analog YPbPr output. Selecting Digital RGB input results in an analog RGBHV output.

Making the switch selections as explained above and then connecting the cables and power will result in the device converting whatever signal is present on its input to the complementary signal on its output. As an example, if you provide a digital 1080i resolution signal to the input of the 1T-FC-425, an analog 1080i signal will appear on its output. The 1T-FC-524 would perform the same conversion in reverse, changing a 1080i resolution analog signal into a 1080i Digital signal. These units are Format Converters only and no video scaling takes place. The output resolution is the same as the input. All standard HDTV resolutions are supported on both products from 480p through 1080p, plus SDTV resolutions of 480i and 576i. PC resolutions up to 1920x1200 are supported. *Note: HDCP content will not be converted by these devices due to licensing and legal issues. This does not constitute a failure of the units.*

6.0 TROUBLESHOOTING

Other than problems with mismatched input and/or output format switches (as in mismatched for the result desired), power supply problems or faulty cabling, there is little in the way of troubleshooting required for either of the products. If switches are in the correct position and neither the cables nor power is at fault, make certain that both the source and destination devices are working properly.

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.
- 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-425 and 1T-FC-524 Converters have 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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