



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.

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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-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 Inputs		
1T-FC-524		1x RGB/YPbPr via HD-15
1T-FC-425		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	Y
Pb/Pr Component	0.7V p-p@75	Y
RGBHV Signal I/O		
R-G-B	0.7V p-p@75	Y
HV Sync	3-5V p-p@75	Y
Frequency 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
XGA	1024x768	60, 70, 75, 85Hz
Mac	1152x864	70, 75, 85Hz
SXGA	1280x1024	60, 75, 85Hz
UXGA	1600x1200	60Hz
WUXGA	1920x1200	60Hz (Reduced Blanking, 154MHz pixel rate)
SDTV I/O Resolutions		
480i	720x480	60Hz (NTSC)
576i	720x576	50Hz (PAL)
HDTV I/O Resolutions		
480p	720x480	60Hz
576p	720x576	50Hz
720p	1280x720	50, 60Hz
1080i	1920x1080 (i)	50, 60Hz
1080p	1920x1080 (p)	24, 25, 30, 50, 60Hz
1T-FC-524 Input Format Switch		
YPbPr	Select when the input is YPbPr	
RGB	Select when the input is RGBHV	
1T-FC-524 Output Format Switch		
Analog Input	Setting	Output Signal
YPbPr	Bypass or RGB	Digital YPbPr or RGB
RGBHV	Bypass or RGB	Digital RGB Only
1T-FC-425 Output Format Switch		
Digital Input	Setting	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

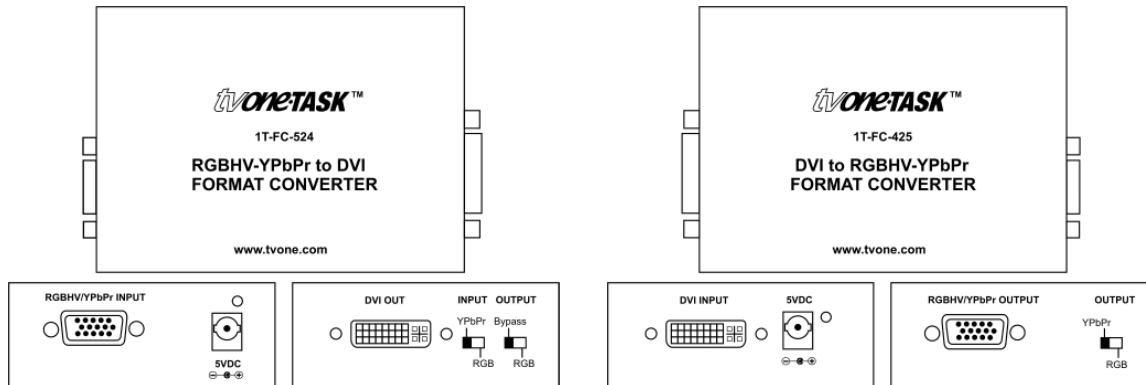
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 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.
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-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.

TV One USA

2791 Circleport Drive
Erlanger, KY 41018
USA
Tel 859-282-7303
Fax 859-282-8225
sales@tvone.com
www.tvone.com

TV One Latin America

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

TV One Asia

16F-4, NO.75, Sec. 1
Hsin Tai Wu Road, 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

TV One Europe

Continental Approach
Westwood Industrial Estate
Margate, Kent CT9 4JG, UK
Tel +44 (0)1843 873311
Fax +44 (0)1843 873312
sales.europe@tvone.com
www.tvone.eu

TV One 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

TV One China

Rm. 1007, Golden Peach Bldg.
No. 1900 Shangcheng Road
Pudong, Shanghai
China 200120
Tel +86 21 5830-2960
Fax +86 21 5851-7949
Email: sales.china@tvone.com
www.tvonechina.com

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