

Instruction Manual

***1T-YPbPr-DVI
1T-DVI-YPbPr
Format Converters***

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1.0 INTRODUCTION

Thanks for purchasing this One Task Format Converter from TV One. The 1T-YPbPr-DVI converts YPbPr component analog inputs to Digital DVI format signals enabling display on digital HDTV monitors or input to DVI switcher devices. The 1T-DVI-YPbPr converts a Digital DVI signal to YPbPr component analog format allowing the viewing or switching of a digital signal on an analog system. Our professional video conversion products have been serving the industry for over twenty years. TV One offers a full line of high quality Video Scalers, Scan Converters, Analog-Digital (DV, SDI, DVI) Converters, Standards Converters, Digital Video Recorders, Frame Synchronizers, Time Base Correctors, LCD Monitors, Matrix Routing Switchers and Distribution Amplifiers.

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-YPbPr-DVI and 1T-DVI-YPbPr have many features that enable them to perform in a superior manner. Among those features you will find:

- Improved Video Quality via DVI interface
- Format may be Digital RGB or YPbPr
- Plug and Play for easy installation
- Bandwidth to 1.65Gbps (Single Link)
- Operation Frequency to 165Mhz

2.0 SPECIFICATIONS

Video Inputs/Output	
YPbPr Analog Component	Via 3x RCA Connectors
Digital RGB	Via 1x DVI-I Connector
Component Signal I/O	
Y Component	1V p-p@75Ω
Pb/Pr Component	0.7V p-p@75Ω
Digital Signal I/O	
Digital RGB	Via DVI-I Connector
DVI Compliance	DVI Rev 1.0
Frequency and Bandwidth	
Frequency	Up to 165Mhz
Bandwidth	1.65Gbps (Single Link)
Input/Output Resolutions	
Interlaced (50&60Hz)	480i, 576i, 1080i
Progressive (50&60Hz)	480p, 576p, 720p, 1080p
Special (24 to 30Hz)	1080p@24, 1080p@25 1080p@30
Mechanical	
Size (H-W-D)	1.2"x3.0"x4.1" (30x76x105mm)
Weight (Net)	1lb (2.2kg)
Warranty	
Limited Warranty	2 Years Parts and Labor
Environmental	
Operating Temperature	0° to +48° C (+32° to +120° F)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	-10° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, Non-condensing
Power Requirement	
External Power Supply	5VDC@2A
Regulatory Approvals	
Converter Unit	FCC, CE
Power Supply	UL, CE, CSA
Accessories Included	
1x AC Power Adapter	US, UK or Euro Type
1x Operations Manual	
Product Item Numbers	1T-YPbPr-DVI, 1T-DVI-YPbPr

3.0 CHECKING PACKAGE CONTENTS

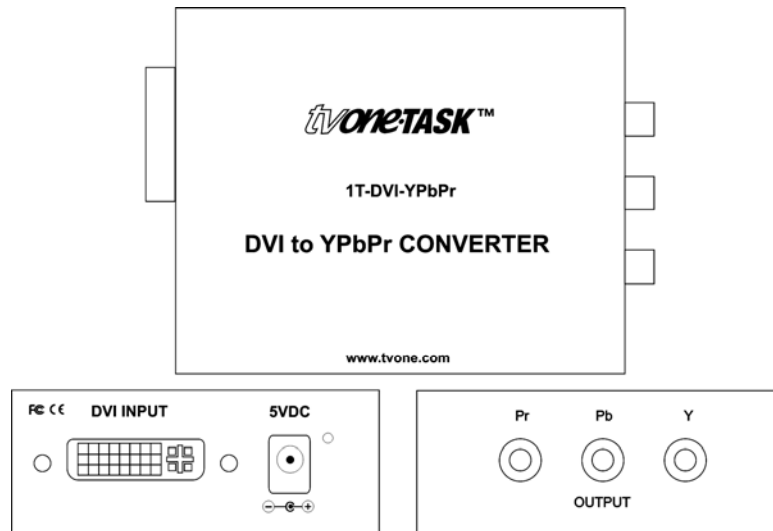
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1T-YPbPr-DVI or 1T-DVI-YPbPr
- 1x Power Adapter
- 1x Operations Manual

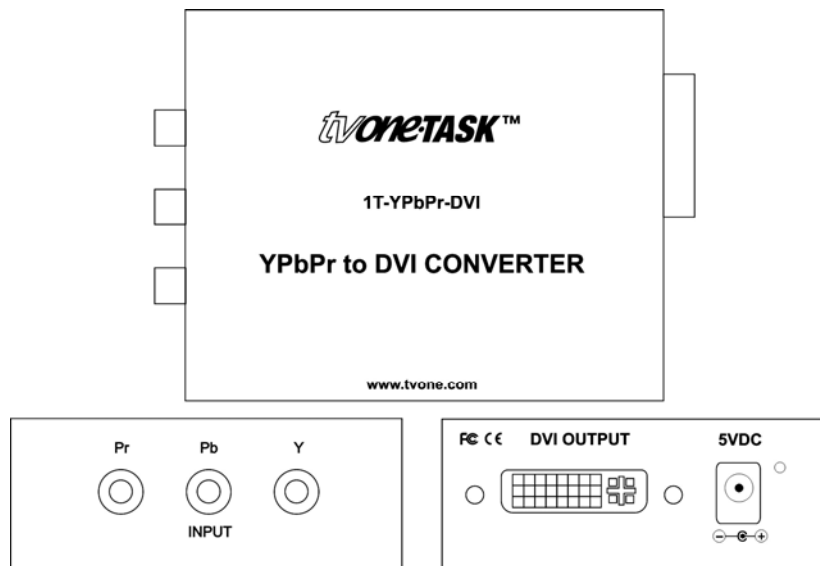
Note: Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

4.0 CONNECTING THE HARDWARE

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



1T-DVI-YPbPr



1T-YPbPr-DVI

To begin, connect the AC adapter to the Format Converter's power input. Next connect the appropriate cables to the source device and then the Format Converter. Finally, connect the output cables 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 and you should see an image on the output device.

5.0 OPERATING THE UNIT

Neither the 1T-DVI-YPbPr nor the 1T-YPbPr-DVI devices have any controls that require adjustment. Simply connect the cables and power as explained above and the device will convert 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-DVI-YPbPr, an analog 1080i signal will appear on its output. The 1T-YPbPr-DVI would perform the same conversion in reverse, changing a 1080i resolution analog signal into a 1080i Digital signal.

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 power or cabling, there is little in the way of troubleshooting required for either of the products. If neither the cabling nor the power is at fault and you still have faulty operation, 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

LIMITED WARRANTY – With the exceptions noted in the next paragraph, TV One warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of two years from the date of purchase. Should this 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.

Items integrated into TV One 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 TV One.

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-DVI-YPbPr and 1T-YPbPr-DVI Format Converters have been tested for compliance with applicable FCC and CE rules or regulations.

The Power Adaptor/Supply has been tested for compliance with UL, CSA, CE rules or regulations.

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 shown below:

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