



Instruction Manual

1T-SDI-V
SDI to Analog Converter

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1.0 INTRODUCTION

Thanks for purchasing this 1T-SDI-V SDI to Analog Converter from TV One. The 1T-SDI-V is designed to convert 270 Mb/s SDI signals into analog video (composite and Y/C). 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-SDI-V has many features that enable it to perform in a superior manner. Among those features you will find:

- 8-bit Signal Processing
- Serial Digital Video Input at 270Mbits/sec
- Reclocking and Equalizing of the input signal
- Composite and S-Video Outputs
- NTSC, PAL-M, PAL & PAL-N Operation
- Ultra Compact Metal Case

2.0 SPECIFICATIONS

SDI Video Input	
SMPTE 259M, 270Mbits/sec	1x via BNC Connector
Equalizing Range	Up to 300 meters of 8281 type cable
Analog Video Outputs	
Composite	1x via BNC Connector
S-Video (Y/C)	1x via 4-PIN Mini-DIN
Television Standards	NTSC, PAL-M, PAL, PAL-N
Impedance	75Ω
Video Specifications	
Signal Processing	8-bit
Frequency Response	Flat to more than 5MHz
Signal to Noise Ratio	
Black Field, weighted	Better than 65dB

3.0 CHECKING PACKAGE CONTENTS

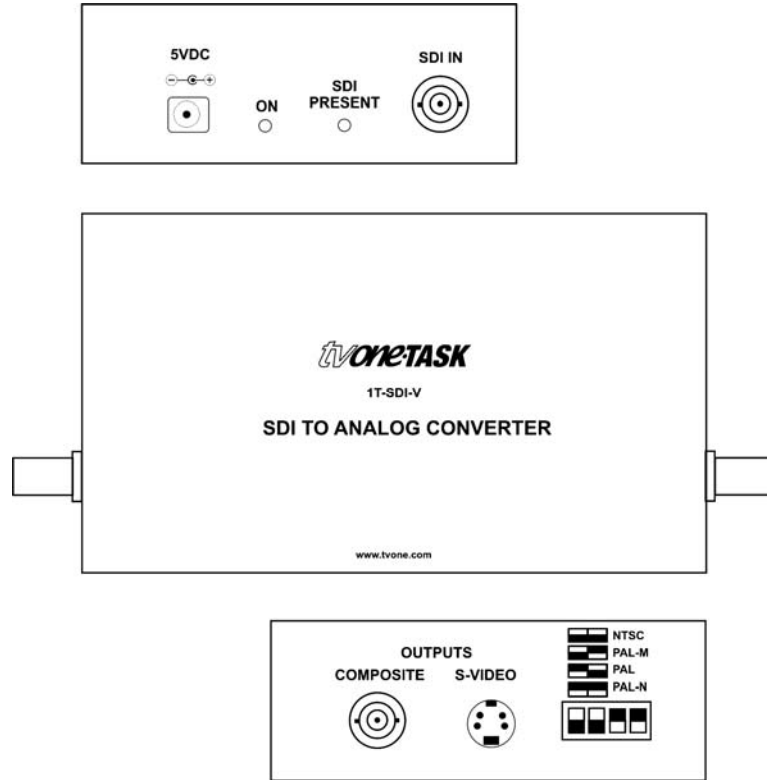
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1T-SDI-V SDI to Analog Converter.
- 100/240 VAC@50/50 Hz to +5 VDC Power Adaptor
- 6' (2m) BNC to BNC Cable
- 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 plus any controls present.



1T-SDI-V

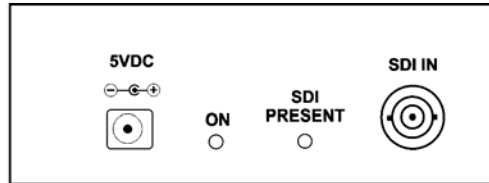
4.1 Input / Output Connections

The first step is to connect the SDI source to the “SDI IN” BNC connector and then the output(s)—Composite Video and/or S-Video—to the proper destination(s).

All 1T-SDI-V outputs are active. All outputs can be used simultaneously or just one of the outputs can be used according to the user’s needs.

4.2 Connecting Power to the Unit

The 1T-SDI-V is shipped with an AC Power Adapter to convert 100~240VAC@50-60Hz to +5 VDC. Connect the DC Output Cable from the Power Adapter to the back of the unit and then plug the Power Adapter into an AC Receptacle. When the 1T-SDI-V is plugged in, the unit will become operational and the LED labeled “ON” on the front panel will illuminate.

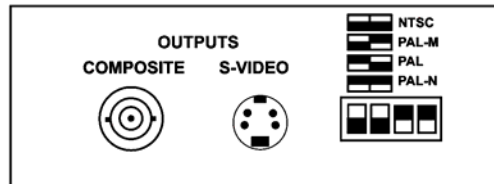


5.0 OPERATING THE UNIT

The SDI to Analog converter is controlled via two dipswitches and SDI signal status is indicated on a front panel LED.

As soon as an SDI video is connected to the SDI Input BNC, the “SDI PRESENT” LED will illuminate and the proper standard can be selected.

5.1 Standard Selection



The output standard is selected by means of two of the four dipswitches located on the rear panel of the unit.

Selected the proper standard by using the two, left most dipswitches. The respective positions are:

NTSC	Up	Up
PAL M	Up	Down
PAL	Down	Up
PAL N	Down	Down

(The other two, right most dipswitches are spares and may be used for future upgrades).

6.0 TROUBLESHOOTING

Other than checking for faulty cables, the other common problem would be operating with a wrong standard. Make sure SDI input is 270 Mb/s SMPTE 259M standard and the output standard selected is compatible with the input (525/60 or 625/50).

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

This product has been tested for compliance with: FCC Class B and CE.

The Power Adapter has been tested for compliance with: UL, CSA and CE.

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 shown below:

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