

Instruction Manual

**1T-DVI-512 & 1T-DVI-514
1 X 2 And 1 X 4 DVI
Distribution Amplifier**

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1.0 INTRODUCTION

Thanks for purchasing this 1T-DVI-512 or 1T-DVI-514 HDCP compliant DVI Distribution Amplifier from TV One. The 1T-DVI-512 and 1T-DVI-514 DVI DAs are designed to allow the distribution of a single DVI HDCP compliant input to multiple DVI HDCP compliant devices. 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.

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1.2 FEATURES

The 1T-DVI-512 1X2 and 1T-DVI-514 1X4 DVI DAs have many features that enable them to perform in a superior manner. Among those features you will find:

- Supports HDCP.
- Supports resolutions to UXGA and 480i, 480p, 720p, 1080i HDTV.
- One DVI HDCP signal can be distributed to either two or four DVI HDCP compliant devices (depending on Model).
- The Distribution Amplifiers can be cascaded.

2.0 SPECIFICATIONS

Performance	
HDTV Resolutions Supported	480i, 480p, 720p, 1080i
Maximum Display Resolution Supported	165MHz (UXGA)
Maximum Resolution	1600 X 1200@60Hz
Maximum Cable Distance (Outputs)	32 feet (10M) Using Premium Cable
I/O Connectors	
DVI Destination Port Connectors	2x or 4x DVI-I 29 pin female
Input Port Connector	1x DVI-I 29 pin female
Mechanical	
Dimension (H-W-D) (1x2 version)	1.65"x6.0"x3.0" (42x153x75mm)
Weight (1x2 version)	1.0 Pounds (475g)
Dimension (H-W-D) (1x4 version)	1.65"x8.75"x3.9" (42x269x104mm)
Weight (1x4 version)	2.1 pounds (975g)
Warranty	
Limited Warranty	2 Years Parts and Labor
Environmental	
Operating Temperature	0° to 40° C (+32° to +104° F)
Operating Humidity	10% to 85% Non-condensing
Storage Temperature	-20° to +60° C (+20° to +140° F)
Storage Humidity	10% to 85% Non-condensing
Power Requirements	
External Power Supply	9VDC@1.3A
Regulatory Approvals	
Switcher Unit	FCC, CE
Power Supplies	UL, CE, CSA
Accessories Included	
1x AC Power Adapter	US, UK or Euro Type
1x Operations Manual	

3.0 CHECKING PACKAGE CONTENTS

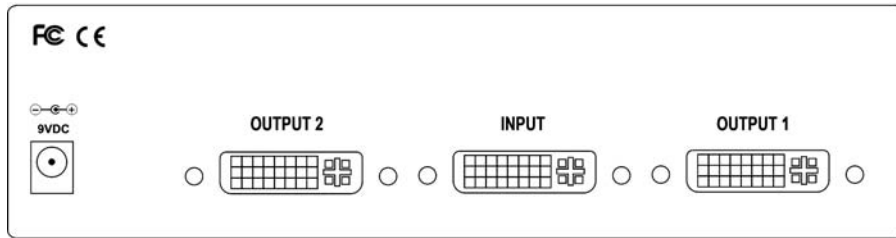
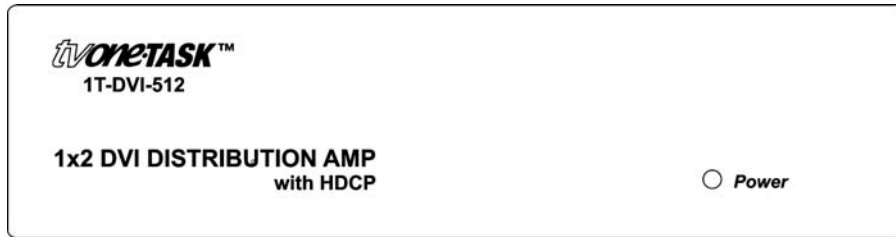
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x 1T-DVI-512 or 1x 1T-DVI-514 DVI Distribution Amplifier
- 1x AC Adapter
- 1x Operations Manual

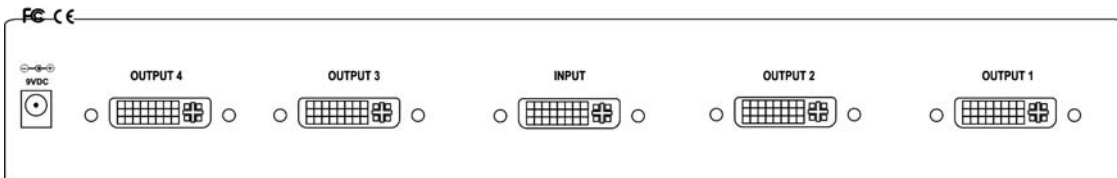
Note: Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

4.0 CONNECTING THE HARDWARE

Please study the panel drawings below and become familiar with the signal input, outputs and power requirements.



1T-DVI-512 1x2 DVI DA



1T-DVI-514 1x4 DVI DA

5.0 OPERATING THE UNIT

Before installation, please make sure all of devices have been turned off.

- Connect a DVI-I HDCP compliant signal to the input connector using premium quality cable.
- Connect 2 or 4 (depending on model) DVI-I HDCP compliant devices to the Distribution Amplifier's outputs using premium quality cable. *
- Plug the 9 VDC power adapter into the rear of the unit.
- Plug the Power Adapter into a working AC socket.
- Power on all input and output devices.
- The DVI-HDCP input signal should now be available to all devices connected to the device outputs.

** Note: A HDCP compliant monitor or other HDCP compliant device must be connected to output number 1 for the other outputs of the DA to function properly. Once connected, this output cannot be disconnected without adversely affecting the other outputs. The reason for this requirement has to do with the copy protection scheme used in HDCP devices and the DDC layer used to identify the characteristics of the connected devices. Also, because of the DDC layer, the resolution capability of the device on output number 1 is the defining factor for the resolution of all other outputs. For this reason, if you intend to feed monitors or projectors with the DAs outputs and the resolution capability of the devices vary, make certain you connect a device with resolution capability compatible with all monitors or projectors to output number 1.*

6.0 TROUBLESHOOTING

If the Distribution Amplifier does not appear to be functioning, make certain that the DVI source and all of the devices connected to the unit are functioning correctly by connecting each DVI device currently connected to the Amplifier's outputs directly to the DVI source using a cable with a length of 6 feet or less. (In other words, bypass the amplifier to make certain that the problem is not with the source or destination devices) If the signal is present under those conditions, make certain that the power is present to the DA. If it is, measure the cable length you are attempting to use between the sources to the switcher and the switcher to the monitor. The input cables should be 6 feet or less in length and the output cables must be less than 33 feet long and all cables should be premium quality. Lastly, inspect the cables and connectors for damage.

Note 1: If some devices connected to the DA outputs work but others do not, make certain that the devices that do not appear to work are HDCP compliant. A non-HDCP compliant device will not work with a signal that has HDCP encoding present.

Note 2: If you need to span a distance of greater than 6 feet to reach the DA's input, purchase TV One's 1T-DVI-RH repeater which will allow you to extend a cable run up to 40 feet using premium cable.

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-512 and 1T-DVI-514 DVI Distribution Amplifier has been tested for compliance with FCC and CE Regulations.

The Power Adaptor/Supply has been tested for compliance with UL, CSA & CE Regulations.

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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