



# Instruction Manual

**1T-DVI-RH**  
**DVI Repeater With HDCP**



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## **1.0 INTRODUCTION**

Thanks for purchasing this 1T-DVI-RH DVI Repeater from TV One. The 1T-DVI-RH DVI Repeater is designed to extend the distance a DVI signal with HDCP can be sent up to 40 feet (24 meters). 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-DVI-RH DVI Repeater with HDCP has many features that enable it to perform in a superior manner. Among those features you will find:

- Ultra-Compact, High Performance Unit
- Resolutions up to 1600x1200
- DDC Pass-thru from Display
- HDCP Compliant
- Extends DVI Signals 40 feet (using premium cable)
- Cascade up to 3 units (using premium cable)
- Rugged Metal Case

## 2.0 SPECIFICATIONS

<b>Performance</b>	
Maximum Distance	40 Feet (Note 1)
Maximum Cascade	3 Units (Note 1)
Maximum Pixel Rate	165Mhz @ 40' (12m) Maximum
Maximum Resolution	1600x1200@60Hz
I/O Connectors	DVI-I Female
<b>Indicators</b>	
Power On	LED
<b>Mechanical</b>	
Size (H-W-D)	1.15"x3"x4.65" (29x75x118mm)
Weight (Net)	11 oz (305g)
<b>Warranty</b>	
Limited Warranty	2 Years Parts and Labor
<b>Environmental</b>	
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
<b>Power Requirements</b>	
External Power Supply	9VDC@600ma
<b>Regulatory Approvals</b>	
Amplifier Units	FCC, CE
Power Supplies	UL, CE, CSA
<b>Accessories Included</b>	
1x AC Power Cable	US, UK or Euro Type
1x Operations Manual	
<b>Notes</b>	(1) Use Premium 24 gauge cable, such as Z-Plus Grade.

## 3.0 CHECKING PACKAGE CONTENTS

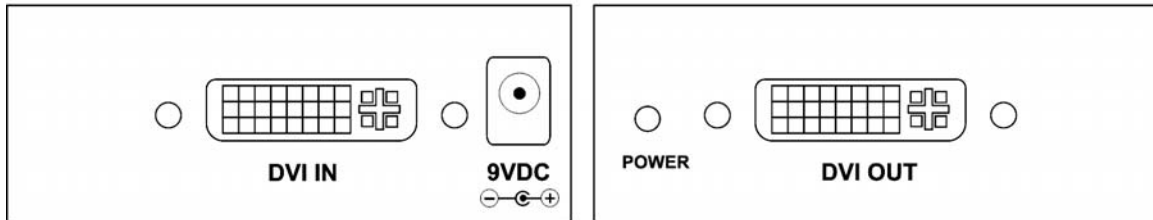
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1T-DVI-RH DVI-I HDCP Compliant Amplifier
- 1x AC 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, output and power input.



## 5.0 OPERATING THE UNIT

- Turn off DVI Source and the DVI capable monitor.
- Connect a DVI extension cable between the DVI Source and the 'DVI In' port of repeater.
- Connect a DVI extension cable between the monitor and the 'DVI out' port of repeater.
- Connect the DC power cord from the AC Adapter to the unit and plug the AC adapter into an active AC socket.
- Turn on the DVI Source and DVI capable monitor.

## 6.0 TROUBLESHOOTING

If the repeater does not appear to be functioning, make certain that both the DVI source and DVI capable monitor are functioning correctly by connecting the DVI source directly to the monitor using a cable with a length of 6 feet or less. If the signal is present, make certain that the Power On LED is lighted on the 1T-DVI-RH. If it is, measure the cable length you are attempting to use between the source to the repeater and the repeater to the monitor. The cable from the source to the repeater should be 6 foot long or less and the cable to the monitor must be no longer than 40 feet. *Note that you must use high quality 24 gauge cables to achieve the distance specified.* Lastly, inspect the cables and connectors for damage.

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-RH 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:

### **TV One USA**

1350 Jamike Drive  
Erlanger, KY 41018  
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Tel 800-721-4044  
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## NOTES

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## We Provide Solutions

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