



Instruction Manual

*tvone***TASK**

**1T-HDMI-612, 1T-HDMI-614 &
1T-HDMI-618
HDMI Distribution Amplifiers**

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1.0 INTRODUCTION

Thanks for purchasing this 1T-HDMI-612, 1T-HDMI-614 or 1T-HDMI-618 HDMI Distribution Amplifier from TV One. These Distribution Amplifiers are designed to provide a way to distribute up to 8 HDMI signals to other HDMI type devices without signal degradation or loss of encryption. Our professional video 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, 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-HDMI-600 series HDMI Distribution Amplifiers have many features that enable them to perform in a superior manner. Among those features you will find:

- Distributes 1 HDMI source to as many as 8 destinations
- Supports 480i, 480p, 720p, 1080i and 1080p resolution
- HDMI Certified by Silicon Images ATC Laboratory
- Supports DDWG standard for HDMI compliant monitors
- HDCP Compliant, RoHS Compliant

2.0 SPECIFICATIONS

Performance	
Resolutions Supported	480i, 480p, 720p, 1080i, 1080p
Maximum Cable Distance	Input: 15m Max, Outputs: 15m Max
Maximum Bandwidth	1.65GHz
HDMI Compliance	Version 1.2a
I/O Connectors	
Input	HDMI, TMDS x1 (All models)
Outputs	1T-HDMI-612: HDMI, TMDS x2 1T-HDMI-614: HDMI, TMDS x4 1T-HDMI-618: HDMI, TMDS x8
Mechanical	
Dimensions (H-W-D)	1T-HDMI-612 1.1x7.6x3.6" (28x192x90.4mm) 1T-HDMI-614 1.1x10.4x6" (28x264x153mm) 1T-HDMI-618 1.75x11.2x7" (44.5x284x175mm)
Weight	1T-HDMI-612 1.2 lbs (550g) 1T-HDMI-614 2.4 lbs (1080g) 1T-HDMI-618 3.2 lbs (1470kg)
Warranty	
Limited Warranty	2 Years Parts and Labor
Environmental	
Operating Temperature	+0 to +50° C (+32° to +104° F)
Operating Humidity	15% to 80% (Non-condensing)
Storage Temperature	-20° to +60° C (-20° to +140° F)
Storage Humidity	15% to 70% (Non-condensing)
Power Requirements	
External Power Supply	+5V@2A (Locking DC)
Regulatory Approvals	
Distribution Amplifier	FCC, CE, RoHS
Power Supplies	UL, CE, CSA, CEC, RoHS
Accessories Included	
1x AC Power Adapter	US, UK or Euro Type
1x Mounting Set	1 Set of Metalwork and Mounting Hardware
1x Instruction Manual	1T-HDMI-600 Series
Product Item Number	
1T-HDMI-612	2x1 HDMI Distribution Amp
1T-HDMI-614	4x1 HDMI Distribution Amp
1T-HDMI-618	8x1 HDMI Distribution Amp

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:

- 1 ea HDMI Distribution Amplifier
- 1 ea +5 VDC Power Adapter
- 1 ea Set of Mounting Metalwork & Hardware
- 1 ea Instruction 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

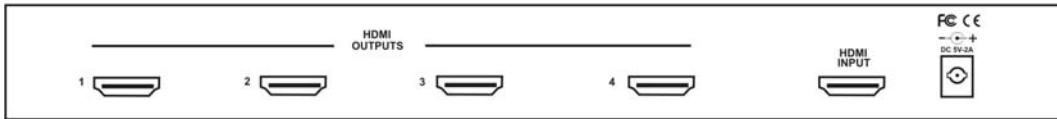
Please study the front and rear panel drawings below and become familiar with the signal input, outputs and power inputs.



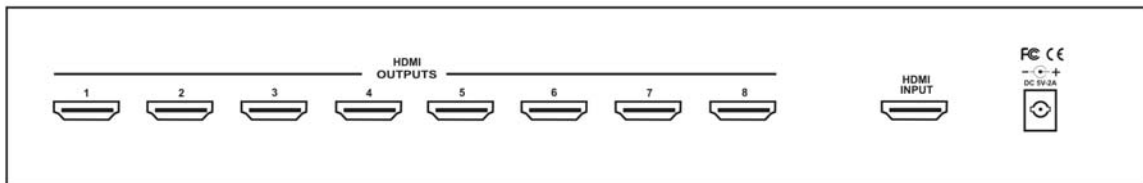
1T-HDMI-612
Distribution Amplifier



1T-HDMI-614 Distribution Amplifier



1T-HDMI-618 Distribution Amplifier



The 1T-HDMI-600 series Distribution Amplifiers are functionally identical with the exception of the number of outputs. All have a single HDMI input and a +5 VDC power input socket. These connectors as well as the outputs connectors are arrayed on the rear panel. There are no controls or switches on any of the units however all units have LEDs that indicate when the DA is furnishing a signal to an HDMI compliant device. Finally, there is no power switch. The unit will begin to function as soon as the AC adapter is connected to the unit and an AC supply.

5.0 OPERATING THE UNIT

To use any of the 1T-HDMI-600 series HDMI Distribution Amplifiers, connect an HDMI approved cable, no more than 6 feet in length, from the HDMI source to the input of the DA. Next, connect the outputs of the DA to their destination devices using HDMI approved cables no more than 50 feet long.* Lastly, connect the power adapter, first to the AC source and then to the DA. Turn on the HDMI source as well as the HDMI destination devices and you will see the source signal appear on the inputs of all of the destination devices and an LED will light indicating which outputs are active.

**Note: Proper operation of HDMI Distribution Amplifiers depends on the use of the highest quality cables available. TV One's Z-Plus HDMI cables provide low loss, high bandwidth signal handling and are the recommended cables for use with all HDMI products. The distance specification cannot be guaranteed unless Z-Plus cables or equivalent are used throughout the system.*

5.1 Resolution Tracking

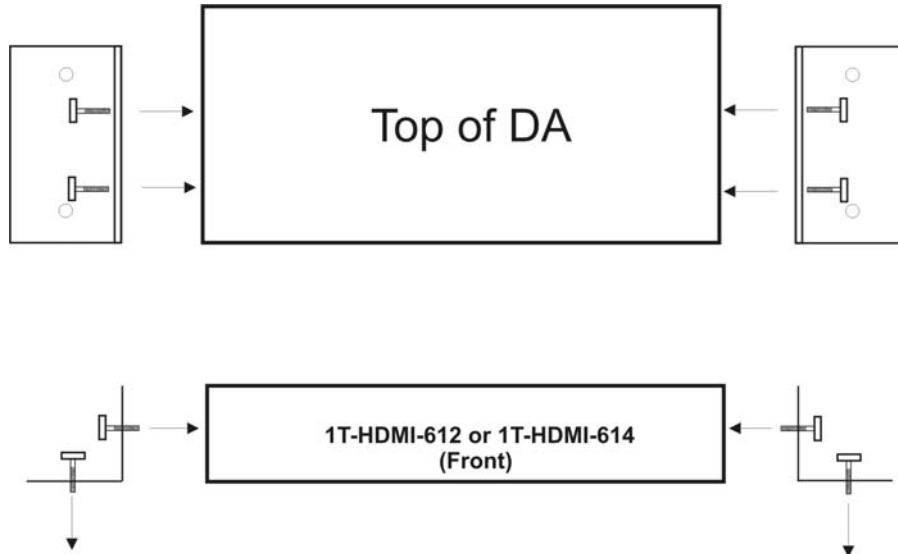
Since HDTV can be any of several different resolutions, the 1T-HDMI-600 series DA must be able to sense and process the various resolutions on both input and outputs. On the input, the DA will sense and accept any standard resolution however, on the outputs, the DA must sense the resolution capabilities of all of the display devices connected to it and then set the resolution of all outputs to the resolution of the display having the lowest resolution response characteristics. To do otherwise would mean that some display devices would not produce a picture. The user is advised to use display devices having the same resolution to avoid the DA's processing circuitry assuming the lowest common denominator status on all monitors with respect to display image resolution.

6.0 INSTALLATION OF MOUNTING COMPONENTS

The 1T-HDMI-612 and 1T-HDMI-614 DAs can be mounted on any flat surface and the 1T-HDMI-618 DA can be mounted in a standard 19" rack.

Mounting the 1T-HDMI-612 or 1T-HDMI-614 DAs

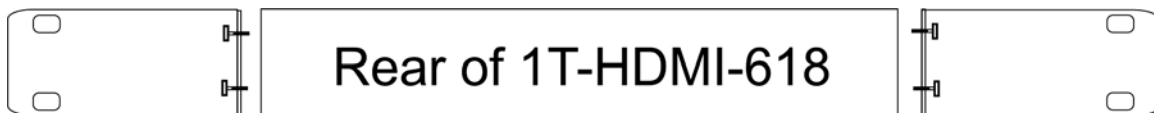
Attach the two "L" shaped mounting brackets to the product using the furnished hardware and then attach the combined assembly to the desired location.



Note that the holes on the brackets are offset to allow easier mounting to the flat surface after you've attached the brackets to the switcher.

Mounting the 1T-HDMI-618 DA

To mount the rack mounting brackets to the 1T-HDMI-618 Distribution Amplifier, merely attach the brackets to the 1T-HDMI-618 and then attach the combined assembly to the equipment rack using the furnished hardware.



7.0 TROUBLESHOOTING

In the event of problems, first make certain that the input cable is no more than 6 feet long and none of the output cables are more than 50 feet long.

Next, make certain that the Distribution Amplifier is receiving power by looking at the power LED. It should be illuminated and not flickering or intermittently going

on and off. Intermittent operation generally means a problem with the DC adapter or low AC voltage being applied to the DC adapter's input.

If all is well in these areas, remember that HDMI devices communicate with one another so the source device and all destination devices must be fully HDMI capable. In addition, HDCP encryption requires additional processing which also is dependent on the equipment you have connected to both the source and destination devices. If you experience problems using the Distribution Amplifiers, you should attempt to determine what is wrong by first attaching the source device directly to each of the destination devices in turn using the same cables you are using with the expanded system. This is a way of determining if the problem is due to bad cables or a problem with the other devices. If you are unable to obtain a signal using this simplified path, suspect the cables, the source device or the destination device.

After trying the above suggestions should the problem 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.

8.0 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.

9.0 REGULATORY COMPLIANCE

The 1T-HDMI-600 series Distribution Amplifiers have been tested for compliance with appropriate FCC and CE rules and regulations and are also RoHS compliant.

The Power Adaptor/Supplies have been tested for compliance with UL, CE, CEC and CSA rules and regulations and are also RoHS compliant.



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