



Instruction Manual

**1T-DA-472 and 1T-DA-474
RGBHV/YPbPr Distribution Amplifier
with Stereo Audio**

Table of Contents

1.0	Introduction	2
2.0	Specifications	3
3.0	Package Contents	4
4.0	Connecting the Hardware	4
5.0	Operating The Unit	5
6.0	Troubleshooting	5
7.0	Optional Rack Mounting Accessory	6
8.0	Limited Warranty	6
9.0	Regulatory Compliance	7
10.0	Contact Information	7

1.0 INTRODUCTION

Thanks for purchasing this 1T-DA-472 or 1T-DA-474 VGA Distribution Amplifier from TV One. These amplifiers are designed to provide multiple VGA Video and Stereo Audio signals. Model 1T-DA-472 provides two outputs from a single input, while model 1T-DA-474 provides four outputs. Our professional video conversion products have been serving the industry for over twenty years. TV One offers a full line of high quality Seamless Switchers, Video Scalers, Up/Down/Cross Converters, Analog-Digital Converters (SD/HD-SDI, HDMI, DVI), Format Converters, Standards Converters, TBC/Frame Synchronizers, Matrix Routing Switchers, Signal Distribution Amplifiers and Cat.5 Transmission Systems.

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-DA-472 and 1T-DA-474 Distribution Amplifiers have many features that enable them to perform in a superior manner. Among those features you will find:

- 500+ MHz Bandwidth Video
- Supports Resolutions up to 2560x1600
- 20Hz to 20KHz Stereo Audio
- Output Range up to 300 feet
- Locking DC Power Connector
- Supports DDC, DDC2, DDC2B (Output 1 Only)
- Amplifiers may be cascaded
- Rugged Metal Housing
- Ultra Compact Size

2.0 SPECIFICATIONS

Video Input	
Signal Type	RGBHV, RGBS, RGsB, YPbPr
Connector	1x HD-15 Female
R-G-B Level Range	0.5-2.0 Vp-p
Maximum Resolution	2560x1600
Audio Input	
Connector	1x 3.5mm Stereo Audio
Bandwidth/Level	20Hz-20KHz@0.5 to 1Vp-p
Video Outputs	
1T-DA-472	2x via HD-15 Female Connectors
1T-DA-474	4x via HD-15 Female Connectors
Audio Outputs	
1T-DA-472	2x via 3.5mm Audio Connectors
1T-DA-474	4x via 3.5mm Audio Connectors
General	
R-G-B Bandwidth	500+MHz
Maximum Distance	Up to 300' from amplifier (Note 1)
DDC Capability	DDC1, DDC2, DDC2B (Port 1)
Mechanical	
Size (H-W-D)	44x160x58mm (1.7"x6.3"x2.3")
Weight (Net)	400g (0.88 lbs)
Warranty	
Limited Warranty	3 Years Parts and Labor
Environmental	
Operating Temperature	0° to +50°C (+32° to +122°F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	10% to 90%, Non-condensing
Power Requirement	
External Power Supply	5VDC@2A - Locking Plug
Regulatory Approvals	
Amplifier Units	FCC, CE, RoHS
Power Supplies	UL, CUL, CE, PSE, GS, RoHS
Accessories Included	
1x AC Power Adapter	US, UK or Euro
1x Operations Manual	
Product Item Numbers	
1T-DA-472	2-Output Version
1T-DA-474	4-Output Version
Optional Accessories	
RM-320S	Rackmount kit for one unit
RM-320D	Rackmount kit for two units
Notes	
(1) To achieve the max rated distance, use premium cables.	

2.1 Input/Output Signals

Pin #	Signal
1	Red video
2	Green video
3	Blue video
4	ID2
5	Ground
6	Analog Ground
7	Analog Ground
8	Analog Ground

Pin #	Signal
9	NC
10	Ground
11	NC
12	DDC SDA
13	Horizontal Sync
14	Vertical Sync
15	DDC SCL

3.0 CHECKING PACKAGE CONTENTS

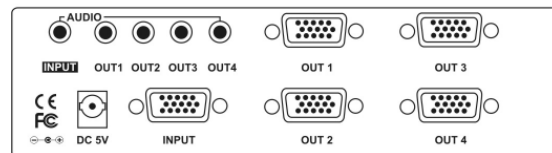
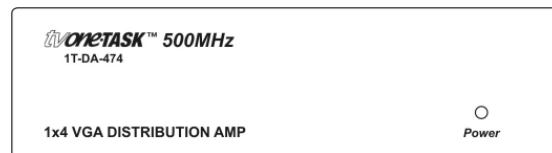
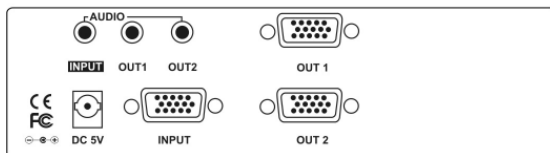
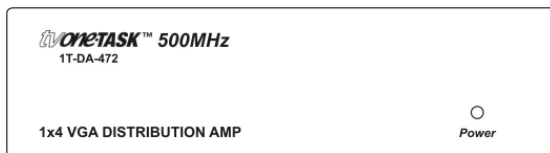
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x Distribution Amplifier
- 1x Power Adapter with 5VDC Output
- 1x User 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

The front of the device has a single LED that indicates when power is applied and the rear panel has the power connection, input connector and either two or four Video and Audio output connectors depending on which Distribution Amplifier you have purchased. Please take a moment to familiarize yourself with the location of the various signal connectors and the power input connector. Make certain you connect only the supplied power adaptor to the device as serious damage can result by using improper voltages.



5.0 OPERATING THE UNIT

5.1 Connect the Unit as follows:

1. Turn off power to Source Device (such as PC) and to all Destination Devices (such as Monitors)
2. Connect the Video Output of the Source Device to the Amplifier's Input with a HD-15-HD-15 cable
3. Connect the Audio Output of the Source Device to the Amplifier's Audio Input with a 3.5mm to 3.5mm cable
4. Connect the Video Input of the Destination Devices to the Video Output Connectors of the Amplifier with high quality HD-15 cables, up to 300 feet in length
5. Connect the Audio Input of the Destination Devices to the 3.5mm Audio Output Connectors of the Amplifier with high quality Audio Cables
6. Plug the DC Connector from the 5VDC Power Adapter provided into the Amplifier. Twist the DC Connector after inserting it to lock it in place
7. Plug the Power Adapter into an AC Outlet
8. Turn on power to the Source and Destination Devices

Note: If you connect a DDC Monitor to Output 1 of the Amplifier, all the other Monitors must be able to support the same high resolution as the DDC monitor.

5.2 Cascading

To display the same image on more Monitors than available amplifier outputs permit, you may cascade additional amplifiers. Connect the input of the additional amplifier with an HD-15 cable to an output of the original Amplifier. **Caution** - Signal degradation may occur if too many Amplifiers are cascaded.

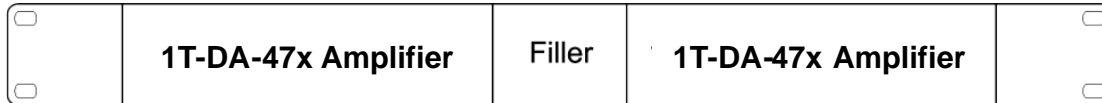
6.0 TROUBLESHOOTING

Problems with the 1T-DA-472 or 1T-DA-474 Distribution Amplifiers are rare. Most of the time, the problem is caused by the use of an incorrect cable for the signal type, too long a cable run, bad connectors on the cable and occasionally damaged cables. Bad grounds or use of different AC power sources for the Distribution Amplifier and the Signal Source and/or Display Device(s) may also cause problems due to ground loops. This can cause Video Distortion and hum in the audio.

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 OPTIONAL RACK MOUNTING KIT

There is an optional single or dual Rack Mount Kit, the RM-320S or RM-320D, available. An Allen head wrench and mounting screws are provided in the package along with the sufficient metal parts to mount either one or two Distribution Amplifiers.



To mount two Amplifiers, first fasten a short rack ear attachment to the left side of the first unit and fasten another short rack attachment to the right side of the second unit. Attach the “U” shaped filler piece between the two units. To mount a single Amplifier, fasten a short rack ear attachment to the left side of the unit and the long filler attachment to the other side.

8.0 LIMITED WARRANTY

TV One warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a fixed term from the date of purchase. The warranty term for specific product lines is defined below.

1. TV One branded products based on TV One’s CORIO technology are warranted for a period of five years from the date of purchase. This includes products with the model number prefix of C2, 1T-C2, CX, A2 or S2.
2. TV One-task branded products, other than those based on TV One’s CORIO technology mentioned above, are warranted for a period of three years from the date of purchase. This includes products with the model number prefix of 1T, with the exception of 1T-C2.
3. LCD Monitors are warranted for a period of three years from the date of purchase, with the exception of the LCD panels integrated into the monitors that are supplied by third parties. LCD panels are limited to the term and conditions of the warranty offered by the respective LCD panel manufacturer. Such specific LCD panel warranties are available upon request to TV One.

Should a 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.

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-DA-472 and 1T-DA-474 been tested for compliance with appropriate FCC and CE rules and regulations. The Power Adaptor/Supplies have been tested for compliance with appropriate UL, CUL, CE, PSE, GS Rules, Regulations and/or Guidelines. These Products and Power Adapters are RoHS Compliant.

10.0 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.

TV One USA

2791 Circleport Drive
Erlanger, KY 41018
USA
Tel 859-282-7303
Fax 859-282-8225
sales@tvone.com
www.tvone.com

TV One Latin America

6991 NW 82 Avenue #8
Miami, FL 33166
USA
Tel 305-396-6275
Fax 305-418-9306
sales.latinoamerica@tvone.com
www.tvonela.com

TV One Asia

11F, NO.28, Sec. 2
San-Min Rd, Panchiao City
Taipei Hsien 220
Taiwan R.O.C.
Tel +886 2 8951-0674
Fax +886 2 8951-0675
sales.asia@tvone.com
www.tvoneasia.com

TV One Europe

Continental Approach
Westwood Industrial Estate
Margate, Kent CT9 4JG, UK
Tel +44 (0)1843 873311
Fax +44 (0)1843 873312
sales.europe@tvone.com
www.tvone.eu

TV One Mercosur

Honduras 5849, 2nd Floor, Office C
(C1414BNI) Capital Federal
Buenos Aires, Argentina
Tel +54 11 4771-5570
Fax +54 11 4771-5570
sales.latinoamerica@tvone.com
www.tvonela.com

TV One China

Room 1007, Golden Peach Building
No. 1900 Shangcheng Road
Pudong, Shanghai
China 200120
Tel +86 21 5830-2960
Fax +86 21 5851-7949
sales.china@tvone.com
www.tvonechina.com

End of Manual