

# Instruction Manual

*PD-750CV and PD-750SV  
Video Distribution Amplifiers*



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## **1.0 INTRODUCTION**

Thanks for purchasing this Video Distribution Amplifier from TV One. The PD series D.A. is designed to distribute analog video signals to multiple destinations. 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 PD series Distribution Amplifiers have many features that enable them to perform in a superior manner. Among those features you will find:

- High Bandwidth
- 6 Output from a Single Input
- Loop Through input
- Internal, selectable, 75  $\Omega$  termination
- Level Control
- Equalized Outputs (PD-750CV)
- Multi standard Operation

## 2.0 SPECIFICATIONS

<b>Signal Performance</b>	
Bandwidth	100MHz,+/-3db
Impedance	75Ω
Differential Gain	<0.1%
Differential Phase	<0.1°
Isolation	>75db
Signal/Noise Ratio	>65db
Signal Gain	Variable +/- 3db of Unity
Television Standards	PAL-NTSC
Equalization	To 1000 feet (PD-750CV only)
Input	Looping with Supplementary 75Ω Switchable Termination
PD-750CV Connectors	BNC
PD-750SV Connectors	4-Pin Mini-DIN
<b>Mechanical</b>	
PD-750 (HWD)	1.4"x8.5"x5.2"(36x215x130mm)
Weight (Net)	1,8lbs (0.8kg)
RM-200 (HWD)	1.75"x19"x7" (44x482x178mm)
Weight (Net)	2.4 lbs (1.1 kg)
<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>Warranty</b>	
Limited Warranty	2 Years Parts and Labor
<b>Power Requirement</b>	
External Power Supply	12VDC@500mA - Locking DC
<b>Regulatory Approvals</b>	
Amplifier Units	FCC, CE
Power Supplies	UL, CE, CSA
<b>Accessories Included</b>	
1x Video Cable	6' (2m) BNC or S-Video
1x Power Adapter	US, UK or Euro or Type
1x Operations Manual	
<b>Product Item Numbers</b>	
PD-750CV	1x6 Composite Video DA
PD-750SV	1x6 S-Video (Y/C) DA
RM-200	Dual Rackmount Assembly

## 3.0 CHECKING PACKAGE CONTENTS

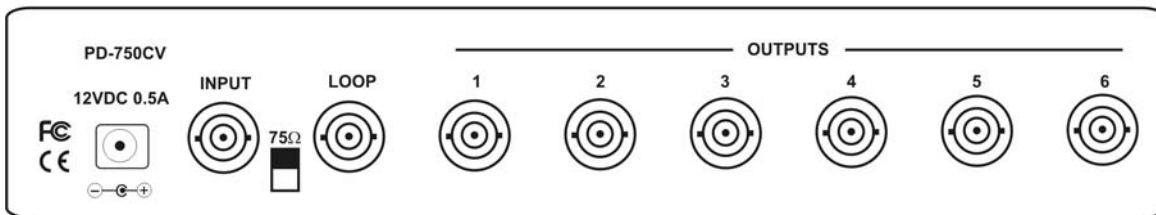
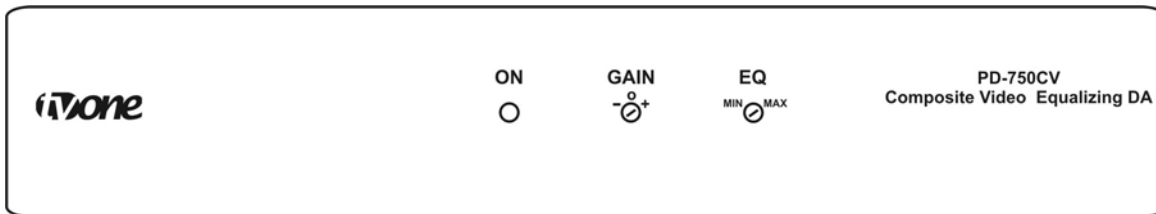
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- PD-750CV/PD-750SV Video Distribution Amplifier
- 100/240 VAC@50/50 Hz to +12 VDC Power Adaptor
- 6' (2m) BNC to BNC or 6' (2m) S-Video to S-Video
- Operation Manual

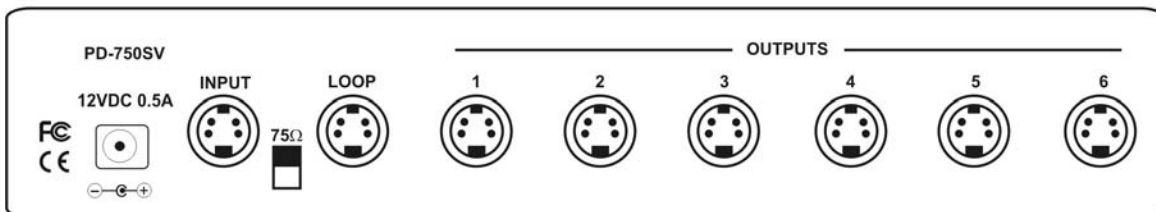
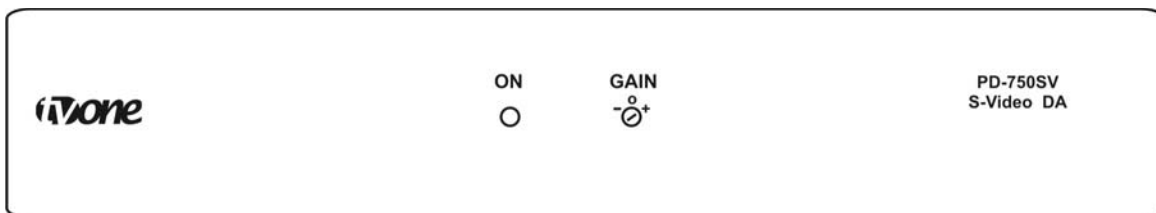
**Note:** Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

#### 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.



PD-750CV



PD-750SV

## 4.1 Input / Output Connections

The first step is to connect the video source to the “INPUT” connector and then the output(s) to the proper destination(s).

*Note: All outputs are active. All outputs can be used simultaneously or just one of the outputs can be used according to the user’s needs.*

Be sure the input is properly terminated with 75  $\Omega$ . If no “Loop Through” output cable is needed, the slide switch has to be in the up position, thus connecting the internal termination.

Should the user need to use the “Loop Through” output, the switch has to be down, disconnecting the internal termination. In this case it is the user’s responsibility to properly terminate the input circuitry by connecting a 75  $\Omega$  load at the end of the loop.

## 4.2 Connecting Power to the Unit

The PD-750CV and PD-750SV are shipped with an AC Power Adapter to convert 100~240VAC@50-60Hz to +12 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 unit is plugged in, the unit will become operational and the LED labeled “ON” on the front panel will illuminate.

## 5.0 OPERATING THE UNIT

Connect the AC to DC power adaptor to the appropriate AC source and then connect the input and output cables to the unit.

Video output level can be adjusted with the pot signaled “GAIN” in the front panel. Center – detent – position is factory calibrated unity gain, going clockwise will increment gain and counterclockwise will decrease it.

On the PD-750SV, the Video equalization – high frequency response - can be controlled by means of the “EQ” labeled pot. Zero equalization is obtained in the fully counterclockwise position, while maximum is at the full clockwise.

## 6.0 TROUBLESHOOTING

Other than checking for faulty cables, one common problem would be operating without a proper termination. Make sure 75  $\Omega$  slide switch is in the correct position.

Other common problem would be excess of equalization, try to take Equalization Control to the minimum to see if the problem disappears.

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:

### **TV One USA**

1350 Jamike Drive  
Erlanger, KY 41018  
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Tel 859-282-7303  
Fax 859-282-8225  
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www.tvone.com

### **TV One Latin America**

2790 NW 79 Ave  
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Tel 305-418-9305  
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## NOTES

## NOTES



## We Provide Solutions

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