

Instruction Manual

SD-108M
SDI Distribution Amplifier

Table Of Contents

1.0	Introduction	4
2.0	Specifications	5
3.0	Checking Package Contents	5
4.0	Connecting the Hardware	6
5.0	Operating The Unit	7
6.0	Troubleshooting	7
7.0	Limited Warranty	8
8.0	Regulatory Compliance	8
9.0	Contact Information	9

1.0 INTRODUCTION

Thanks for purchasing this SD-108M SDI Distribution Amplifier from TV One. The SD-108M is designed to equalize, reclock and distribute SDI signals. 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.

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1.2 FEATURES

The SD-108M has many features that enable it to perform in a superior manner. Among those features you will find:

- Automatic Multi-format Serial Digital video
- 8 Outputs from a Single Input
- Equalized and Re-clocked Outputs
- Desktop Case with Optional Rackmount

2.0 SPECIFICATIONS

Video Input	
Serial Digital	1x via BNC Connector
Video Outputs	
Serial Digital	8x via BNC Connectors
Signal Standards	
Multi-format (Auto-select)	143, 177, 270 or 370Mbps/s
Video Specifications	
Impedance	75 Ω
Return loss	>15 dB
Signal level	800 mV +/- 10%
Overshoot	<10%
Added jitter	<0.2 Unit intervals
Equalization	>300 meters of 8281 Cable
DC Offset	0 +/- 0.5 Volt

3.0 CHECKING PACKAGE CONTENTS

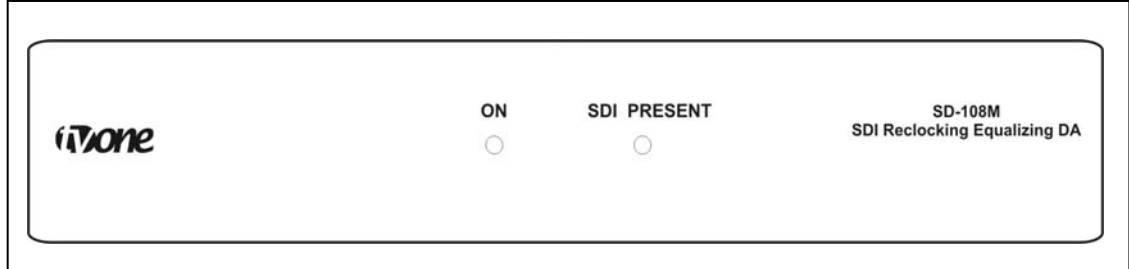
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- SD-108M SDI Distribution Amplifier
- 100/240 VAC @ 50/50 Hz to +5 VDC Power Adaptor
- 6' (2m) BNC to BNC Cable
- Operation Manual

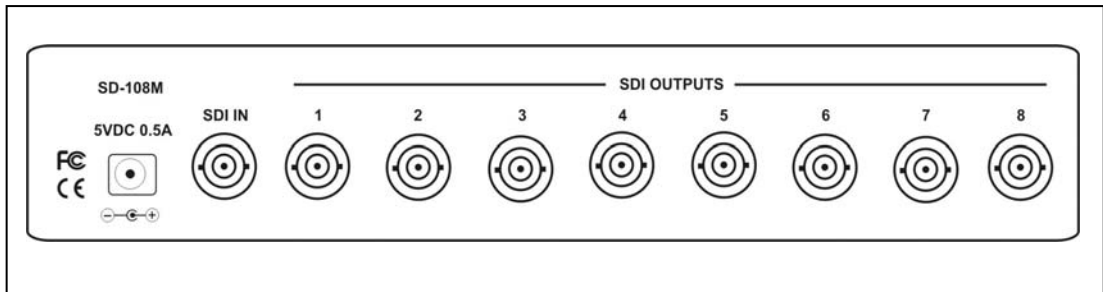
Note: Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

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.



SD-108M Front Panel



SD-108M Rear Panel

4.1 Input / Output Connections

Connect the SDI source to the “SDI IN” BNC connector and then connect the output(s) to their proper destination(s).

All SD-108M outputs are active. All outputs can be used simultaneously or just one of the outputs can be used according to the user’s needs.

4.2 Connecting Power to the Unit

The SD-108M is shipped with an AC Power Adapter to convert 100~240VAC@50-60Hz to +5 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 Power labeled front panel LED 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.

The SDI Distribution Amplifier is fully automatic. It needs only power and an SDI video signal, connected to the input BNC connector, to function. There are no user controls; the SD-108M automatically adjusts to the input SDI rate. Equalization of the input signal (to compensate for cable losses) is also automatic.

There is an LED on the front panel labeled SDI Present. This LED illuminates as soon as a SDI video signal is detected at the input.

6.0 TROUBLESHOOTING

Other than checking for faulty cables, the other common problem would be operating with a wrong standard. Make sure SDI input is SMPTE 259M standard.

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:

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