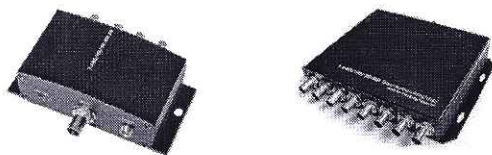


SD/HD/3G-SDI 1 to 4/8 Distribution Amplifier



NOTE: The casing design is subject to change without notice.

The distribution amplifier could split a single SDI source data to several video display and simultaneously amplify SDI signal. There is no video signal loss in the switching process. It supports almost all HD video formats which is SMPTE compliant. It can also achieve up to 1080p@60Hz for Full HD video performance perfectly.

In professional application systems, it is specially designed to several digital display terminals to show the same SDI video simultaneously. It is widely applied to surveillance, broadcast TV station, TV media, video conferences, electronic teaching, wired network areas, etc.

Features

- Support SD-SDI (270Mbps), HD-SDI (1.485Gbps) & 3G-SDI (2.97Gbps)
- Full HD video format
- Built-in Cable Equalizer, Re-clocker & Cable Driver
- Max. cable length (Belden 1694A): SD-SDI 400m/1300ft, HD-SDI 200m/600ft, 3G-SDI 140m/450ft
- Excellent SDI signal jitter suppression function
- Power supply and SDI signal format indicator
- Embedded ESD to protect the circuit
- 5V~24V DC

R201212-V2.1



Please read the **Manual** before attempting to use this product.
Specifications and appearance are subject to change without notice.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN!



TO REDUCE THE RISK OF ELECTRICAL SHOCK,
DO NOT OPEN COVERS (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Caution

- Handle this product with care**
Avoid any shock or bumping of the product. Improper handling could damage the product. Do not handle the unit with wet hands. Provide proper ventilation and air circulation and do not use near water.
- Requires a proper operating environment**
This product is not waterproof and is designed for indoor use. The allowable temperature range for operation of this product is between 0°C~40°C / 32°F~104°F.
- Check the power source voltage**
The power source voltage should be within the specified range. (Product must meet the specifications).

2

4. Objects and liquid entry

Never push objects of any kind into this product as this may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product.

5. Cleaning

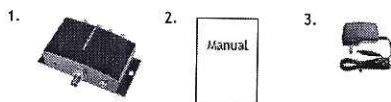
Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

6. Servicing

Do not attempt to service this product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

Package Contents

1. One (1) SD/HD/3G-SDI Video distribution Amplifier
2. One (1) User Manual
3. One (1) AC Adapter



For any returns, please include all components listed above with original packaging in **Resalable Condition**. Absolutely No Returns will be accepted if any component is missing/damaged.

Parts & Functions



SD/HD/3G-SDI 1 to 4 Distribution Amplifier Left side Layout



SD/HD/3G-SDI 1 to 4 Distribution Amplifier Right side Layout



SD/HD/3G-SDI 1 to 8 Distribution Amplifier Rear Panel Layout

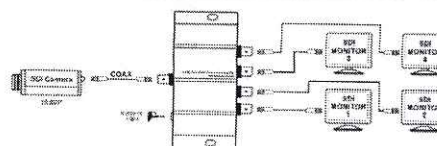


SD/HD/3G-SDI 1 to 8 Distribution Amplifier Front Panel Layout

Name	Color	Status	Description
SDI	Green	ON	SDI signal is active
		OFF	SDI signal is inactive
POWER	Green	ON	Power on
		OFF	Power off

* The distance depends on the quality of the SDI signal from HD camera source and also the Coax Cable & Connector

Application Diagram



- ### Technical Specifications

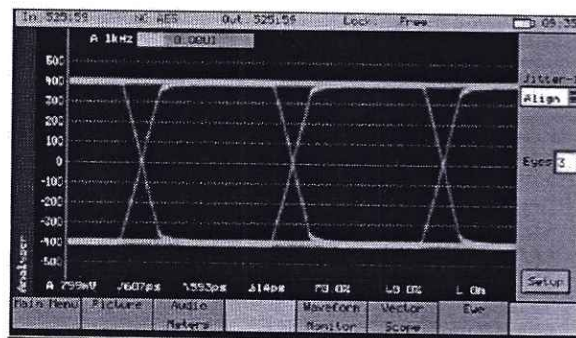
*Specifications are subject to change without notice.

Name of Component	Manufacturer
<i>Multi-Rate SDI Adoptive Cable Equalizer</i>	Gennum
<i>Multi-Rate SDI Automatic Reclocker</i>	Gennum
<i>Multi-Rate Dual Slew-Rate Cable Driver</i>	Mindspeed & Gennum
<i>SDI SPD</i>	Bourns
<i>HDMI ESD Protection</i>	Semtech
<i>Micro Controller Unit</i>	Texas Instruments

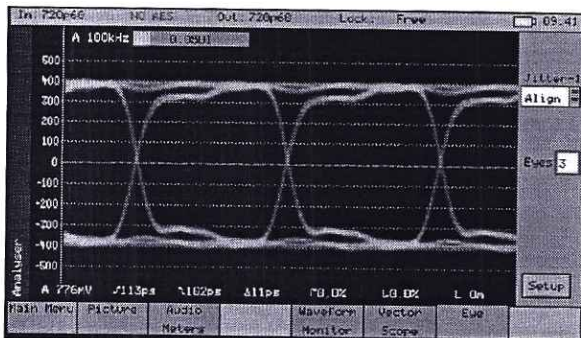
Name of Component	Manufacturer
DC/DC Converter	Richtek

Eye Diagram

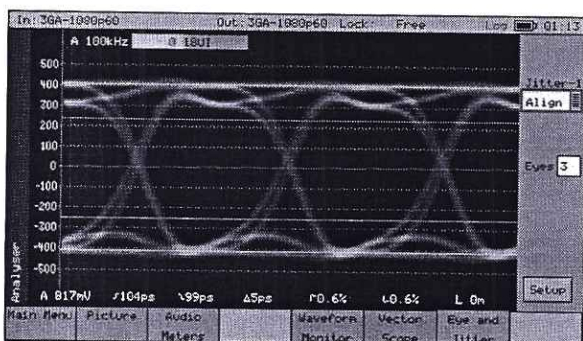
SD-SDI Mode



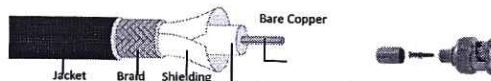
HD-SDI Mode



3G-SDI Mode



- Good Quality Cable:** We suggest using RG6 Belden 1694A [Low Loss Serial Digital](#) coax cable because RG6 cables have better grounding than RG59 cables. RG6 is for Digital Signal and RG59 is for Analog Signal.
- Good Quality BNC Connectors:** Contact Plating Gold plated pins provide exceptional conductivity.
- Good Quality Installation:** Do not over cut the braid because it will affect the grounding. The image will have lines and noise.



Limited Warranty

LIMITED ONE (1) YEAR WARRANTY AND EXCLUSIONS

Manufacturer warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Manufacturer is free of defects in materials and workmanship under normal and proper use for one (1) year from the purchase date. Manufacturer's only obligation is to correct such defects by repair or replacement, at its option, if within such one (1) year period the product is returned prepaid, with proof of purchase date, and a description of the problem. This warrant excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is voided if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other implied warranties of any kind, including merchantability and fitness or a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warrant, including merchantability and fitness of or a particular purpose, is limited to one (1) year. Manufacturer is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or failure to perform this warranty obligation. The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.