



## PRO-12GSDI8P

1x8 12G/6G/3G/HD/SD-SDI Distribution Amplifier with Reclocking

### **User's Guide**











Congratulations for owning a gofanco product. Our products aim to meet all your connectivity needs wherever you go.

Have fun with our products!

Please read this manual carefully before first use.

If you need more information about our products, please visit www.gofanco.com.

For technical support, please email us at support@gofanco.com.

For drivers/manuals download, please go to http://www.gofanco.com/download.



### 1. Introduction

The PRO-12GSDI8P 1x8 12G/6G/3G/HD/SD-SDI Distribution Amplifier with Reclocking receives one SDI input, perfectly duplicates it, and re-transmits eight SDI outputs for real time multi-viewing. It is a reliable video device splitting an SDI, HD-SDI, 3G-SDI, 6G-SDI, or 12G-SDI video source to eight SDI compliant displays at the same time.

#### 2. Features

- 12G/6G/3G/HD/SD-SDI distribution
- Eight independently buffered and reclocked outputs\*
- · Cable equalization and signal retiming
- · LED indication of signal lock and video rate
- Pass ancillary data and embedded audio
- Provides automatic input cable equalization (Belden 1694A) up to 180m (594ft)@3G, 100m (330ft)@6G and 70m(230ft) @12G
- Reclocking SDI signals for cascading and thus longer transmission
- Inter-locked power supply for better fixedness
  - ★ Due to the super high frequency and lower jitter requirement for 12G SDI signals, to have the best performance, it is strongly recommended to use one 75 ohm terminator if the paired SDI in not in use.

Please see the following table for 12G SDI output pairing.

#### Table #1

	Output Port	
Pair A	Output 1 & 2	
Pair B	Output 3 & 4	

	Output Port	
Pair C	Output 5 & 6	
Pair D	Output 7 & 8	

# 3. Package Contents

- 1x PRO-12GSDI8P
- 1x 5V power adapter
- 1x BNC 75 ohm terminator
- 1x User Manual



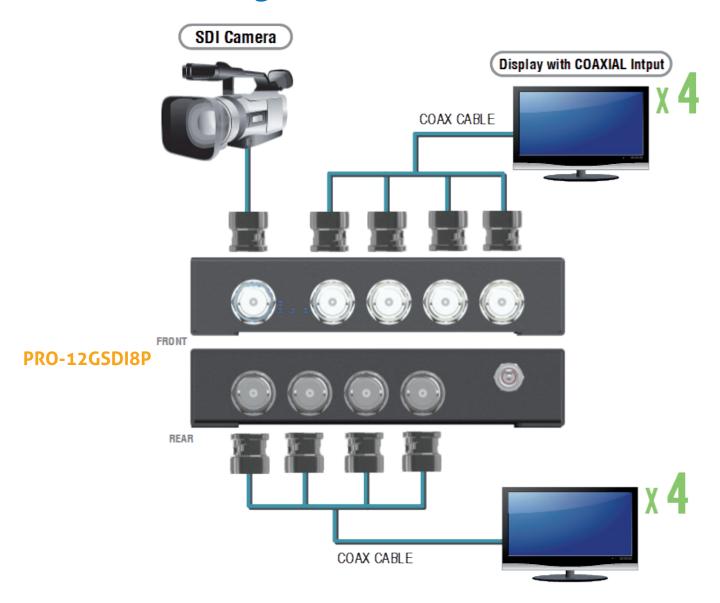
# 4. Specifications

ltem		Description		
SDI standard		SD/HD/3G/6G/12G-SDI		
Multi-Rate Si	upport	Auto detection of SD, HD, 3G, 6G or 12G Signals		
SDI Complia	nce	SMPTE 424M, SMPTE 292M, SMPTE 344M, SMPTE 259M, DVB-ASI, ST-2081(6G), ST2082(12G)		
SDI Data rate	25	1.485 / 2.97 / 5.94 / 11.88 Gbps		
Video bandw	vidth	[11.88Gpbs & 11.88/1.001Gbps]		
<b>Output impe</b>	dance	75π		
Reclocking		Yes		
Cable equalization		[12G] up to 70m (230ft) [6G] up to 100m (330ft) [3G] up to 180m (594ft)		
Audio suppo	rt	Yes		
RP-198 path	ological	Immune		
patterns				
PCB stack-up	)	4-layer board [impedance control — differential 100 $\pi$ ; single 75 $\pi$		
Input		1x BNC [SDI]		
Output		8х BNC [:		
BNC connect	or	75π inter-locked socket		
Eye pattern characteristics[12G]		Amplitude: Within 800mV (<10%) Rise/Fall time: Less than 35ps	Timing jitter: <1.0 UI (10Hz to 1188MHz) Alignment jitter: <0.3 (100KHz to 1188MHz)	
Mechanical				
Housing		Metal enclosure		
Model		133 x 53 x 28 mm [5.2" x 2.1" x 1.1"]		
Dimensions [L x D x H]	Package	198 x 137 x 74mm [7.8" x 5.4" x 2.9"]		
	Carton	420 x 400 x 300mm [1'4"x 1'3" x 11.8"]		
Weight	Model	198g [7 oz]		
	Package	425g [0.9 lbs]		
Fixedness		Inter-locked power supply		
Power supply		5V 1A [	5V 1A DC	
Power consumption		3.5 Watts [max]		
Operation temperature		0~40°C [32~104°F]		
Storage temperature		-20~60°C [-4~140°F]		
Relative hum	nidity	20~90% RH [no condensation]		

<sup>\*</sup> The measurement results are from Phabrix QX with SDI through 1m (3.3ft) long Belden 1694A.



# 5. Connection Diagram



#### 6. Hardware Installation

- 1. Connect an SDI camera or other SDI devices to the PRO-12GSDI8P's SDI input.
- 2. Connect SDI sink devices (e.g. monitors or video processors) to the PRO-12GSDI8P's outputs.
- 3. Plug the power adapter into a reliable power outlet.



## 7. Panel Description

#### Front Panel



Rear Panel



- 1. 12G/6G/3G/HD/SD-SDI output
- 2. Micro-USB for F/W update
- 3.5V DC power jack
- 4. 12G/6G/3G/HD/SD-SDI input
- 5. Power LED indicator
- 6. 12G Signal LED indicator
- 7.6G Signal LED indicator
- 8.3G Signal LED indicator
- 9. HD Signal LED indicator
- 10. SD Signal LED indicator
- 11. 12G/6G/3G/HD/SD-SDI output



#### 11. Limited Warranty

The SELLER warrants the **PRO-12GSDI8P 1x8 12G/6G/3G/HD/SD-SDI Distribution Amplifier with Reclocking** to be free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables are limited to a 30 day warranty and cable must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the PRO-12GSDI8P features and specifications is subject to change without further notice.

#### Disclaimer

The product name and brand name may be registered trademarks of related manufacturers. TM and ® may be omitted on the user's guide. The pictures on the user's guide are just for reference, and there may be some slight differences with the actual products.

We reserve the rights to make changes without prior notice to a product or system described herein to improve reliability, function, or design.

