



PRO-12GSDI2P

1x2 12G/6G/3G/HD/SD-SDI Distribution Amplifier with Reclocking

User's Guide











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1. Introduction

The PRO-12GSDI2P 1x2 12G/6G/3G/HD/SD-SDI Distribution Amplifier with Reclocking receives one SDI input, perfectly duplicates it, and re-transmits two 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 two SDI compliant displays at the same time.

2. Features

- 12G/6G/3G/HD/SD-SDI distribution
- Two 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

3. Package Contents

- 1x PRO-12GSDI2P
- 1x 5V power adapter
- 1x User Manual



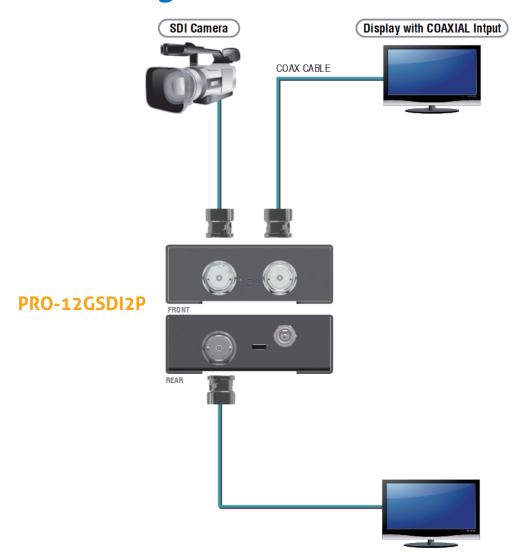
4. Specifications

ltem		Description	
SDI standard		SD/HD/3G/6G/12G-SDI	
Multi-Rate Support		Auto detection of SD, HD, 3G, 6G or 12G Signals	
SDI Compliance		SMPTE 424M, SMPTE 292M, SMPTE 344M, SMPTE 259M, DVB-ASI, ST-2081(6G), ST2082(12G)	
SDI Data rates		1.485 / 2.97 / 5.94 / 11.88 Gbps	
Video bandwidth		[11.88Gpbs & 11.88/1.001Gbps]	
Output impedance		75π	
Reclocking		Yes	
Cable equalization		[12G] up to 70m (230ft) [6G] up to 100m (330ft) [3G] up to 180m (594ft)	
Audio support		Yes	
RP-198 pathological		Immune	
patterns			
PCB stack-up		4-layer board [impedance control — differential 100 π ; single 75 π]	
Input		1x BNC [SDI]	
Output		2x BNC [SDI]	
BNC connector		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	
Dimensions [L x D x H]	Model	77 x 42 x 28 mm [3" x 1.7" x 1.1"]	
	Package	165 x 111 x 42mm [6.4" x 4.4" x 1.7"]	
	Carton	490 x 426 x 352mm [1'6" x 1'4" x 13.8"]	
Weight	Model	89g [3.1 oz]	
	Package	316g [0.7 lbs]	
Fixedness		Inter-locked power supply	
Power supply		5V 0.85A DC	
Power consumption		2.5 Watts [max]	
Operation temperature		0~40°C [32~104°F]	
Storage temperature		-20~60°C [-4~140°F]	
Relative humidity		20~90% RH [no condensation]	

^{*} The measurement results are from Phabrix QX with SDI through 1m (3.3ft) long Belden 1694A.



5. Connection Diagram



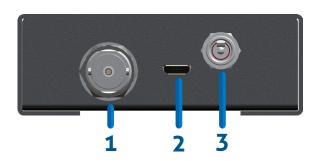
6. Hardware Installation

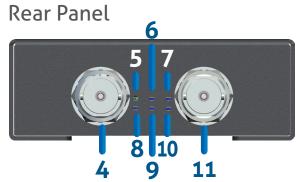
- 1. Connect an SDI camera or other SDI devices to the PRO-12GSDI2P's SDI input.
- 2. Connect SDI sink devices (e.g. monitors or video processors) to the PRO-12GSDI2P's outputs.
- 3. Plug the power adapter into a reliable power outlet.



7. Panel Description

Front 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-12GSDI2P 1x2 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-12GSDI2P features and specifications is subject to change without further notice.

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