SW-3008

8x1 HD/SD-SDI Switch

User Manual













rev: 120813 Made in Taiwan



The **SW-3008 8x1 HD/SD-SDI Switch** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the **SW-3008** should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



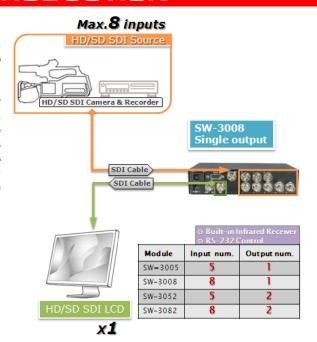
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INTRODUCTION

SPECIFICATIONS

The **SW-3008** receives, equalizes, and reclocks* up to 8 SDI inputs, perfectly switches the desired input to SDI equipped monitors or receivers. The switch supports both HD/SD-SDI bit rates, and the re-transmitted quality is guaranteed. Through RS-232, IR remote, or front panel push button, the control of the SDI switch becomes versatile and easier. SW-3008 offers the most convenient and cost effective means for swift switch and duplication of high quality SDI in the market.



*Optional upon request

FEATURES

- HD / SD-SDI switch
- Up to 8 input & re-timing SDI outputs*
- Dual color indication LED of HD / SD of the output SDI
- · Automatic detection of the SDI Input
- Synchronizes input/output (switch after vertical sync)
- Provides the equalized and reclocked* transmission path up to 300m (1000ft) at SD-SDI or 150m (500ft) at HD-SDI
- Multiple control by RS-232, IR remote, and push button

PACKAGE CONTENTS

- 1 x SW-3005 / SW-3052 / SW-3008 / SW-3082
- 1 x IR remote controller
- 1 x 5V power adapter
- 1 x User Manual

Model Name		SW-3005	SW-3052	SW-3008	SW-3082		
Technical							
Role of usage		5x1 switch	5x2 matrix switch	8x1 switch	8x2 matrix switch		
SDI standards		SD-SDI & HD-SDI					
Auto HD/SD-S	DI detection	Yes					
Supported prof	tocols	SMPTE 259M / SMPTE 292M					
Video bandwid	th	Single-link [1.485Gpbs & 1.485/1.001Gbps]					
Data rates		143 / 270 / 1483 / 1485 Mbps					
Video support		[HD] 720p50/59.94/60, 1035i50/59.94/60, 1080i50/59.94/60, 1080p24/30 [SD] NTSC@59.94Hz, PAL@50Hz					
Output impeda	ince	75Ω					
Reclocking fun	ction	Optional upon request					
Cable equaliza	ition	[HD-SDI] up to 150m (500ft) / [SD-SDI] up to 300m (1000ft)					
Loop-out		Synchronized BNC loop-out at input and output					
Audio support		Yes					
RP-918 pathological patterns		Immune					
PCB stack-up		4-layer board [impedance control — differential 100Ω ; single 50Ω]					
Input		5x BNC [SDI]	5x BNC [SDI]	8x BNC [SDI]	8x BNC [SDI]		
Output		1x BNC [SDI]	2x BNC [SDI]	1x BNC [SDI]	2x BNC [SDI]		
BNC connector		75Ω inter-locked socket					
Eye pattern characteristics (HD-SDI)		Amplitude: Within 800mV ±3% (<10%) Rise overshoot: Less than 2% (<10%) Fall overshoot: Less than 2% (<10%) Alignment jitter: 0.195UI (<1.0UI) Alignment jitter: 0.127UI (<0.2UI)					
Mechanical							
Housing		Metal case					
	Model		187 x 125 x 43mm	[7.4"x4.9"x1.7"]			
Dimensions [L x W x H]	Package	330 x 200 x 95mm [1'1"x7.9"x3.7"]					
[= × · · · · · · · · · · · · · · · · · ·	Carton	495 x 440x 380mm [1'7.5"x1'5.3"x1'3"]					
Weight	Model	890g [2.0 lbs]	890g [2.0 lbs]	890g [2.0 lbs]	890g [2.0 lbs]		
vveignt	Package	g [lbs]	g [lbs]	g [lbs]	g [lbs]		
Fixedness		Inter-locked power supply					
Power supply		5V 4A DC					
Power consum	ption	10 Watts [max]					
Operation temperature		0~40°C [32~104°F]					
Storage tempe	rature	-20~60°C [-4~140°F]					
Relative humic	lity	20~90% RH [no condensation]					

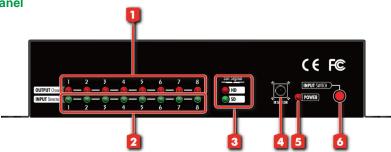


The measurement results are from Tektronix VFM-700 with SDI through 1m (3.3ft) long Belden 1694A.

PANEL DESCRIPTIONS

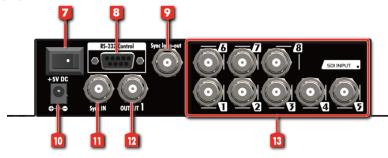
HARDWARE INSTALLATION

Front Panel



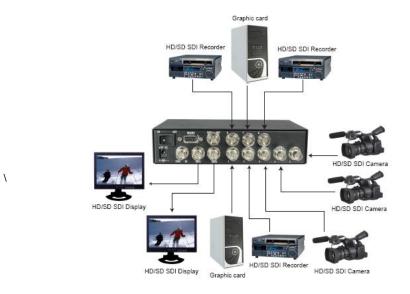
- Chosen input channel LED
- 2. Input channel auto detection LED
- Output HD/SD detection LED 3.
- IR remote receiver
- 5. Power indicator LED
- Push button for input channel switch

Rear Panel



- Power switch
- RS-232 control port for PC control
- Synchronized signal loop-out (add 75Ω terminator if not connect)
- 10. 5V DC power jack
- 11. Synchronized SDI signal input
- 12. SDI output
- 13. SDI input

- 1. Connect SDI enable equipments to the output of SW-3008.
- 2. Connect the SDI input sources to the inputs of SW-3008.
- 3. Plug power adapter cable into 5V DC power jack.
- 4. Use IR remote, RS-232, or front panel push button to switch between input channels.



IR REMOTE CONTROL

: Reserved

: To the left



Reserved

Menu

E To the right : Reserved

Channel 1

Channel 2

Reserved (F1): Channel 3

F2): Channel 4

F3) : Channel 5

F4): Channel 6

F5): Channel 7

F6): Channel 8

WARRANTY

The SELLER warrants the **SW-3008** 8x1 HD/SD-SDI Switch 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 surges.

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 **SW-3008** features and specifications is subject to change without further notice.