



8 Port HD/SD-SDI Switch



Model #: SW-HDSDI-8X1

HD-SD

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Section 1: Getting Started

1.1 Important Safeguards

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
 - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - Repair or attempted repair by anyone not authorized by us.
 - Any damage of the product due to shipment.
 - Removal or installation of the product.
 - Causes external to the product, such as electric power fluctuation or failure.
 - Use of supplies or parts not meeting our specifications.
 - Normal wear and tear.
 - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

1.2 Safety Instructions

The SW-HDSDI-8X1, 8 Port 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 equipment's, the SW-HDSDI-8X1 should be used with care. Read the following safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Do not dismantle the housing or modify the module.
- Dismantling the housing or modifying the module may result in electrical shock or burn.
- Refer all servicing to qualified service personnel.
- Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Have the module checked by a qualified service engineer before using it again.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

1.3 Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

1.4 Introduction

Avenview SW-HDSDI-8X1, 8 Port HD/SD-SDI Switch receives, equalizes 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-transmits video signal without degradation. Through RS-232, IR remote, or front panel push button, the control of the SDI switch becomes versatile and easier. SW-HDSDI-8X1 offers the most convenient and cost effective means for swift switch and duplication of high quality SDI in the market.

- HD/SD-SDI Switch
- 8 equalized SDI inputs
- Dual color LED indication of HD/SD of the output SDI
- Automatic detection of the SDI input
- SYNC IN/OUT
- Low cost 8X1 HD/SD (dual rate) Switch with Dual Outputs (Splitter)
- Provides the equalized transmission path up to 300m (1000 feet) for HD cases
- Multiple control by RS232, IR remote, and push button

1.5 Package Contents

Before you start the installation of the converter, please check the package contents.

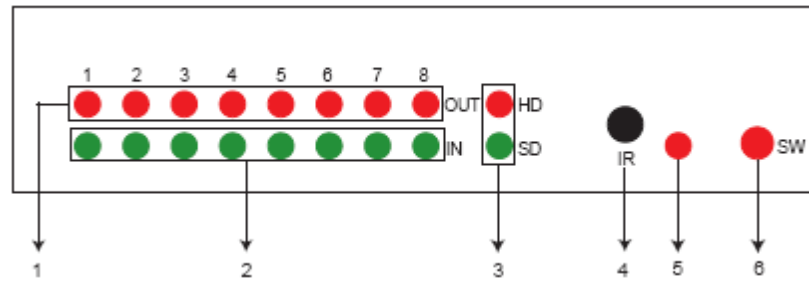
- | | |
|-------------------------|-----|
| - SW-HDSDI-8X1 | x 1 |
| - Power Adapter (+5VDC) | x 1 |
| - IR Remote Control | x 1 |
| - User's Manual | x 1 |

1.6 Before Installation

- Put the product in an even and stable location. If the product falls down or drops, it may cause an injury or malfunction.
- Don't place the product in too high temperature (over 50°C), too low temperature (under 0°C) or high humidity.
- Use the DC power adapter with correct specifications. If inappropriate power supply is used then it may cause a fire.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.

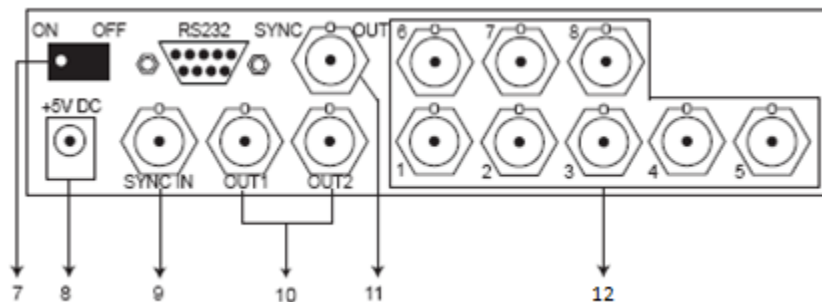
1.7 Panel Description

FRONT PANEL



1. Inputs LED	2. Input Auto Detection LED
3. Output HD/SD Detection LED	4. IR Remote
5. Power indicator LED	6. Push button for Input Channel Switch

REAR PANEL



7. Power Switch	8. 5V DC Power Jack
9. SYNC Signal Input	10. SDI Output
11. SYNC Signal Loop Out (add 75Ω terminator if nothing connected)	12. SDI Input







1.8 Installation

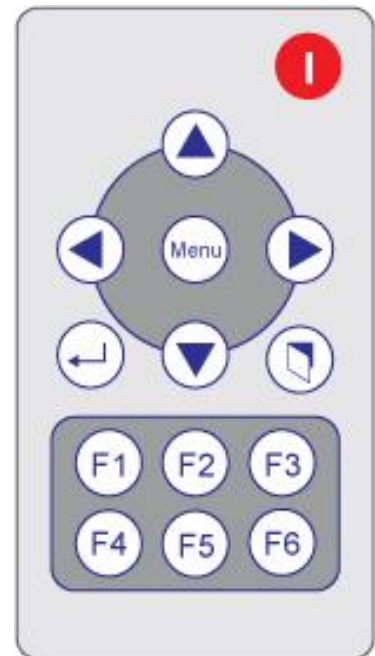
To setup Avenview SW-HDSDI-8X1 follow these steps for connecting to a device:

1. Connect SDI enable equipment's to the output of SW-HDSDI-8X1
2. Connect the SDI input sources to the inputs of SW-HDSDI-8X1
3. Plug power adapter cable into 5V DC power jack of SW-HDSDI-8X1
4. Use IR Remote, RS232 or front panel push button to switch between inputs.

1.9 Operation and IR Control

	Channel 1
	Channel 2
F1	Channel 3
F2	Channel 4
F3	Channel 5
F4	Channel 6
F5	Channel 7
F6	Channel 8

- a. Use  or  keys to select input source, and wait a few seconds for video of next channel coming out after the channel switch command is sent.



Section 2: Specifications

Item	Description
Units	SW-HDSDI-8X1
Unit Description	8 Port HD/SD-SDI Switch
SDI Standards	HD-SDI, SD-SDI
Auto HD/SD-SDI Detection	Yes
Supported Protocols	SMPTE 259M / SMPTE 292M
Video Bandwidth	Single Link: 1.485Gbps & 1.485/1.001 Gbps
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 Impedance	75Ω
Cable Equalization	HD-SDI: up to 150m (500 feet) SD-SDI: up to 300m (1000 feet)
Loop Out	Synchronized BNC Loop Out at Input and Output
Audio Support	Yes
RP-918 Pathological Patterns	Immune
Input	8 x BNC (SDI)
Output	1 x BNC (SDI)
BNC Connector	75Ω Inter-Locked Socket
Eye Pattern Characteristics	Amplitude: Within 800mV ±3% (<10%) Rise overshoot: Less than 2% (<10%) Fall overshoot: Less than 2% (<10%) Long time jitter: 0.195μ (<1.0μ) Timing jitter: 0.195μ (<1.0μ) Alignment jitter: 0.127μ (<0.2μ)
Dimensions (L x W x H)	7.4" x 4.9" x 1.7"
Power Supply	5V 4A DC
Power Consumption	10 Watt (max)
Environmental	
Operating Temperature	32° ~ 104°F (0° to 40°C)
Storage Temperature	-4° ~ 140°F (-20° ~ 60°C)
Relative Humidity	20~90% RH (no condensation)



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