

# 8 Port HD/SD-SDI Switch

## User's Guide



Models

SW-HDSDI-8X1

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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 equipments, 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.

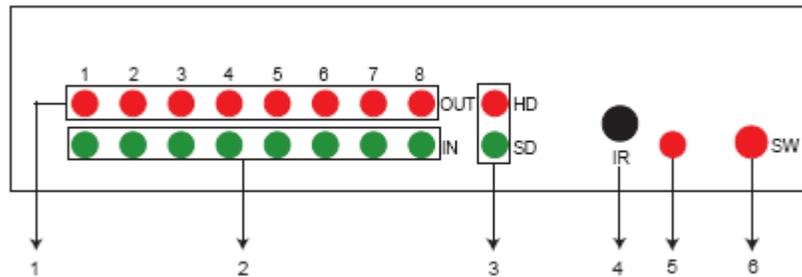


## 1.6 Before Installation

- 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.

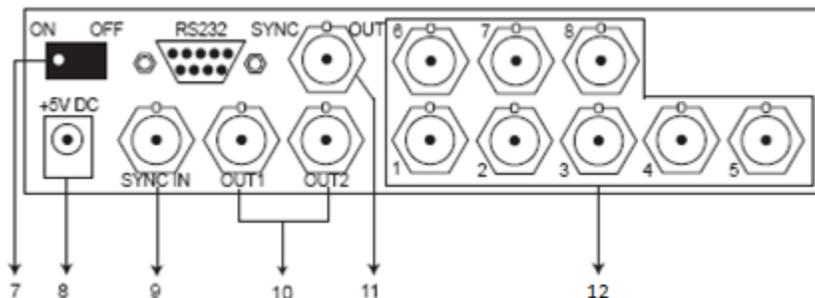
## 1.7 Panel Description

### FRONT PANEL



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

### REAR PANEL



7. Power Switch	8. 5V DC Power Jack
9. SYNC Signal Input	10. SDI Output
11. SYNC Signal Loop Out	12. SDI Input



## 1.8 Installation

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

1. Connect SDI enable equipments 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.

## Section 2: Specifications

Item	Description
<b>SDI Standards</b>	SD-SDI HD-SDI
<b>Auto HD/SD-SDI Detection</b>	Yes
<b>Supported Protocols</b>	SMPTE 259M / SMPTE 292M
<b>Video Bandwidth</b>	Single Link: 1.485Gbps & 1.485 / 1.002 Gbps
<b>Data Rates</b>	143 / 270 / 1483 / 1485 Mbps
<b>Video Support</b>	HD: 720p50/59.94/60, 1035i50/59.94/60, 1080i50/59.94/60, 1080p24/30 SD: NTSC@59.94Hz, PAL@50Hz
<b>Output Impedance</b>	75Ω
<b>Cable Equalization</b>	HD-SDI: up to 150m SD-SDI: up to 300m
<b>Loop Out</b>	Synchronized BNC loop-out at input and output
<b>Audio Support</b>	Yes
<b>Input</b>	8 x BNC (SDI)
<b>Output</b>	1 x BNC (SDI)
<b>BNC Connector</b>	75Ω inter-locked socket
<b>Eye Pattern Characteristics</b>	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)
<b>Dimensions</b>	7.4" x 4.9" x 1.7" (L x W x H)
<b>Weight</b>	890g (2lbs)
<b>Power Supply</b>	5V 4A DC
<b>Power Consumption</b>	10 Watts (Max)
<b>Operating Temperature</b>	0~40°C [32~104°F]
<b>Storage Temperature</b>	-20~60°C [-4~140°F]
<b>Relative Humidity</b>	20~90% RH [no condensation]



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