SWIT®

S-4610 SDI Audio Embedder

Ver:V1.0.0V00

USER MANUAL

SWIT Electronics Co.,LTD.

Congratulations on your purchase of this product. Please read this user manual carefully.

Features

◆ 1x 3G/HD/SD-SDI input, 2x SDI output with new embedded audio

◆ 1x Dual-channel balanced analog audio input

◆ 1x Dual-channel digital audio(AES/EBU) input

◆ Embed audio to any 2 channels of SDI first 8-ch positions

◆ Heavy duty aluminium housing and bottom screw threads for installation
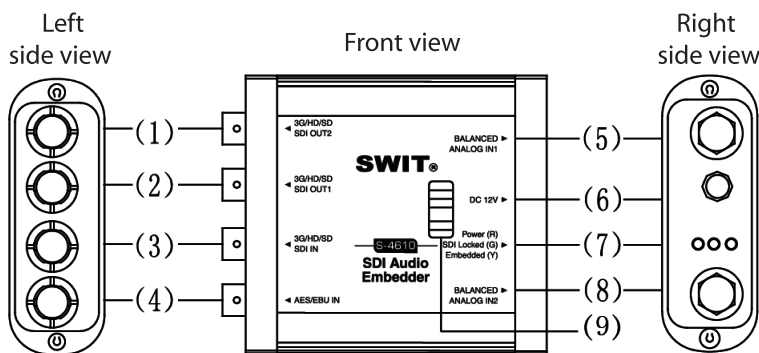
Product View

Left side view   Front view   Right side view

Photo 1

⑴ **SDI OUT2**: 3G/HD/SD-SDI output (BNC)
⑵ **SDI OUT1**: 3G/HD/SD-SDI output (BNC)
⑶ **SDI IN**: 3G/HD/SD-SDI input (BNC)
⑷ **AES/EBU IN**: Digital audio input (BNC)

⑸ **BALANCED ANALOG IN1**: Analog audio input (6.35mm socket)
⑹ **DC 12V:** 12V DC input
⑺ **LED status indicator**
Power (Red): light up when power is connected
SDI Locked (Green): light up when there is SDI input recognized
Embedder (Yellow): light up when audio is successfully embed
⑻ **BALANCED ANALOG IN2:** Analog audio input (6.35mm socket)
⑼ **DIP switch**: To select Audio channels. For details, please see "**Audio Channel Selection**"

Remark: It gives priority to embed digital audio when there is digital audio input and analog audio input at the same time.

Audio Channel Selection

Through switching the DIP switch to embed analog or digital audio to any 2 channels of SDI first 8-ch positions. DIP switch position "123" controls one embedded audio channel, DIP switch position "456" controls the other embedded audio channel.
a. For Analog audio, DIP switch position "123" controls "BALANCED ANALOG IN1" embedded audio signal; DIP switch position "456" controls "BALANCED ANALOG IN2" embedded audio signal.
b. For Digital audio, DIP switch position "123" and DIP switch position "456" will control one channel of audio input separately.

The specific operation as follows:

Audio IN CH1			Audio IN CH2		
SDI Audio Channel	Switcher 1	2 3	SDI Audio Channel	Switcher 4	5 6
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		

Note: If DIP switch position "123" and DIP switch position "456" are set to the same, It gives priority to output embedded audio from DIP switch position "123".

Installation Plate

Installation Plate	Rear View of S-4610	Installed

Screw hole 3   Screw hole 4   Screw hole 1   Screw hole 2   Screw hole 5   Screw hole 6   Match — thread 1   Match — thread 2
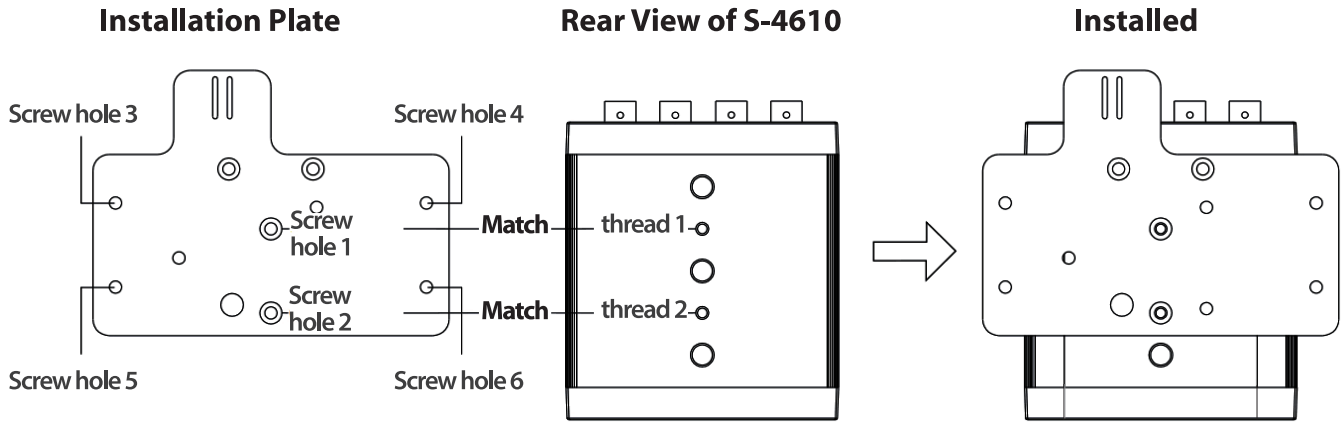
Photo 2

Match the screw holes 1&2 with the threads 1&2 of S-4610, and fix the installation plate to the S-4610 by using the supplied screws. The screw holes 3, 4, 5, 6 are used to install S-4610 to wall or racks.

Note: The installation must be fixed firmly to avoid serious damage caused by falling.

Specifications

Input	BNC ×1		3G/HD/SD SDI input×1
	BNC ×1		AES/EBU×1
	6.35mm×2		Analog audio×2
Output	BNC ×2		3G/HD/SD SDI loop through output×2
Format	SDI	SMPTE-425M	1080p （60/59.94/50）
		SMPTE-274M	1080p （30/29.97/25/24/23.98）
			1080i （60/59.94/50）
		SMPTE-RP211	1080psf （30/29.97/25/24/23.98）
		SMPTE-296M	720p （60/59.94/50）
		ITU-R BT.656	576i （50）
		SMPTE-125M	480i （59.94）
Digital Audio	Format		AES/EBU.S/PDIF.EIAJCP-1201.IEC60958
	Input level		0.2V---5Vp-p
	Sample frequency		48KHZ
	Connector		BNC
Analog Audio	Max. input level		+24dbu
	Bandwidth		20HZ----20KHZ
	Connector		6.35mm
Power Consumption	⩽3W		
Working Voltage	DC 6-18V		
Working Environment	Temperature: 0℃～+50℃, Humidity: 10%～90%		
Dimension	98.5×84.15×29 mm		
Net weight	235g		

Precautions

1. Please do not disassemble the product by yourself.
2. Keep the product away from rain or moisture.
3. Please use the provided power adapter and if you use third party power adapter, please make sure the voltage range, supplied power, and polarity of power lead are fit.