



3G-SDI to HDMI Scaler Installation Guide

Introduction

The *3G-SDI to HDMI Scaler* allows you to broadcast 3G-SDI signals from one source to two 3G-SDI and one HDMI outputs.

Key Features and Benefits

- Converts SDI signals to HDMI
- Provides two additional SDI outputs with repeater function
- Operates at 270Mb/s, 1.485Gb/s and 2.97Gb/s data rates
- Auto 3G/HD/SD-SDI detection
- Auto audio re-sample to 48KHz 2 channels, Stereo
- Supports HD formats:
 - 720p 50 & 60
 - 1080i 50 & 60
 - 1080p 24, 25, 30, 50 & 60
- Supports 525i and 625i SD D1 formats
- Metal housing and wall-mountable

Package Contents

- 3G-SDI to HDMI Scaler
- Power adapter (Output: 12V/1A)
- Installation guide

Layout

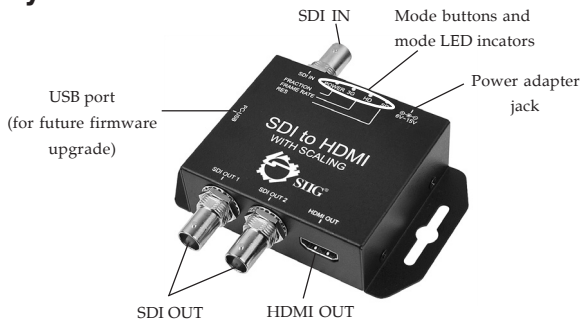


Figure 1: Top Layout

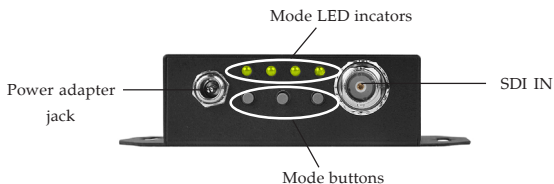


Figure 2: Rear Layout

Application

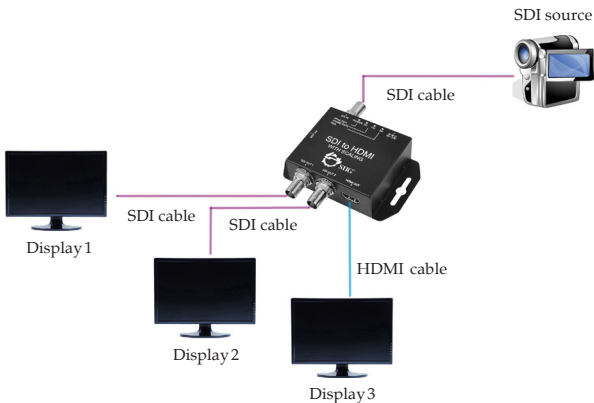


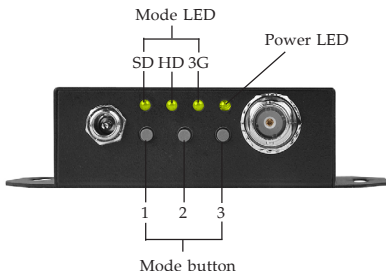
Figure 3: Application

Hardware Installation

1. Power off all devices you plan to connect to the *Scaler*, then connect the SDI source to the *Scaler*'s **SDI IN** connector by using a SDI cable (cable not included).
2. Connect your displays to the *Scaler*'s **SDI OUT** or **HDMI OUT** connectors using a SDI or HDMI cable respectively (cable not included).

3. Connect the *Scaler's* power adapter. Once powered on, the **Power LED indicator** on the rear panel will turn on.
4. Power on all connected devices. The *3G-SDI to HDMI Scaler* is now ready to use.

Mode Button / Mode LED Indicator

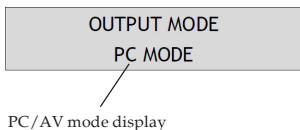


Button 1	Format mode
Button 2 (quickly click)	TV wall mode
Button 2 (press and hold)	AV/PC mode
Button 2 and 3	Firmware mode
Button 1, 2, and 3	Default setting

Figure 4: Mode buttons and Mode LED indicators

- **PC/AV Mode**

Press and hold **Button 2** for few seconds, then you can switch the *Scaler* between PC and AV mode.



PC mode: Mode format is based on VESA
AV mode: Mode format is based on CEA861

- **Format Mode**

If the *Scaler* is in PC mode, press **Button 1** to set the *Scaler* for format settings, then press **Button 1** (for higher resolution) or **Button 2** (for lower resolution) to select the format.

1920x1080 p60	1366x768 p60
1680x1050 p60	1280x1024 p60
1600x1200 p60	1280x848 p60
1440x900 p60	1024x768 p60
1400x1050 p60	800x600 p60

Figure 5

If the *Scaler* is in AV mode, press **Button 1** to set the *Scaler* for format settings, then press **Button 1, 2** and **3** to set the resolution, frame rate and fraction respectively.

Button 1	Button 2	Button 3
By Pass		
720x480	60i	59.94i
	60p	59.94p
720x576	50i	
	50p	
1280x720	60p	59.94p
	50p	
1920x1080i	60i	59.94i
	50i	
1920x1080p	60p	59.94p
	50p	
	30p	29.97p
	25p	
	24p	23.97p


 : The frame rate with background color is the default setting. Press Button 2 to change the frame rate.

Figure 6

- TV Wall Mode:** Press **Button 2** to set the *Scaler* to TV wall mode, then keep pressing **Button 2** to cycle through the different TV wall modes (2x2, 3x3, 4x4 or off). Press **Button 3** to change to a different display section. See **Figure 7**.











	TV Wall modes	Output Display
		
Turn OFF		
Divide Windows To 2x2		
Divide Windows To 3x3		
Divide Windows To 4x4		

Figure 7

- **Firmware mode:** Press and hold down button 2 and 3 simultaneously, the firmware version is displayed on the upper left corner of the monitor
- **Default settings:** Press all three buttons simultaneously, the *Scaler* will reset to the default settings

Mode LED Indicator

The **Mode LED** indicators light up during the resolution selection process. If the *Scaler* is under PC mode, see **Figure 8**.

- : LED ON
○ : LED OFF


	SD LED	HD LED	3G LED	POWER LED
800x600 p60	○	●	○	●
1024x768 p60	●	○	○	●
1280x848 p60	○	○	○	●
1280x1080 p60	●	●	●	○
1366x768 p60	○	●	●	○
1400x105 p60	●	○	●	○
1440x900 p60	○	○	●	○
1600x1200 p60	●	●	○	○
1680x1050 p60	○	●	○	○
1920x1080 p60	●	○	○	○

Figure 8

If the *Scaler* is under AV mode, see **Figure 9**.

- : LED ON
○ : LED OFF


	SD LED	HD LED	3G LED	POWER
BY PASS	●	●	●	●
720 x 480	●	○	○	○
720 x 576	○	●	○	○
1280 x 720	●	●	○	○
1920 x 1080i	○	○	●	○
1920 x 1080p	●	○	●	○

Figure 9

Once the setup is complete, the **Mode LED indicators** will display similar to **Figure 10**.

- : LED ON
○ : LED OFF

Resolution	SD LED	HD LED	3G LED
NTSC(720x4480i) / PAL(720x576i)	●	○	○
720p / 1080i / 1080 [24p,25p, 30p]	○	●	○
1080 [50p,60p]	○	○	●

Figure 10

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Technical Support and Warranty

QUESTIONS? SIIG's **Online Support** has answers! Simply visit our web site at www.siig.com and click **Support**. Our online support database is updated daily with new drivers and solutions. Answers to your questions could be just a few clicks away. You can also submit questions online and a technical support analyst will promptly respond.

SIIG offers a 3-year manufacturer warranty with this product. This warranty covers the original purchaser and guarantees the product to be free of any defects in materials or workmanship for three (3) years from the date of purchase of the product.

SIIG will, at our discretion, repair or replace (with an identical product or product having similar features and functionality) the product if defective in materials or workmanship. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Please see our web site for more warranty details.

If you encounter any problems with this product, please follow the procedures below.

A) If it is within the store's return policy period, please return the product to the store where you purchased from.

B) If your purchase has passed the store's return policy period, please follow the steps below to have the product repaired or replaced.

Step 1: Submit your RMA request.

Go to www.siig.com, click **Support**, then **REQUEST A PRODUCT REPLACEMENT** to submit a request to **SIIG RMA** or fax a request to 510-657-5962. Your RMA request will be processed, if the product is determined to be defective, an RMA number will be issued.

Step 2: After obtaining an RMA number, ship the product.

- Properly pack the product for shipping. All accessories that came with the original package must be included.
- Clearly write your RMA number on the top of the returned package. SIIG will refuse to accept any shipping package, and will not be responsible for a product returned without an RMA number posted on the outside of the shipping carton.
- You are responsible for the cost of shipping to SIIG. Ship the product to the following address:

SIIG, Inc.

6078 Stewart Avenue

Fremont, CA 94538-3152, USA

RMA #: _____

- SIIG will ship the repaired or replaced product via Ground in the U.S. and International Economy outside of the U.S. at no cost to the customer.

About SIIG, Inc.

Founded in 1985, SIIG, Inc. is a leading manufacturer of IT connectivity solutions (including Serial ATA and Ultra ATA Controllers, FireWire, USB, and legacy I/O adapters) that bridge the connection between Desktop/Notebook systems and external peripherals. SIIG continues to grow by adding A/V and Digital Signage connectivity solutions to our extensive portfolio.

SIIG products offer comprehensive user manuals, many user-friendly features, and are backed by an extensive manufacturer warranty. High quality control standards are evident by the overall ease of installation and compatibility of our products, as well as one of the lowest defective return rates in the industry. SIIG products can be found in computer retail stores, mail order catalogs, through major distributors, system integrators, and VARs in the Americas and the UK, and through e-commerce sites.

PRODUCT NAME

3G-SDI to HDMI Scaler

**FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS B
OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE**

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

THE PARTY RESPONSIBLE FOR PRODUCT COMPLIANCE

SIIG, Inc.
6078 Stewart Avenue
Fremont, CA 94538-3152, USA
Phone: 510-657-8688

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