

HDMI to 3G-SDI Scaler Installation Guide

Introduction

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

Key Features and Benefits

- Convert HDMI signals to SDI
- Provides two SDI outputs
- 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
- Supported HD formats:
 - 720p 50 & 60
 - 1080i 50 & 60
 - 1080p24, 25, 30, 50 & 60
- Supports 525i & 625i SD D1 format
- Metal housing and wall-mountable

Package Contents

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

Layout



Figure 1: Top Layout



Figure 2: Front Layout

Application

HDMI source (DVD player, video game console, computer, etc)



Figure 3: Application

Hardware Installation

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

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

Mode Button / Mode LED Indicator

Mode Button



| Button 1 | Format mode |
|--------------------|-------------------|
| Button 2 | TV wall mode |
| Button 3 | Aspect ratio mode |
| Button 2 and 3 | Firmware mode |
| Button 1, 2, and 3 | Default setting |

Figure 4: Front panel buttons and LEDs

Format Mode: Press Button 1 to set the *Scaler* to format mode, then press Button 1, 2 and 3 to set the resolution, frame rate and fraction respectively. See Figure 5.

| RES | FRAME RATE | FRACTION | |
|------------|--------------------|--|--|
| Button | Button | Button | |
| 1 | 2 | 3 | |
| By Pass | | 6 Di | |
| 720x480 | B -59.94i (BT.656) | C- 59.94i <mark>(</mark> CEA-861) | |
| 720x576 | 50i | | |
| | 60p | 59.94p | |
| | 50p | | |
| | 30p | | |
| 1280x720 | 25p | | |
| | 60i | 59.94i | |
| 1920x1080i | 50i | | |
| | 60p | 59.94p | |
| | 50p | | |
| | 30p | 29.97p | |
| | 25p | | |
| 1920x1080p | 24p | 23.98p | |

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

Figure 5

• **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 8**.



Figure 8

- **Aspect Ratio Mode**: Press **Button 3** to change between 4:3 and 16:9 aspect ratio
- **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. See **Figure 6**.

- 🛑 : LED ON
- : LED OFF

| | SD LED | HD LED | 3G LED |
|--------------|--------|--------|--------|
| BY PASS | | ۲ | • |
| 720 x 480 | | 0 | 0 |
| 720 x 576 | 0 | | 0 |
| 1280 x 720 | | | 0 |
| 1920 x 1080i | 0 | 0 | |
| 1920 x 1080p | • | 0 | • |

Figure 6

Once the setup is complete, the **Mode LED indicators** will display similar to **Figure 7**.

: LED ON

○ : LED OFF

| Resolution | SD LED | HD LED | 3G LED | HDCP LED |
|----------------------|--------|--------|--------|----------|
| NTSC / PAL | ٠ | 0 | 0 | 0 |
| 720p / 1080i / | 0 | | 0 | 0 |
| 1080 [24p, 25p, 30p] | | - | 0 | 0 |
| 1080 [50p,60p] | 0 | 0 | | 0 |
| HDCP Content | 0 | 0 | 0 | ٠ |



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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 <u>SIIG RMA</u> 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:

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SIIG, Inc.
6078 Stewart Avenue
Fremont, CA 94538-3152, USA
RMA #:
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 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/ Oadapters) 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.

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PRODUCT NAME

HDMI to 3G-SDI 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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