

## DA-HDTV-SDI FRONT VIEW



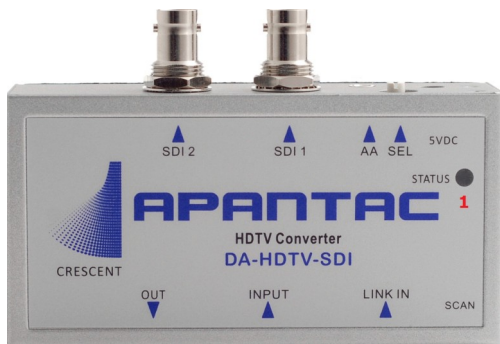
1. HDMI Loop out
2. HDMI input
3. RJ45 Input (compatible with Tahoma Multiviewer)
4. SCAN - will scan between the 2 inputs to look for an active signal

## DA-HDTV-SDI REAR VIEW



1. Power Supply Fastener
2. 5V 3.2A Power Input
3. Function Selection Rotary Switch
4. Stereo Phone Jack
5. SDI out 1
6. SDI out 2 (terminator should be applied when not in use)

## DA-HDTV-SDI TOP VIEW



1. Status Indicator - Turns Green when powered on, turns amber when HDMI signal is locked on

## Troubleshooting Q & A

### There is no image on my SDI monitor.

If your source is 1080p, your monitor may only support 1080i, but not 1080p. Turn the rotary dial to position 1 to change your 1080p source to 1080i.

### There is no image on my SDI monitor.

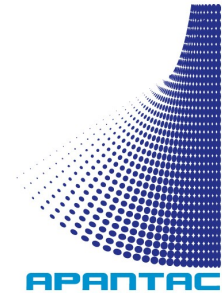
Check the color of the status indicator. If the indicator is green, it means there is power but no input source is detected, this may be related to the content protection on the HDMI source. If this is the case, please call Apantac for technical support at (503) 968-3000.

### I have both the RJ-45 and HDMI input plugged in, but there is no image on my SDI monitor.

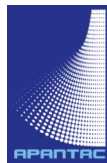
Push the scan button once, it will scan for the active source. If both RJ45 and HDMI inputs have active sources, the RJ45 has priority.

### The status indicator LED is not lit.

Check for a possible loose power adapter connection. Use the fastener that comes with the accessories kit to ensure a secure connection.



## DA-HDTV-SDI USER MANUAL HDMI/DVI to SDI CONVERTER w/o SCALER



© 2012 APANTAC LLC, All rights reserved  
7556 SW BRIDGEPORT ROAD  
PORTLAND, OR 97224, USA  
PHONE +1 503 968 3000  
FAX +1 503 389 7921

The content of this document is provided in connection with Apantac LLC ("Apantac") products. Apantac makes no representation or warranties with respect to the accuracy or completeness of the contents of this publication and reserves the right to make changes to specifications and product descriptions at any time without notice.

## Package Contents

- DA-HDTV-SDI
- User Manual
- Power Adapter (5V 3.2A)
- Stereo Phone Jack (1 x 2)
- 75 Ω Terminator
- Power Adapter Fastener
- Magnetic Mounting Plate
- Mounting Screws

## Accessories



Power Adapter



Stereo Phone Jack (1 x 2)



Power Adapter  
Fastener



75 Ω Terminator



Mounting Screws

## Specifications

| MODEL                         | DA-HDTV-SDI                                              |
|-------------------------------|----------------------------------------------------------|
| DESCRIPTION                   | HDMI to SDI Converter with Looping Input and Dual Output |
| INPUT                         | 1 x HDMI, 1 x RJ45 (HDMI)                                |
| OUTPUT                        | 2 x SDI, 1 Stereo Audio Phone Jack                       |
| ADJUSTMENTS                   | Rotary dial for interlacing and internal color bars      |
| MAXIMUM RESOLUTION / DISTANCE | HD-SDI up to 140 m, 3G up to 120 m                       |
| MOUNT                         | Magnetic                                                 |
| POWER                         | 5V 3.2A                                                  |
| DIMENSION                     | 62 W x 112 D x 35 H (mm)                                 |

## Installation

1. Connect the power adapter and if needed, lock the 5V DC power adapter with the supplied accessories (located in the small, transparent plastic bag).
2. Connect a HDMI signal to one or the other input of the DA-HDTV-SDI.
3. Connect the SDI output to the receiving device via a coax cable.
4. Use the internal test signals to ensure proper connectivity between the DA-HDTV-SDI and the receiving device. Select the test signal video format that will be in use when converting HDMI to SDI to validate that the receiving device accepts it. (Keep in mind that if you feed a 1080p HDMI signal, the SDI output will be, by default, a 3G SDI signal.)

Set the rotary switch to position 0 (default) or 1 if you feed a 1080p HDMI signal and want to get a 1080i SDI output signal to enable the conversion. The table below shows the supported formats.

## Supported Formats

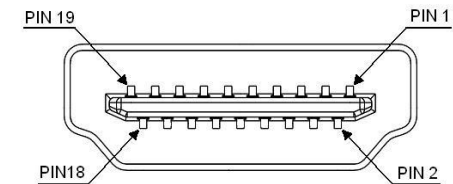
| FORMAT             | HDMI INPUT | SDI OUTPUT  |
|--------------------|------------|-------------|
| 1920x1080p 60Hz    | 1080p60    | 1080p60     |
|                    |            | 1080i60*    |
| 1920x1080p 59.94Hz | 1080p59.94 | 1080p59.94  |
|                    |            | 1080i59.94* |
| 1920x1080p 50Hz    | 1080p50    | 1080p50     |
|                    |            | 1080i50*    |
| 1920x1080i 60Hz    | 1080i60    | 1080i60     |
| 1920x1080i 59.94Hz | 1080i59.94 | 1080i59.94  |
| 1920x1080i 50Hz    | 1080i50    | 1080i50     |
| 1280x720p 60Hz     | 720p60     | 720p60      |
| 1280x720p 59.94Hz  | 720p59.94  | 720p59.94   |
| 1280x720p 50Hz     | 720p50     | 720p50      |
| 1440x480i 59.94Hz  | 480i59.94  | 480i59.94   |
| 1440x576i 50Hz     | 576i50     | 576i50      |

**\*When rotary switch is set to position 1**

## Features

- Supports HDMI 1.2 and 1.3a
- HDCP Compliant
- Can convert 1080p input to 1080i output
- Built-in Color Bar generator
- Tahoma multiviewer compatible RJ45 input
- HDMI loop out
- 2 HD-SDI output with 4 channels of embedded audio
- Analog Stereo output

## HDMI Pinout



| Pin # | Signal             | Pin # | Signal            |
|-------|--------------------|-------|-------------------|
| 1     | TMDS Data 2+       | 11    | TMDS Clock Shield |
| 2     | TMDS Data 2 Shield | 12    | TMDS Clock -      |
| 3     | TMDS Data 2-       | 13    | CEC               |
| 4     | TMDS Data 1+       | 14    | Reserved          |
|       |                    |       | (N.C. on device)  |
| 5     | TMDS Data 1 Shield | 15    | SCL               |
| 6     | TMDS Data 1-       | 16    | SDA               |
| 7     | TMDS Data 0+       | 17    | DDC/CEC Ground    |
| 8     | TMDS Data 0 Shield | 18    | +5 Power          |
| 9     | TMDS Data 0-       | 19    | Hot Plug Detect   |
| 10    | TMDS Clock+        |       |                   |