



# HD/SD SDI to Analogue converter



## HD-800A

User Guide  
 V1.001

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The **HD-800A** is a compact HD/SD dual rate distribution converter, it's fully automatic and supports SMPTE 292M and 259M signals and cross convert HD signal from 1080P to 720P and SD signal 525i/625i. There is the ideal solution for viewing HD or SD signal on virtually any monitor or scope, supporting various formats of mode selection.

## Features:

- High quality cross conversation and wide range frame rate.
- Converts component serial digital signal to analog composite
- Active loop through for SDI signal with re-clocking
- Four user selectable analogue outputs :  
     Composite , component (YPbPr & R/G/B) , and Y/C outputs
- HD SDI/SD SDI auto detection.
- Integrated Audio Embedded for up to 8 channels of 48kHz audio

## Specifications:

|                       |   |
|-----------------------|---|
| Serial Digital Input  | SD-SDI (SMPTE-259M), HD-SDI (SMPTE-292M)  |
| Input Rate            | SD/ 270 Mbit, HD/ 1.485 Gbit  |
| Serial Digital Output | BNC active loop through <input type="checkbox"/>  |
| Analog Output         | User Configurable Analog Output :<br>Composite , component (YPbPr & R/G/B) , Y/C  |
| Formats               | HD: 1080P 30Hz/25Hz/24Hz, 1080P 24psf,<br>1080i 60Hz/59.94Hz/50Hz,<br>1035i 60Hz/59.94Hz/50Hz.<br>720P 60Hz/59.94Hz/50Hz<br>SD: 525i 60Hz/59.94Hz, 625i/50Hz. |
| Audio Output          | 4xAES 、 L/R   |
| Power consumption     | 12 V DC/3.5 Watt  |
| Dimensions            | 167.6 X 85.4 X 35 mm  |
| Weight                | 0.6 kg  |

### Output Switch Setting:

#### INPUT:SD-SDI SIGNAL

|     |     | Output                 |
|-----|-----|------------------------|
| SW1 |     | Reserved               |
| SW2 | ON  | Color Bar ON           |
| SW2 | OFF | Color Bar OFF          |
| SW3 | OFF | Composite<br>Y / C     |
| SW4 | OFF |                        |
| SW3 | OFF | Y/Pb/Pr                |
| SW4 | ON  |                        |
| SW3 | ON  | Composite<br>Y / C     |
| SW4 | OFF |                        |
| SW3 | ON  | R.G.B<br>sync on green |
| SW4 | ON  |                        |

#### INPUT:HD-SDI SIGNAL

|     |     | Output                 |
|-----|-----|------------------------|
| SW1 |     | Reserved               |
| SW2 | ON  | Pattern ON             |
| SW2 | OFF | Pattern OFF            |
| SW3 | OFF | Y/Pb/Pr                |
| SW4 | OFF |                        |
| SW3 | OFF | Y/Pb/Pr                |
| SW4 | ON  |                        |
| SW3 | ON  | Y/Pb/Pr                |
| SW4 | OFF |                        |
| SW3 | ON  | R.G.B<br>sync on green |
| SW4 | ON  |                        |

### Audio Output Pin Definition:

|       |             |        |             |
|-------|-------------|--------|-------------|
| Pin 1 | AES 1 OUT   | Pin 9  | GND         |
| Pin 2 | AES 2 OUT   | Pin 10 | GND         |
| Pin 3 | AES 3 OUT   | Pin 11 | NC          |
| Pin 4 | AES 4 OUT   | Pin 12 | NC          |
| Pin 5 | Audio L OUT | Pin 13 | NC          |
| Pin 6 | GND         | Pin 14 | NC          |
| Pin 7 | GND         | Pin 15 | Audio R OUT |
| Pin 8 | GND         |        |             |

### **Notice:**

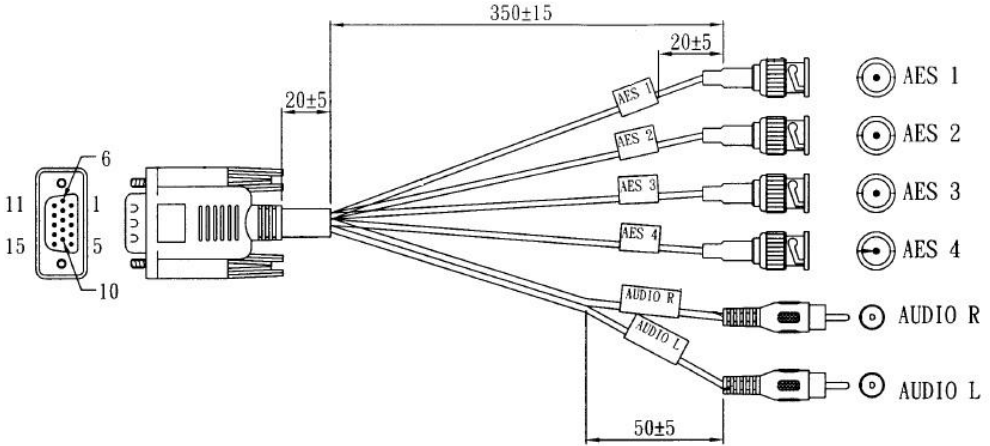
Power LED indicator:

This indicator will become green, once SDI input has been detected. If input signal is not detected, this LED indicator will flicker.

## Optional accessory:

Audio Cable \* 1

## Drawing:



**Unit: mm**

## Specifications:

| Input (connect to Converter) | Output  |         |
|------------------------------|---------|---------|
| D-Sub (15 pin) * 1           | AES1    | BNC * 1 |
|                              | AES2    | BNC * 1 |
|                              | ASE3    | BNC * 1 |
|                              | ASE4    | BNC * 1 |
|                              | AUDIO L | RCA * 1 |
|                              | AUDIO R | RCA * 1 |

