



**MIO ENC-AUD Video DA With Analog Audio Output**  
**User Manual V1.0**



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## Revision Status

Rev Date	Description
November 11, 2010	Initial release of the MIO ENC-AUD User Manual Firmware V1.0

## MIO ENC-AUD

### I Description

Based on Mini BOX platform, MIO ENC-AUD is a small converter which can convert SD-SDI to analog composite video signal, analog component video signal, or S-video signal and supports the input format of 480i 60 and 576i 50. It can extract one analog audio stereo signal from a single serial digital signal. The de-embedded audio channel can be selected through DIP Switch.

It supplies the loop function, which ensures the extension of more devices. Users can choose analog video output mode by dial switches. The LED lights on the Mini box indicate the status of input signal and power, so as to let the user know the information immediately.

Be known for compact function, the converter is widely used in variety of environments, like TV program post production, studio, broadcast, etc.

## II Interfaces on the panel

### 2.1 Overview



**Load Default:** Insert a thin thing through the hole and press the button to restore the default settings. The default parameters: auto gain, CVBS output, G1 CH1&CH2, PAL system.

**SET:** Insert a thin thing through the hole and press the button to make the settings of DIP Switch taking effect.

### 2.2 Left panel



**DC IN:** Power supply with 12V 1A.

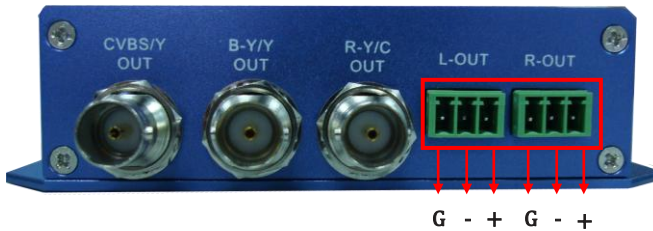
**PWR:** Power indicator, the indicator shows green as the power is working normally.

**IN:** Signal indicator, the indicator shows green as the video is locked with no errors.

**SDI-IN:** BNC interface, digital video signal input (support SDI with embedded audio).

**SDI-LOOP:** BNC interface, it also supports bypass function.

### 2.3 Right panel



**Analog Video OUT:** BNC interface, outputs analog video signal and supports three kinds of output: CVBS/YUV/YC.

- i. When analog composite signal is selected, the first interface is CVBS output (from left), others are invalid;
- ii. When analog component signal is selected, the output interfaces from left are Y signal, B-Y signal, and R-Y signal;
- iii. When S-video signal is selected, the output interfaces from left are: none, Y, and C signal.

**ANA AUDIO OUT:** 3-pin interface, one stereo analog audio signal output. Please make sure audio is connected correctly in terms of positive and negative.

### 2.4 Front panel



**MODE SET:** DIP dial switch; Users can set the DIP to get more functions according to their

actual demand. Please refer to the specific meanings switch table :

DIP switch :		1	2	3	4	5	6	7	8	9	0	
1	Auto gain	M/A	/	/	/	OFF	OFF	OFF	OFF	ON	Adjustment	
2	Analog video output	CVBS output	M/A	/	/	/	OFF	OFF	ON	OFF	ON	Adjustment
3		YUV output	M/A	/	/	/	OFF	OFF	ON	ON	OFF	Adjustment
4		YC output	M/A	/	/	/	OFF	OFF	ON	ON	ON	Adjustment
5	Analog audio output	G1 CH1&2	M/A	/	/	/	ON	ON	OFF	OFF	OFF	Adjustment
		G1 CH3&4	M/A	/	/	/	ON	ON	OFF	OFF	ON	Adjustment
		G2 CH1&2	M/A	/	/	/	ON	ON	OFF	ON	OFF	Adjustment
		G2 CH3&4	M/A	/	/	/	ON	ON	OFF	ON	ON	Adjustment
		G3 CH1&2	M/A	/	/	/	ON	ON	ON	OFF	OFF	Adjustment
		G3 CH3&4	M/A	/	/	/	ON	ON	ON	OFF	ON	Adjustment
		G4 CH1&2	M/A	/	/	/	ON	ON	ON	ON	OFF	Adjustment
		G4 CH3&4	M/A	/	/	/	ON	ON	ON	ON	ON	Adjustment
6	Set PAL system	M/A	/	/	/	ON	OFF	OFF	OFF	ON	Adjustment	
7	Set NTSC system	M/A	/	/	/	ON	OFF	OFF	ON	OFF	Adjustment	

Remarks: Power switch ON= DOWN OFF =UP

DIP indicates by 10 figures :

1) The NO. 1 indicates manual or automatic configuration. Place it at **ON**, the device is under

manual status, it can configure the function by setting the DIP switch; Place it at **OFF**, the equipment is under auto status, the function is planned to be set by the computer.

- 2) NO. 0 (10) determines whether the device under adjustment status. Put it at **ON**, it indicates the device under adjustment status, users can adjust the other switches to achieve the functions in the list; Put it at **OFF**, the device is under working status, the DIP switch is invalid.
- 3) NO.5~9, through the different settings to achieve specific functions, for example: set NO.5-9 as: **OFF OFF OFF OFF ON**, it means the gain of analog video signal can be adjusted, then press "SET" button (On the right corner of cover) to make adjustment into effect.

Note:

1. When user sets the DIP switch, only if the NO. 1 and NO.10 are at ON, can the DIP switch takes effect. Others (No.2-4) are reserved without any use in this product.
2. After adjust parameters manually, please make sure all switches are at OFF to under working condition.



### III Technical specification

**Digital video input:**

Input interface: 1\*SDI, BNC connection  
Impedance: 75Ω  
Format: SMPTE 259M-C; 270Mb/s

**Analog video Output:**

Output interface: 3\*BNC connection (Can be set as CVBS/YUV /YC output mode)  
Impedance: 75Ω

**Digital video output:**

Output interface: 1\*SDI-LOOP, BNC connection  
Impedance: 75Ω  
Format: SMPTE 259M-C; 270Mb/s  
Eye pattern: 800mV±10%  
Rise time: 750~1500PS (20%-80%)  
Fall time: 750~1500PS (20%-80%)  
The difference between rise and fall: ≤500PS  
Jitter: <0.2UI

**Analog audio output:**

Output interface: 2\*3pin (Balanced)  
Impedance: 600Ω

**Status indicator:**

Input signal status indicator  
Power indicator

(Indicate by shining or extinguishing of the green LED)

**Power consumption:**

Power: 12VDC 1 A

Dimension: 123mm\*92mm\*29mm

## IV Contact Us

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