



MIO DEMUX-HDSDI 3G/HD/SD Signal & Analog Audio De-embedder

User manual V1.0



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Revision Status

Rev Date	Description
October 27, 2010	Initial release of the MIO DEMUX-HDSDI User Manual Firmware V1.0

MIO DEMUX-HDSDI

I Description

MIO DEMUX-HDSDI is a kind of de-embedder based on Mini-Box chassis. It can extract one analog audio stereo signal from a single serial digital signal. It supports SD-SDI, 1.5 Gbps HD-SDI and 3.0 Gbps HD-SDI for inputs and outputs.

MIO DEMUX-HDSDI supplies real-time input signal status indicator and power indicator which make it convenient to monitor. The de-embedded audio channel can be selected though DIP Switch.

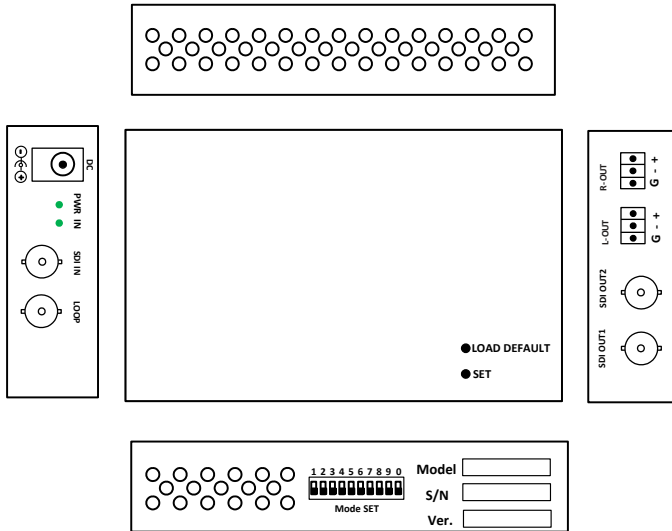
MIO DEMUX-HDSDI is easy to install, and can be widely used in broadcasting system, studios and other professional audio fields.

II Features

- ✧ one analog audio stereo signal extracted from a single serial digital signal
- ✧ Inputs and outputs for SD-SDI, 1.5Gb/s HD-SDI and 3.0Gb/s HD-SDI
- ✧ Support self-definition de-embedded audio channel via DIP Switch
- ✧ All audio interfaces adopt 3-PIN connector, balanced output
- ✧ Supply real-time input signal status indicator and power indicator
- ✧ Support bypass function with power on

III MIO DEMUX-HDSDI interface display

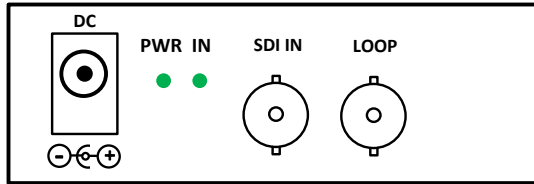
3.1 Overview



Load Default: Insert a thin thing though the hole and press the button to restore the default settings. The default de-embedded audio channels are G1 CH1 & CH2 of input signal.

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

3.2 Left panel



DC IN: 12V 1A

PWR: Power indicator, when the power works normally, the indicator shows green.

IN: Input signal indicator, when the input signal is correct, the indicator shows green.

SDI IN: BNC interface, digital signal input with embedded audio, support the SD-SDI, HD-SDI, and 3G-SDI.

SD: 525i 60, 625i 50

HD: 720p 50Hz/60Hz

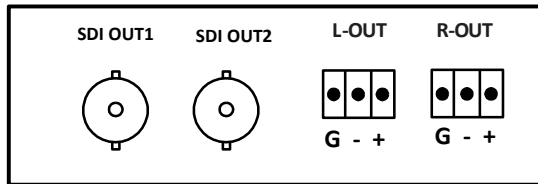
1080i 50Hz/60Hz

1080p 24Hz/25Hz/30Hz

1080p 50 Hz/60 Hz

SDI LOOP: BNC interface, support bypass SDI input with power on.

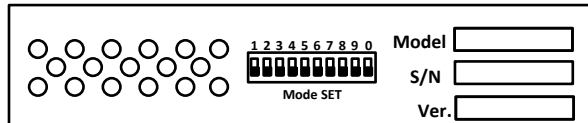
3.3 Right panel



SDI OUT1 & OUT2: BNC interface, two serial digital signal outputs, the same as input signal.

L-OUT & R-OUT: 3pin interface, 1 analog audio stereo signal output.

3.4 Front panel



MODE SET: DIP Switch, users can set DIP position to achieve more functions, the DIP specific meanings as following:

DIP Switch		1	2	3	4	5	6	7	8	9	10
Select de-embedded audio channel	G1 CH1&CH2	M/A	/	/	/	ON	ON	OFF	OFF	OFF	Adjust
	G1 CH3&CH4	M/A	/	/	/	ON	ON	OFF	OFF	ON	Adjust
	G2 CH1&CH2	M/A	/	/	/	ON	ON	OFF	ON	OFF	Adjust
	G2 CH3&CH4	M/A	/	/	/	ON	ON	OFF	ON	ON	Adjust
	G3 CH1&CH2	M/A	/	/	/	ON	ON	ON	OFF	OFF	Adjust
	G3 CH3&CH4	M/A	/	/	/	ON	ON	ON	OFF	ON	Adjust
	G4 CH1&CH2	M/A	/	/	/	ON	ON	ON	ON	OFF	Adjust
	G4 CH3&CH4	M/A	/	/	/	ON	ON	ON	ON	ON	Adjust

Note: Power switch UP=OFF DOWN=ON

DIP has 10 figures from “1” to “10”:

- 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. 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 “**ON ON OFF OFF OFF**”, it means the analog audio stereo signal (L-OUT & R-OUT) is extracted from G1 CH1 & CH2 of input signals separately, then press “SET” button (On the right corner of cover) to make adjustment into effect.

Note: 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.

After adjust parameters manually, please make sure all switches are at **OFF** to under working condition.

IV Technical specification

Digital video input:

Input interface: 1*HD/SD-SDI, BNC connection
Impedance: 75Ω
Format: SMPTE-259M-C; 270Mb/s
SMPTE-292M; 1.485Gps
SMPTE-425; 2.970Gps

Analog audio Output:

Output interface: 2*3pin
Impedance: 600Ω

Digital video output:

Output interface: 2*HD/SD-SDI, BNC connection
1*HD/SD-SDI LOOP, BNC connection
Impedance: 75Ω
Format: SD: 525i 60, 625i 50
HD: 720p 50Hz/60Hz
1080i 50Hz/60Hz
1080p 24Hz/25Hz/30Hz
1080p 50 Hz/60 Hz
SMPTE 259M-C; 270Mb/s
SMPTE-292M; 1.485Gps
SMPTE-425; 2.970Gps
Level: 800mV±10%
Rise time/Fall time: ≤270PS (20%-80%) (HD)
750~1500PS (20%-80%) (SD)

Jitter: <0.2UI (100 kHz)

Status indicator:

Input signal status indicator

Power indicator

(Indicate by shining or extinguishing of the green LED)

Power consumption:

Power: 12VDC 1.5A

Dimension: 123mm*92mm*29mm

V Contact

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