SD/HD/3G-SDI to HDMI Conversion Box

AVLINK™

SH-01W

3SH-01W

USER MANUAL
SH-01W/3SH-01W

V1.0

Package Contents-
- 1 SH-01W or 3SH-01W Unit
- 1 User manual
- 1 Power adapter DC 12V
- 2 Screws
- 4 foot pads

Any thing missed, please contact with your vendor.

Introduction

The SH-01W/3SH-01W Component SD-SDI、HD-SDI or 3G-SDI (3SH-01W only) to HDMI1.3 of conversion box.

Features

- Supported SD /HD /3G-SDI(3SH-01W only) standard formats.
- Support Full HDMI including 10-bit video and 8. channels of embedded audio.
- Equalized Looping SD/HD/3G-SDI output.
- Additional 2 Channel RCA jack audio output (to selection channel output).
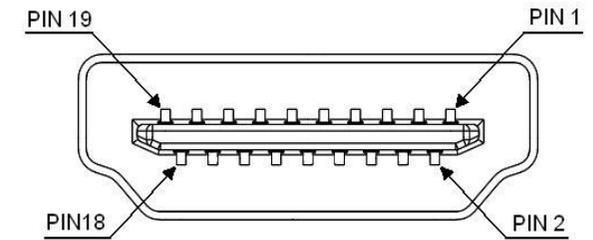- AUTO SD/HD/3G-SDI input detection.
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Specifications

Input Connector	1 x BNC (Female)
Output Connector	1x BNC (Female) 1x HDMI (Female) 1x RCA　(Female)
Input SDI support	525i@59.94 625i@50 720p@50/59.94/60 1080i@50/59.94/60 1080p@23.98/24/25/29.97/30 1080p@50/59.94/60 (only 3SH-01W)
Output HDMI support	Standard HDMI
RCA audio support	48kHz
SDI Cable Distance (Single end)	100m (Max.) for input port
	10m for output port
HDMI Cable Distance (Single end)	10 m (Max.)
Input Signal Type	Standard SD/HD/3G-SDI Signal
Output Signal Type	Standard HDMI Signal
Power Adapter (Min.)	DC 12V
Housing	Metal
Weight	333g
Dimensions (LxWxH)	150x92x25mm

Note:
Different cable qualify might effect upon the maximum resolution and cable distance.

Technical Specifications Output Signal

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+		

FRONT VIEW

1. "HD-SDI In" Port
2. "HD-SDI Out" Port
3. Link LED
4. Control DIP Switch

REAR VIEW

1. Input Power Jack
2. RCA audio output.
3. "HDMI Out" Port

Installation

1. Connect the SH-01W or 3SH-01W video input BNC connector with SDI cable from different audio/video equipment.
2. Connect the HDMI Female extension cable between the monitor and the "HDMI Out" port of SH-01W or 3SH-01W.
3. Connect the power cord and turn on the SH-01W or 3SH-01W.
4. Turn on the SDI video source device.

Support Video Mode

Analog	Resolution	Frequency(Hz)
525i(NTSC)	1440x480	59.94
625i(PAL)	1440x576	50
720p	1280x720	50/59.94/60
1080i	1920x1080	50/59.94/60
1080p	1920x1080	23.98/24/25/29.97/30
1080p	1920x1080	50/59.94/60 (only 3SH-01W)

DIP Switch Settings

VIDEO MODE

1	OFF	Set the HDMI out put **RGB 4:4:4** format	ON	Set the HDMI out put **Ycbcr 4:2:2** format
2	OFF	**HDMI1.3** OUT	ON	**DVI 1.0** OUT
3	OFF	Set the HDMI output **10-bit video** data. (Only valid when DIP 2 is "HDMI 1.3 OUT")	ON	Set the HDMI output **8-bit video** data.

AUDIO MODE

4	OFF	Mute **HDMI audio** output	ON	Enable **HDMI audio** output
5	OFF *	Set the HDMI output **audio with 8 channel**.	ON **	Set the HDMI output **audio with 2 channel.**

RCA AUDIO CHN SELECT f
(RCA audio output selection from SDI audio channel.)

6, 7, 8.	OFF,OFF,OFF	Group1, channel 1, 2
	OFF,OFF,ON	Group1, channel 3, 4
	OFF,ON ,OFF	Group2, channel 1, 2
	OFF,ON ,ON	Group2, channel 3, 4
	ON ,OFF,OFF	Group3, channel 1, 2
	ON ,OFF,ON	Group3, channel 3, 4
	ON ,ON ,OFF	Group4, channel 1, 2
	ON ,ON ,ON	Group4, channel 3, 4

*Note 1.
When HDMI audio selected to 8 channel (DIP 5 is OFF), HDMI audio source is decided by DIP 6:

   - When DIP 6 OFF, HDMI audio use SDI's Group1 and 2 for its 8 channel audio source.

   - When DIP 6 ON, HDMI audio use SDI's Group3 and 4 for its 8 channel audio source.

**Note 2.
When HDMI audio selected to 2 channel (DIP 4 is ON), the HDMI audio source is decided by DIP 6,7,8 as the RCA audio output.

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