SCST

Converter Series

User Manual

Model : AD001HD4 HDCVI/HDTVI/AHD/CVBS to HDMI/VGA/Composite Video/loop out Converter



Introduction

AD001HD4 is a multifunctional converter that can turn HD-TVI/AHD/HDCVI/CVBS to HDMI, VGA, and CVBS. The built-in loop out port can use as a second input port for camera video or as a CVBS output port for DVR/CVBS monitor. You can also show the video source on HDMI, VGA, CVBS display at the same time. AD001HD4 is an easy-to-use device that supports OSD (On Screen Display) menu to show the current setting status on the monitor and supports the PiP function, which allows you to monitor dual videos on one display.

Features

- Converts HD-TVI, AHD, HDCVI, NTSC/PAL, 960H to HDMI, VGA, and composite video.
- Resolution up to 1080p@25/30Hz for input, 1080p for HDMI & VGA.
- Built-in loop out for an extra analog video input or a HD-TVI, AHD, HDCVI, CVBS output.
- HDMI, VGA, CVBS output simultaneously.
- Built-in PIP, display two input video.
- Built-in underscan adjustment for composite output, allowing video edges fit well.
- Built-in OSD menu to display input/output settings.

Installation View

Loop Out Mode



Enable Loop Out: Connect a DVR



AD001HD4 Support Video format manual select function :

Step 1. Remove video input and set all DIP switch off.

Step 2. Press push left or right button to switch AHD or CVI format.

CVBS Output Mode



* Enable HDMI, VGA, CVBS outputs: display 3 videos simultaneously.

2 Camera In Mode



* Enable two camera inputs and VGA, HDMI outputs: HDMI, VGA as a switcher.

Panel View



Interface	Function
DC 12V	To connect a DC 12V power adapter
SETTING	To configure modes
HDMI OUT	To connect an HDMI display
VGA OUT	To connect a VGA display
2 IN/OUT	To connect a DVR, CVBS display or a second video source
1 IN	To connect a video source

LED Indication

LED Name	LED Color	Function	
Р	Green ON/OFF	Power ON/OFF	
S	Blue ON/OFF	Input 1 linked/ unlinked	
Н	Red ON/OFF	HDMI output linked/ unlinked	
L	Green ON/OFF	Loop Out mode enabled/ disabled	
S	Blue ON/OFF	2 Camera mode enabled/ disabled	
С	Red ON/OFF	CVBS Out mode enabled/ disabled	

DIP Switch Settings and Button Functions Quick Reference

Output Mode	DIP Switch				Button Function		
	1	2	3	4	Left	Right	Left and Right
Loop Output	Off	Off	Off	Off	Decrease output resolution	Increase output resolution	
CVBS Output	On	Off	Off	Off	Decrease CVBS underscan	Increase CVBS underscan	Switch CVBS output 4:3/16:9
Dual Input	Off	On	Off	Off	Display input 1	Display input 2	Switch 4:3/16:9 (CVBS input only)
PIP Output	Off	On	On	Off	Adjust PIP positioning counterclockwise	Adjust PIP positioning clockwise	Switch PIP main source
PIP Output	Off	On	On	On	Decrease PIP sizing	Increase PIP sizing	N/A

After setting the above DIP switch function, AD001HD4 has to reboot to take effect.

DIP Switch Settings and Button Function Detail

DIP Switch 1

LOOPOUT / AHD and HDCVI /CVBS OUT Selection



DIP Switch 1 ↑ (LOOPOUT)/AHD and HDCVI selection 2 IN/OUT connector setting as LOOPOUT mode



Button for HDMI/VGA resolution switching, press ◀ button to decrease the resolution, Press ► button to increase output resolution

Resolution for switch sequence will be follow as below: 480p → 576p → 720p@60 → 720p@50 → 1080i@60 → 1080i@50 → 1080p@60 →1080p@50

First, connect video to input 1 to show OSD then remove, it will show AHD or CVI at Loopout column, you can switch the signal format by button ◀ or ►





Button for underscan adjustment, press ◀ decrease CVBS OUT underscan, press ► enlarge CVBS OUT underscan

CVBS underscan adjustment is to avoid overscan situation on CRT screen (Overscan is the situation in which not all of a televised image is present on a viewing screen) which cause picture enlarge and could not see the edge of screen. The reduce screen adjustment range could be from minimum 0% up to 20% based on each time 2% reduced.

When press ◀ ▶ two buttons at same time to switch CVBS output mode as 16:9 or 4:3 When HDMI/VGA output resolution setting on 480p, 720@60, 1080i@60, 1080p@60, CVBS output is NTSC When HDMI/VGA output resolution setting on 576p, 720p@50,1080i@50, 1080p@50, CVBS output is PAL

DIP Switch 2

INPUT / OUTPUT Mode Selection



DIP Switch 2 ↑ (Output Mode)

2 IN/OUT connector setting as output mode, 2 IN/OUT connector function follow by DIP Switch 1 selection.



DIP Switch 2↓(Input Mode)

2 IN/OUT connector setting as input mode, 2 IN/OUT connector function as input 2, DIP Switch 1 setting will be ignored.

Button as input selection, press ◀ to display Input 1 picture, press ► to display input 2 picture, the current input display will be add [*] symbol marked.

To press the **I** two buttons together could switch the aspect ratio when the source is NTSC or PAL; the switching aspect ratio is 16:9 or 4:3 and affects HDMI and VGA output only, please follow the source to make adjustment. If the input is 960H video format, then make the aspect ratio setting at 16:9. For AHD input aspect ratio is fixed at 16:9, this setting is not affected.

DIP Switch 3

PIP Mode



DIP Switch 3 ↓ (PIP Mode)

This function only activated on DIP Switch 2↓



DIP Switch 4

PIP Dimension Setting



DIP Switch 4 ↓ (Adjust PIP Dimension)

This function only activated on <u>DIP Switch 2</u> and <u>DIP Switch 3</u> both at ↓ position.



Button as PIP sub-screen dimension setting, press ◀ to decrease PIP sub-screen dimension, press ► button to enlarge PIP sub-screen dimension.

OSD versions show up function

Firmware version will be shown on OSD after input/output resolution information



Restore Factory Default

Hold and press◀ button, then power on. After 5 seconds to release◀ button.

Caution

- 1. Before switching HDMI/VGA monitor, please make sure your monitor supported resolution. If the monitor not supports the resolution, then there will be no output.
- 2. If the PIP sub-screen from SD source, then the sub-screen picture will comes black edge.
- 3. This product HDCVI input and HDCVI loop out do not support audio and data transmission.
- 4. When HDTVI,AHD or HDCVI input mode selection error, the picture will become black and white. Please have AD001HD4 reboot.

Specifications

ITEM NO.	AD001HD4			
Support				
Video Format	HD-TVI/ AHD/ HDCVI/ HDMI/ VGA/ CVBS			
Max. Input Video Resolution	1080p@25/30Hz			
Max. HDMI Resolution	1080p@60Hz			
Max. VGA Resolution	1080p@60Hz			
Max. CVBS Resolution	480i, 576i (NTSC, PAL)			
Ports & Interfaces				
Video Input Connector	1 x 75Ω BNC			
Video Output Connector	1 x HDMI Type A, 1 x D-SUB 15,			
Video Loop-out Connector	1 x BNC (75Ω 1Vpp)			
Switch	1 x DIP Switch, 2 x Tact Switch			
Power				
Power Supply	12V 500mA			
Power Consumption	350mA, 4-5 Watts			
Ambient Temperature				
Operation	0 to 55℃			
Storage	-20 to 85℃			
Humidity	up to 95%			
Physical Characteristics				
Dimensions	88 x 130 x 30mm			
Weight	275g			