

AHD to HDMI/VGA/Composite Video Converter

ITEM NO.: AD001AHD

AD001AHD converts AHD signal to HDMI, VGA, Composite Video or AHD loop out which enabling users to use cost effective HDMI/VGA/BNC monitor to display AHD camera. It also supports 3 different output displays at same time. It is perfect solution when user wants to display AHD camera to different monitor without AHD DVR.

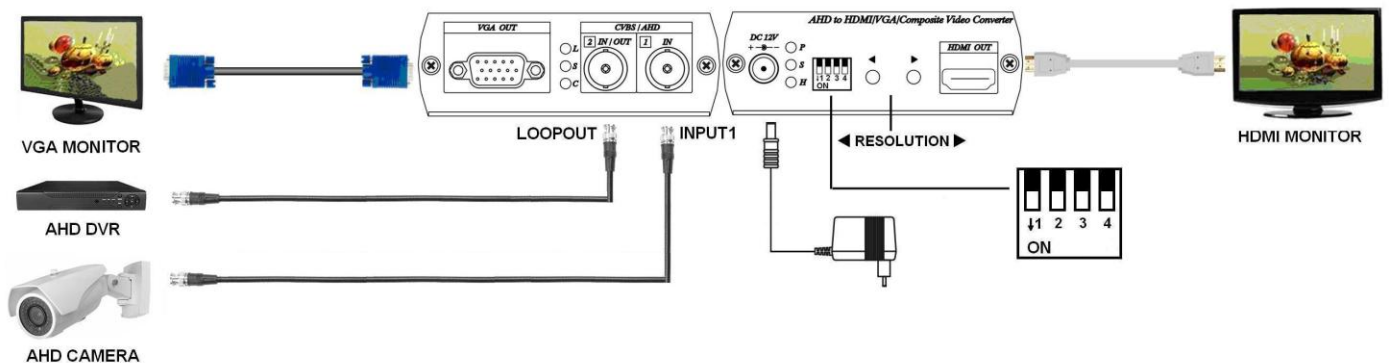
The **2 IN/OUT** function could works with 3 different function selections: CVBS output or AHD loop out as a distributor function or as second AHD input could be works as a switcher function with PIP feature to display 2 sources in one monitor.

Features:

- Converts AHD signal to HDMI, VGA, Composite Video or AHD loop out.
- Input Support: AHD 1.0 720p@25/30 and AHD 2.0 720@50/60hz, 1080p@25/30Hz, Composite Video (NTSC, PAL).
- Output Support: HDMI, VGA, Composite Video or AHD loop out.
- 3 outputs could be display simultaneously.
- **BNC connector function selection: AHD loop output, Composite video output or as second AHD input.**
- **Built in PIP (display two input picture) under dual AHD/CVBS input mode.**
- HDMI/VGA output support: 480p,576p,720p,1080i,1080p
- Composite video output support NTSC, PAL.
- Composite output built in underscan adjustment. (allow the edges of the picture fit well)
- Built in OSD to display input/output setting.
- HDMI and DVI compliant. (Support DVI monitor by a HDMI to DVI adaptor)

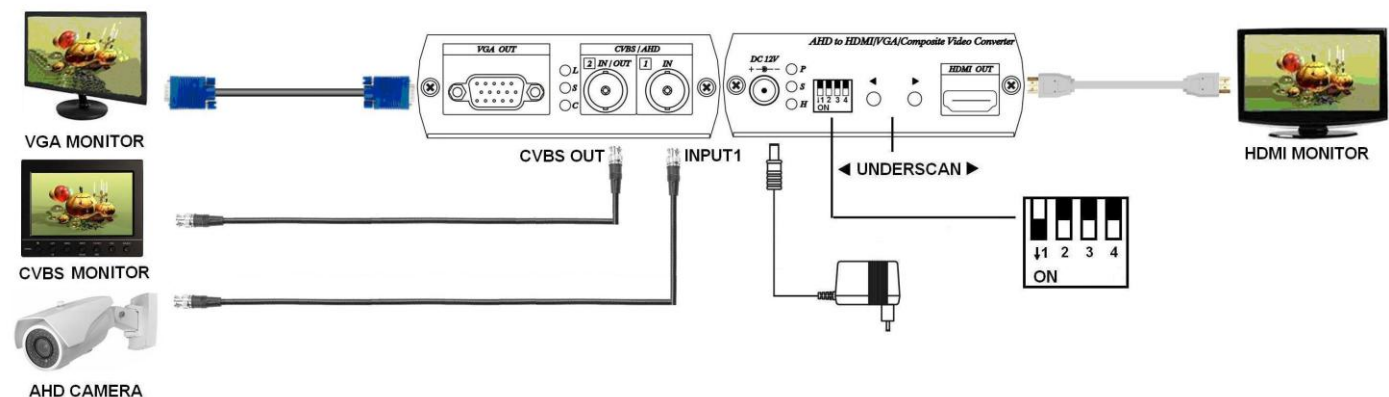
Installation:

AHD LOOPOUT Mode:



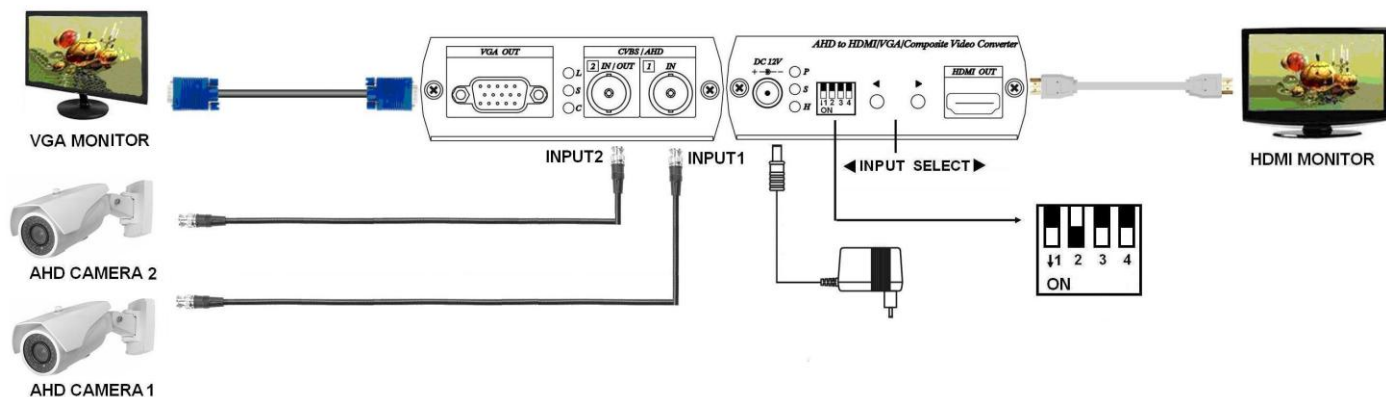
* 3 outputs: HDMI, VGA, AHD loop output as a distributor.

CVBS Output Mode:



* 3 outputs: HDMI, VGA, CVBS could be display simultaneously

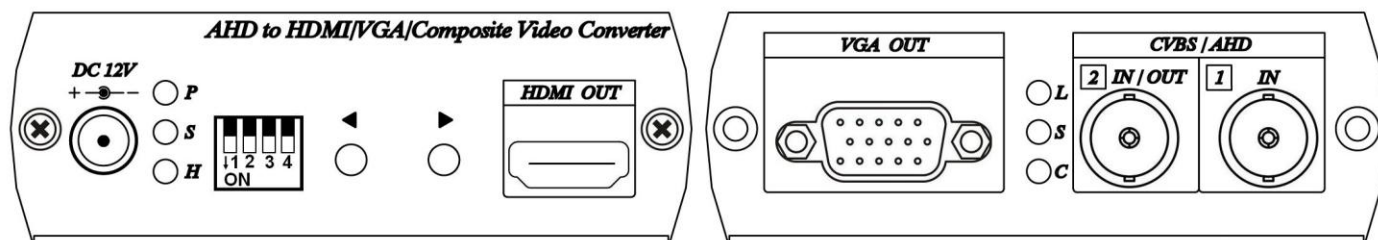
AHD Input Mode:



* Allow AHD camera 2 inputs with 2 outputs: HDMI, VGA as a Switcher.

Panel View:

AD001AHD



DC 12V
HDMI OUT
VGA OUT
1 IN
2 IN/OUT

DC 12V Power Terminal
HDMI Output Interface
VGA Output Interface
1st source input interface
Multiple function source input/output interface

LED Indication:

DC JACK LED:

Green P	Power	ON
Blue S	Input signal	Input 1 signal received
Red H	HDMI output	HDMI linking

2 IN/OUT Connector LED : (BNC)

Green L	Under LOOPOUT mode
Blue S	Input 2 signal received
Red C	CVBS OUT mode

Switch, Button Function:

DIP Switch 1 : LOOPOUT / CVBS OUT Function Selection



DIP Switch 1 (LOOPOUT)

 IN/OUT connector setting as **LOOPOUT** mode

1 IN	→	Input1 = AHD 2.0 1080p@30
2 IN / OUT	→	Loopout= AHD 2.0 1080p@30
HDMI / VGA OUT	→	Output = 1080p@60

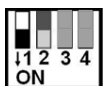
Button for resolution switching, press ◀ button to decrease the resolution, press ▶ button to increase output resolution

Resolution for switch sequence will be follow as below:


480p -> 576p -> 720p@60 -> 720p@50 -> 1080i@60 -> 1080i@50 -> 1080p@60 ->1080p@50

NTSC (CVBS) output Resolution setting on 480p, 720@60, 1080i@60, 1080p@60

PAL (CVBS) output Resolution setting on 576p, 720p@50,1080i@50, 1080p@50



DIP Switch 1 (CVBS OUT)

 IN/OUT connector setting as **CVBS** mode

1 IN	→	Input1 = AHD 2.0 1080p@30
2 IN / OUT	→	CVBS = NTSC Underscan 20%
HDMI / VGA OUT	→	Output = 1080p@60



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.

DIP Switch 2 : INPUT / OUTPUT Mode Selection





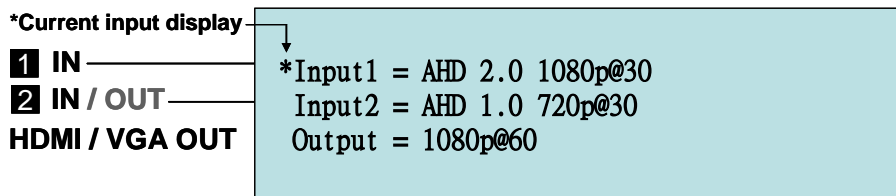
DIP Switch 2 (Output Mode)

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



DIP Switch 2 (Input Mode)

 IN/OUT connector setting as input mode,  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.

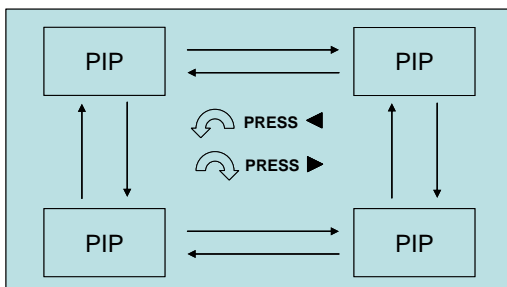
To press the ◀▶ two buttons together could switch the SD aspect ratio; the switching aspect ratio is 16:9 or 4:3. When the source is NTSC or PAL will affects HDMI and VGA output, please follow the source to make adjustment. If the input is 960H video format, then make the aspect ratio setting at 16:9. 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** ↓



Button as PIP sub-screen display position, press ◀ Counter-Clockwise to switch, press ▶ Clockwise switch

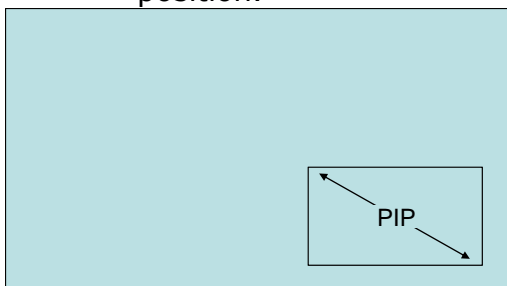
When press ◀▶ two buttons together, two inputs can be switched between the main picture and sub picture.

DIP Switch 4 : PIP Dimension Setting



DIP Switch 4 ↓ (Adjust PIP Dimension)

This function only activated on **DIP Switch 2** and **DIP Switch 3** 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.

Restore Factory Default

Unplug power and hold to press ◀ button until power on, then 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.

Specification:

ITEM NO	AD001AHD
Video Input	AHD 1.0 720p@25/30 · AHD 2.0 720p@50/60Hz · 1080p@25/30Hz · NTSC · PAL
Video Output	HDMI & VGA (480p · 576p · 720p/50/60 · 1080i/50/60 · 1080p/50/60) · CVBS (NTSC · PAL)
Input Connector	BNC (75Ω 1Vpp)
Output Connector	HDMI Type-A · D-SUB 15 · BNC (75Ω 1Vpp)
Switch	DIP Switch x 1 · Tact Switch x 2
Power Supply	12V 500mA
Power Consumption	350mA (Max) 4-5 Watts
Temperature	Operation: 0 to 55°C, Storage: -20 to 85°C, Humidity: up to 95%
Dimension mm	88 * 130 * 30
Weight g	275

RoHS   

Rev. A