

HD-TVI to HDMI/VGA/Composite Video Converter

ITEM NO.: HDTV2HDMI

AD001-TVI converts HD-TVI signal to HDMI, VGA, Composite Video or HD-TVI loop out which enabling users to use cost effective HDMI/VGA/BNC monitor to display HD-TVI camera. It also supports 3 different output displays at same time. It is perfect solution when user wants to display HD-TVI camera to different monitor without HD-TVI DVR.

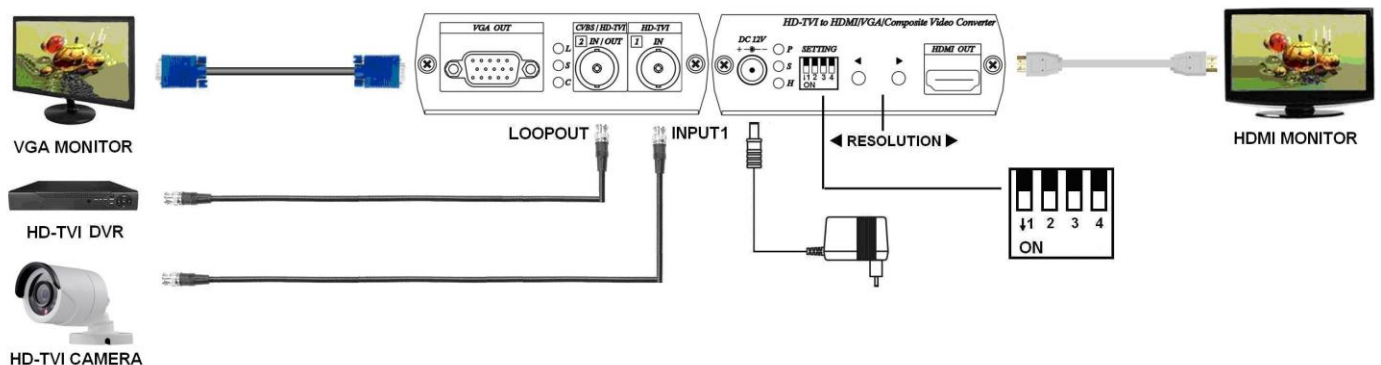
The **2 IN/OUT** function could works with 3 different function selections: CVBS output or HD-TVI loop out as a distributor function or as second HD-TVI input could be works as a switcher function with PIP feature to display 2 sources in one monitor.

Features:

- Converts HD-TVI signal to HDMI, VGA, Composite Video or HD-TVI loop out.
- Input support: HD-TVI 720p@25/30 and HD-TVI 720@50/60hz, 1080p@25/30Hz
- Output support: HDMI, VGA, Composite Video or HD-TVI loop out.
- 3 outputs could be display simultaneously.
- BNC connector function selection: HD-TVI loop output, Composite Video output or as second HD-TVI input.
- Built in PIP (display two input picture) under dual HD-TVI 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)

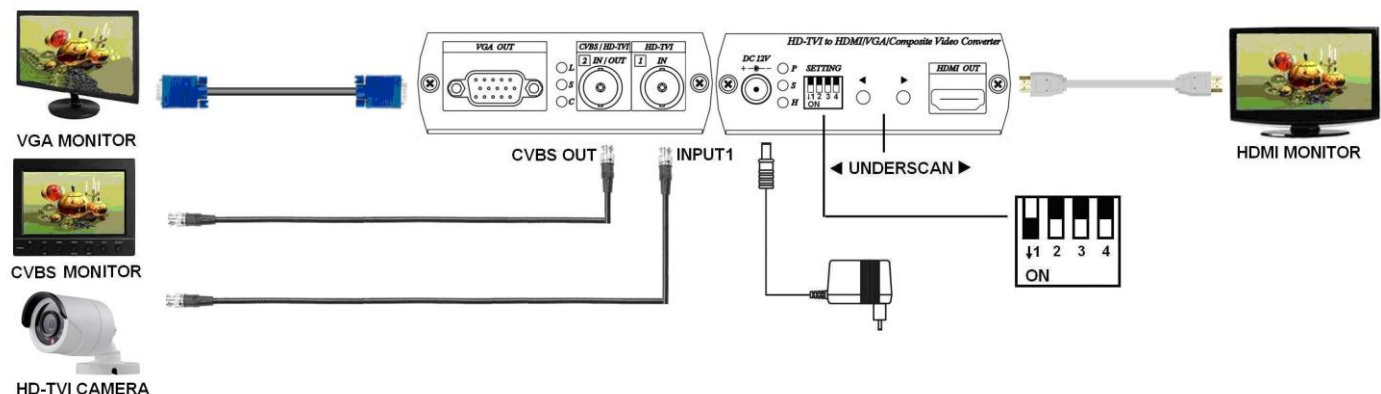
Installation:

HD-TVI Loopout Mode:



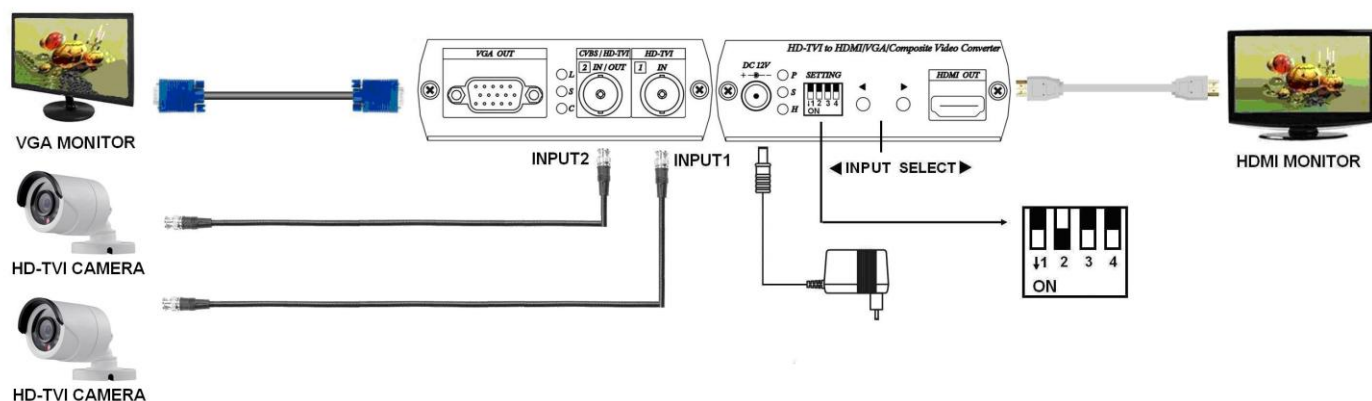
* 3 outputs: HDMI, VGA, HD-TVI loop output as a distributor.

CVBS Output Mode:



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

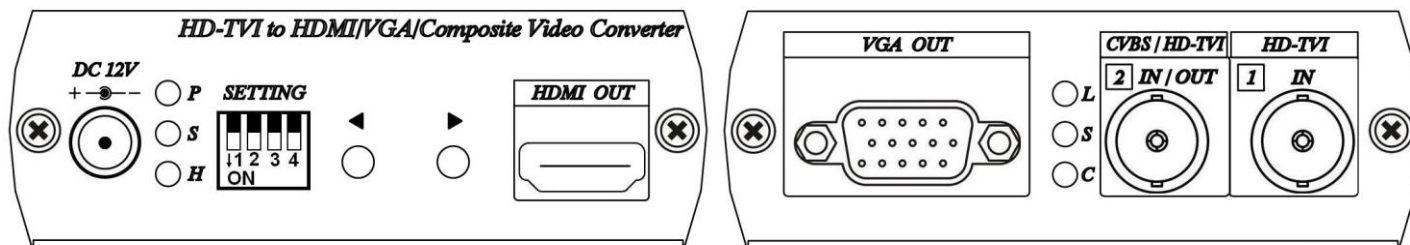
HD-TVI Input Mode:



* Allow HD-TVI camera 2 inputs with 2 outputs: HDMI, VGA as a switcher.

Panel View:

HDTV2HDMI



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 1 signal received
Red H	HDMI output 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)



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

1 IN	→	Input1 = HD-TVI 1080p@30
2 IN / OUT	→	Loopout= HD-TVI 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, 720p@60, 1080i@60, 1080p@60

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



DIP Switch 1 (CVBS OUT)

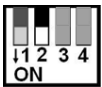
2 IN/OUT connector setting as **CVBS** mode

1 IN	→	Input1 = HD-TVI 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



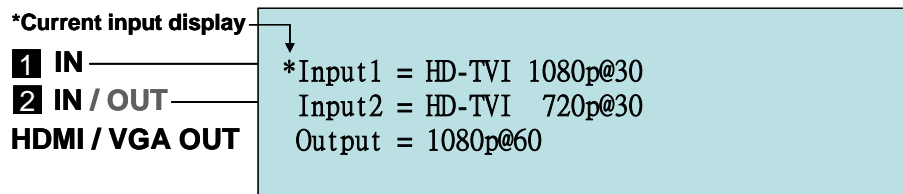
DIP Switch 2 (Output Mode)

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.

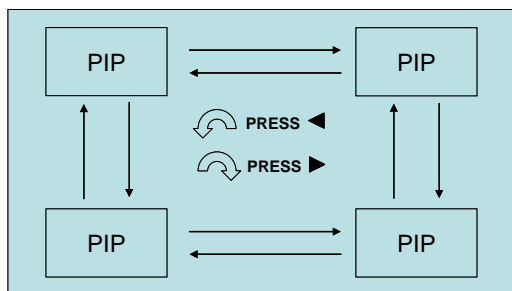
To press the ◀▶ two buttons together could switch the SD aspect ratio; the switching aspect ratio is 16:9 or 4:3. When the source is NTSC or PAL will affects HDMI and VGA output, please follow the source to make adjustment. If the input is 960H video format, then make the aspect ratio setting at 16:9.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

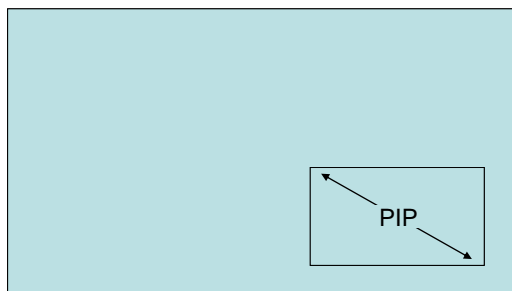


When press◀▶ two buttons together, two inputs can be switched between the main picture and sub picture.

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 for 5 seconds, 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.
3. This product TVI input and TVI loop out do not support audio and data transmission.

Specification:

ITEM NO	HDTVI2HDMI
Video Input	HD-TVI 720p@25/30/50/60Hz、1080p@25/30Hz、
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℃, Storage: -20 to 85℃, Humidity: up to 95%
Dimension (mm)	88 * 130 * 30
Weight (g)	275

RoHS CE FCC

Rev. B