ENFORCER®

4-in-1 HD to HDMI Converter

VC-3YAQ

Installation Manual

The ENFORCER 4-in-1 HD to HDMI Converter transforms HD-TVI, HD-CVI, HD-AHD, or traditional analog video inputs into an HDMI, VGA, or CVBS signal. The converter also allows for HD analog video loop output, HD analog dual video input, and picture-in-picture modes. The converter is compact and can be mounted nearly anywhere and is a good solution for converting any HD analog video source to an HDMI, VGA, or CVBS signal to allow viewing on a wide range of video monitors.

- Converts HD-TVI, HD-CVI, HD-AHD, or analog/CVBS video to HDMI, VGA, CVBS, or loop output
- Secondary BNC connection supports CVBS conversion, loop output, or dual HD analog video input
- Dual HD Analog video input mode to switch between multiple video inputs
- Wall mountable with included screws
- Picture-in-picture mode when dual HD analog video input used
- HDMI/VGA output support: 480p, 576p, 720p, 1080i, 1080p
- CVBS output support: NTSC, PAL
- CVBS underscan adjustment
- Compact, perfect for plug and play installations
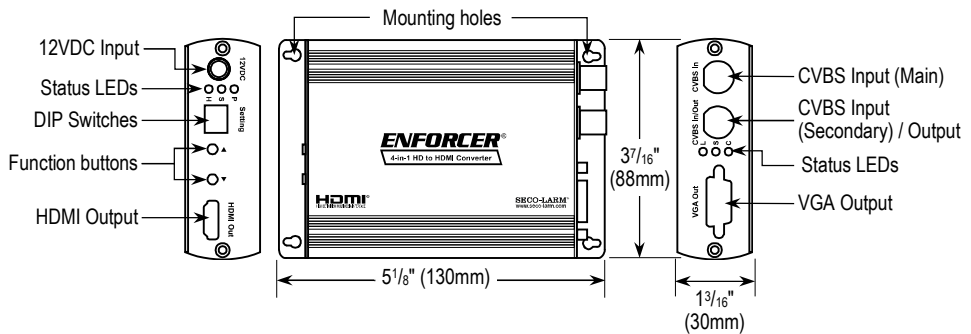- Quick installation, no driver or operating system requirements

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Parts List

1x **Converter**
4x **Wall-mount screw anchors**

1x **12VDC Power adapter**
1x **Manual**

4x **Wall-mount screws**

Specifications

Input signal		HD-TVI (default), HD-CVI, HD-AHD, NTSC, PAL
Output signal		HDMI, VGA, CVBS, loop output
Input resolutions supported		720p@25/30/50/60 Hz, 1080p@25/30 Hz, NTSC, PAL
Output resolutions supported	**HDMI/VGA**	480p, 576p, 720p@50/60 Hz, 1080i@50/60 Hz, 1080p@50/60 Hz
	CVBS	NTSC/PAL
Output connector	**HDMI**	Type A 19-pin female
	VGA	D-SUB 15-pin female
	BNC	75Ω 1Vp-p
Input connector		BNC (75Ω 1Vp-p)
Maximum input cable length		HD-TVI, HD-CVI, HD-AHD: 984ft (300m); CVBS: 328ft (100m)
Maximum output cable length		HDMI: 16ft (5m); VGA: 16ft (5m); CVBS: 328ft (100m)
Power supply		500mA@12VDC
Power consumption		350mA (max.)
Operating humidity		Up to 95%
Operating temperature		32°~131° F (°0~55° C)
Dimensions		5^1/$_8$"x3^7/$_{16}$"x1^3/$_{16}$" (130x88x30 mm)
Weight		9.7-oz (275g)

Overview

LEDs

The VC-3YAQ has six LEDs that indicate input and output status.

HDMI Output Side

P	Green	Power input present
S	Blue	Signal (main input)
H	Red	HDMI Output present

VGA Output Side

L	Green	Loop output mode
S	Blue	Signal (secondary input)
C	Red	CVBS Output mode

DIP Switch Settings and Button Functions

Output Mode	DIP 1	DIP 2	DIP 3	DIP 4	Function Buttons		
					Left ◄	**Right ►**	**Left + Right ◄ + ►**
Loop output	OFF	OFF	OFF	OFF	Decrease output resolution Switch AHD/CVI (with source video disconnected)*	Increase output resolution	N/A
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	CVBS Input (main)	CVBS Input (secondary)	Switch 4:3/16:9 (CVBS main 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

*With video source connected, the left/right buttons set the output resolution. Disconnect video source to switch between AHD/CVI. The AHD setting covers AHD, TVI, and CVBS. If the image displayed is B&W, check that the input type is correct. Because CVI's display ratio is different, black bars may appear at the sides of the image. Use the DVR or monitor display controls to adjust the display width.
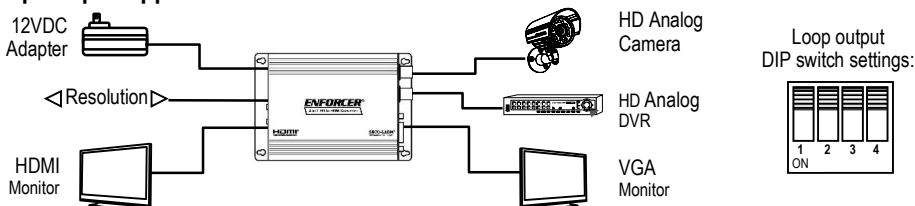
†PIP: Picture-in-Picture (for dual inputs)

Installation

1. Use the DIP switches to set the desired output mode.
2. Plug the VGA, HDMI, and BNC output cables into their respective ports as necessary.
   a. For loop output or for CVBS output, connect the other end of the BNC output cable to the local DVR or monitor.
   b. For dual video input, connect the other end of the BNC output cable to the secondary CCTV camera.
3. Plug the 12VDC adapter into the converter.
4. If the input source is CVI, use the right/left buttons to switch the input type (see *DIP Switch Settings and Button Functions* table and notes above).
5. Plug the BNC cable from the CCTV camera to the CVBS Input (Main) BNC connector on the converter.
6. Once all cables are routed use the included mounting screws and mounting screw anchors to permanently mount the unit.
7. Use the function buttons to adjust the output resolution, CVBS underscan, picture-in-picture position, or picture-in-picture size based on the DIP switch settings.
8. If needed, adjust your monitor settings according to the manufacturer's instructions.
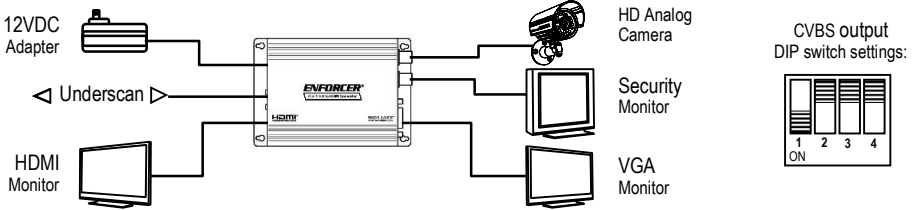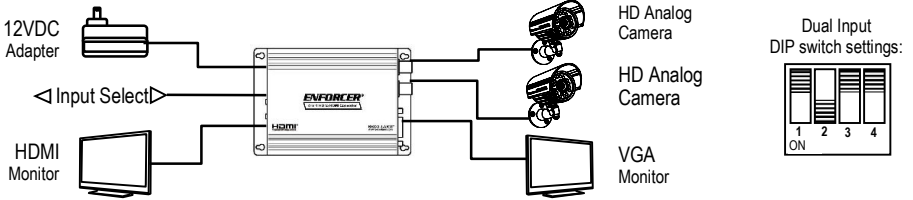
Sample Applications

Loop Output Application

Sample Applications (Continued)

CVBS Output Application

12VDC Adapter

◁ Underscan ▷

HDMI Monitor

HD Analog Camera

Security Monitor

VGA Monitor

CVBS output DIP switch settings:

1 ON 2 3 4

Dual Input Application (Same Cable Connections Also Used for PIP)

12VDC Adapter

◁ Input Select ▷

HDMI Monitor

HD Analog Camera

HD Analog Camera

VGA Monitor

Dual Input DIP switch settings:

1 ON 2 3 4

Troubleshooting

HDMI or VGA monitor does not display properly	• Make sure that the converter is set for the correct input source type – AHD (including TVI and CVBS) or CVI • Make sure power, input, and output cables are firmly connected to the converter. • Make sure the CCTV inputs are turned on. • Make sure the video output devices are turned on. • Test the cables between the converter and video output devices to ensure they are functional.
CVI Display does not fill the screen	• Adjust display ratio using the DVR or monitor adjustment control.
HDMI Output side LED not lit	• Ensure relevant connector is firmly connected.
VGA Output side LED not lit	• Ensure correct mode is selected using the DIP switches.
HD-AHD or HD-CVI outputting B&W video	• Disconnect the video source and, with the OSD, use the right/left buttons to change the video source type – AHD (including TVI and CVBS) or CVI.

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