ENFORCER®

VC-3YAQ

4-in-1 HD to HDMI Converter

Manual

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

Features:

- 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

SECO-LARM® SLI®

FC CE RoHS

ENFORCER 4-in-1 HD to HDMI Converter

Introduction:

The SECO-LARM 4-in-1 HD to HDMI Converter is the ideal way to transform 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 HD to HDMI Converter is compact and can be mounted nearly anywhere. The HD to HDMI Converter is perfect for converting any HD Analog video source to an HDMI, VGA, or CVBS signal to allow viewing on a wide range of video monitors.
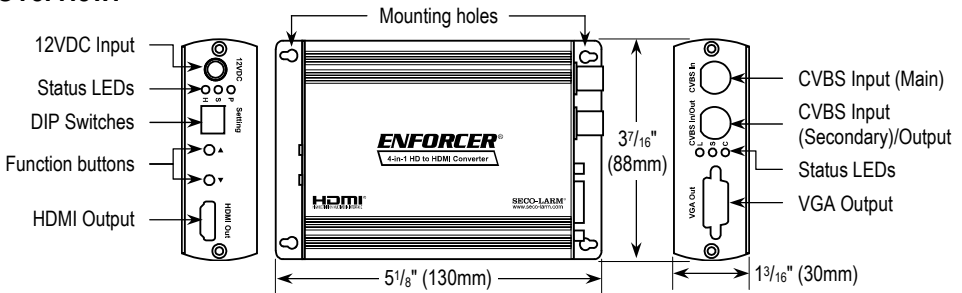
Parts List:

1x	Converter	1x	12VDC power adapter	1x	Manual	
4x	Wall mount screws	4x	Wall mount screw anchors			

Specifications:

Input signal		HD-TVI, 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		$5^1/_8$"x$3^7/_{16}$"x$1^3/_{16}$" (130x88x30 mm)
Weight		9.7-oz (275g)

Overview:

12VDC Input
Status LEDs
DIP Switches
Function buttons
HDMI Output

Mounting holes

ENFORCER®
4-in-1 HD to HDMI Converter

$3^7/_{16}$" (88mm)

CVBS Input (Main)
CVBS Input (Secondary)/Output
Status LEDs
VGA Output

$5^1/_8$" (130mm) $1^3/_{16}$" (30mm)

LEDs:

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

HDMI Output Side			VGA Output Side		
P	Green	Power input present	L	Green	Loop output mode
S	Blue	Signal (Main Input)	S	Blue	Signal (Secondary Input)
H	Red	HDMI output present	C	Red	CVBS output mode

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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	Increase output resolution	Switch AHD/CVI (requires power cycle)[1]
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[2] 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

[1] If an HD-CVI or HD-AHD source is used and the image displayed is B&W then press both function buttons at the same time and power cycle the converter. Upon power up the image will display correctly. HD-TVI does not require a power cycle to output correctly.
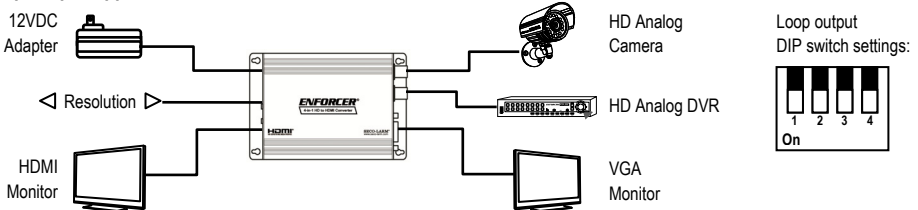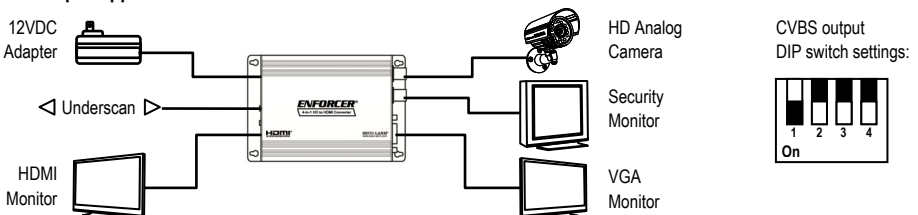[2] PIP: Picture-in-Picture (for dual inputs)

Installation:

1. Determine the location where the 4-in-1 HD to HDMI Converter will be installed.
2. Use the DIP switches to set the desired output mode.
3. Plug the BNC cable from the CCTV camera to the CVBS Input (Main) BNC connector on the converter.
4. Plug the remaining VGA, HDMI, and BNC output cables into their respective ports as necessary.
   a. For loop output, connect the other end of the BNC output cable to the local DVR or monitor.
   b. For CVBS output, connect the other end of the BNC output cable to the local DVR or monitor.
   c. For dual video input, connect the other end of the BNC output cable to the secondary CCTV camera.
5. Plug the 12VDC adapter into 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.

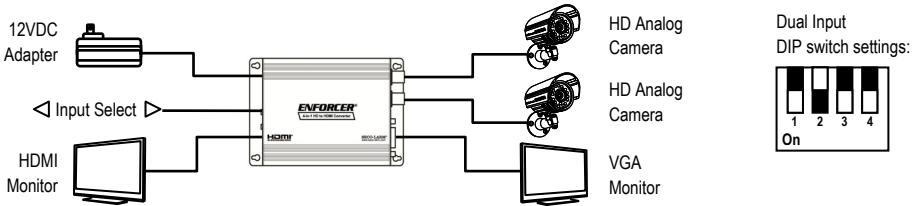## Sample Applications:

Loop Output Application:

CVBS Output Application:

Sample Applications (Continued):

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 | 2 | 3 | 4 |
On

Troubleshooting:

HDMI or VGA monitor does not display properly	• 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.
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	• Press both function switches at the same time and reset power.

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IMPORTANT: Users and installers of this product are responsible for ensuring this product complies with all national, state, and local laws and statutes related to monitoring and recording audio and video signals. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or statutes.

FCC COMPLIANCE STATEMENT: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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