HDMI to Video Scan Converter w/Audio output - ID# 921

Operation Manual

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Introduction

HDMI to Video Scan Converter w/Audio output is designed to convert a digital HDMI source signal to an analog Video / Audio PAL or NTSC output via Composite Video. Now you can display High Def video content in Standard Def 480i or 576i resolution to suit most TV screens and monitors. Simple plug'n'play feature allows for easy connection to your source and target devices. OSD menu display gives the User complete control over output format selection, scan characteristics and aspect ratio.

Features

• HDMI 1.2, HDCP1.1 and DVI1.0 compliant
• Converts video signal from HDMI source to NTSC or PAL signal
• Converts digital audio from HDMI source to analog stereo audio
• Accepts a wide range of HDTV input resolutions, from 480p to 720p@60Hz and PC from VGA@60Hz to WXGA@60Hz
• Output picture size Underscan / Overscan
• Motion adaptive 3-D de-interlacing with pixel-by-pixel motion adaptive interpolation
• 3D noise reduction in both temporal and spatial domain
• Frame rate conversion with arbitrary conversion ration
• Adaptive contrast enhancement

Applications

• HD signal convert into Composite signal
• Digital audio signal convert into analog audio signal
• HDMI source to NTSC or PAL signal

System Requirements

Input source equipment such as DVD or Blu-Ray player with HDMI cable and output display TV/Monitor with composite & L/R RCA jack cable.

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**Operation Controls
and Functions
Top Panel**
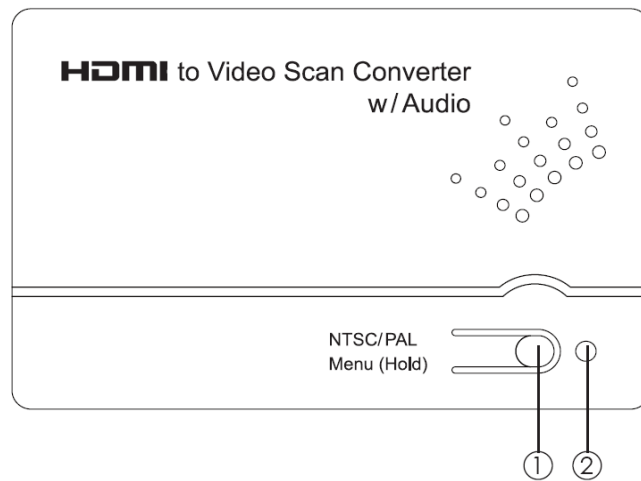
1. NTSC/PAL MENU (3SEC): Press this button to bring up the OSD which will display the input timing and output TV system information.
While the OSD is still displaying press the button again to switch output TV system from NTSC to PAL or from PAL to NTSC.
Press this button for 3 second the OSD will bring up the selection menu. Press it sequentially to select the desire setting.
2. Power LED: This LED will illuminate in RED when the power is connected with the power supply.

Left Panel
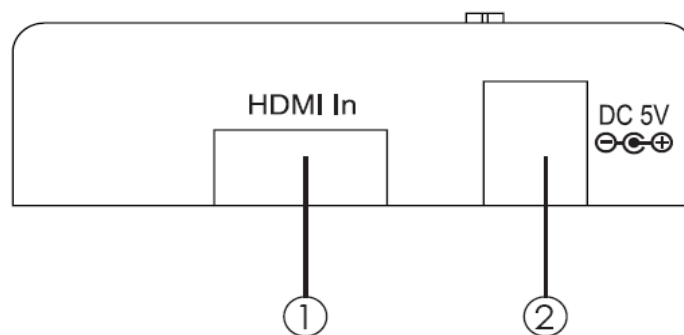
1. HDMI IN: This slot is to connect to the HDMI source equipment such as PC/ NB with HDMI output and the connection cable for input signal sending.
2. DC 5V: Plug the 5V DC power supply included in the package into the unit and connect the adapter to AC wall outlet.

Right Panel
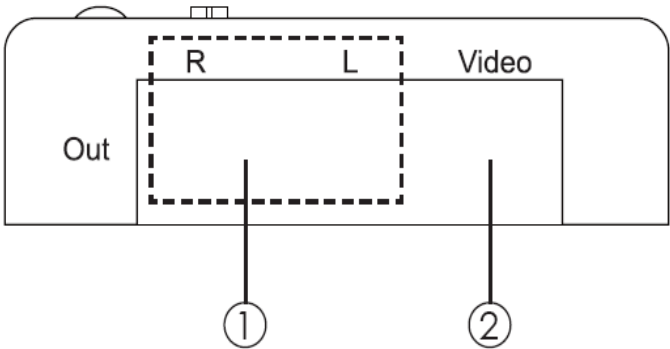
1. OUTPUT L/R: These slots are to connect to the active speaker or the TV/ monitor with input L/R jack with RCA cable for output audio sound.
2. OUPUT VIDEO: This slot is to connect the display TV or monitor with RCA cable for output image display.

OSD Menu

IN	1280 x 960 @60 (Input Timing)
OUT	NTSC (Output TV System)

NTSC		
PAL		
Underscan 1		
Underscan 2		
Overscan		
Aspect Adj	Full Screen	
	Letterbox	
	Pan & Scan	
	Auto TV 4:3	
	Auto TV 16:9	

Below is the example of the scan selection result.

Source   TV   Underscan1   Underscan2   Overscan
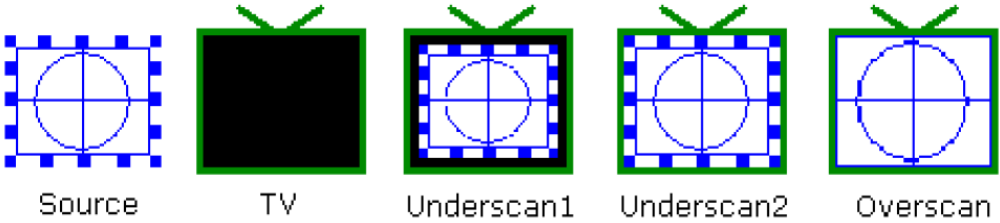
Aspect Adjustment: There are a total of 5 different adjustments under Aspect which include: Full Screen, Letterbox, Pan & Scan and Auto TV 4:3 & 16:9.

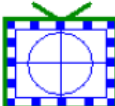**Full Screen:** To allow the image to fill out the screen of the TV.
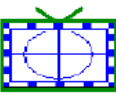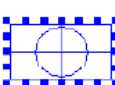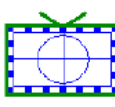
Letterbox: To fit the output image closer to the input source, compressed the upper and lower image.

Pan & Scan: To fit the output image closer to the input source, compressed the right and left image.

Auto TV 4:3: Allowing the device to auto detect input source signal of 4:3 or 16:9 and make the auto adjustment.

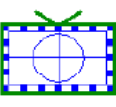**Auto TV 16:9:** Allowing the device to auto detect input source signal of 16:9 or 4:3 and make the auto adjustment.

Below is the sample chart of the selection result:

Source TV / Aspect Adj	Full Screen	Letterbox	Pan&Scan	Auto TV 4:3	Auto TV 16:9
4:3	4:3	X	X	(image)	X
16:9	16:9	X	(image)	X	(image)
4:3	4:3	(image)	X	(image)	X
16:9	16:9	X	X	X	(image)

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Specifications

Input Port	1 x HDMI,
Output Port	1 x CVBS, 1 x L/R RCA Jack
HDMI Input Resolution	480p, 576p & 720p,
	VGA@60 / 72 / 75 / 85,
	SVGA@56 / 0 / 72 / 75 / 85,
	XGA@60 / 70 / 75,
	WXGA(15:9 & 16:10)@60RB / 60
HDMI Input Audio	LPCM 2Ch, 48kHz
Output Video	NTSC/PAL
Output Audio Stereo	L/R
ESD Protection	Human body model:
	$\pm$ 8kV (air-gap discharge)
	$\pm$ 6kV (contact discharge)
Dimensions(mm)	114 (W) x 65 (D) x 26(H)
Weight(g)	120
Chassis Material	Plastic
Silkscreen Color	Black
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Power Consumption	W
Relative Humidity	20 ~ 90% RH (non-condensing)

Connection

NB   PC   or   Blu-Ray

HDMI In   DC 5V

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