HDMI to HDMI Scaler Box - #15405



Operation Manual



Introduction	The HDMI to HDMI Scaler is designed to upscale an HDMI video signal from an HDMI source device and output in a wide range of HDTV and PC resolutions up to 1080p/WUXGA. Additionally this unit can also convert a digital/analog audio signal and then simultaneously output to an HDMI, Optical and 3.5mm Mini-jack (L/R audio) connections. This unit has a comprehensive OSD menu that allows the user to select a variety of output resolutions, allowing the conversion of the video signal to maximize compatibility, and make adjustments to optimize the image quality.			
Applications	 Display an otherwise incompatible HDMI signal on an HDMI display Upscale a standard definition video signal for display on a High Definition display Lecture room/Showroom/Meeting room/Classroom signal display 			
Features	 HDMI, HDCP and DVI compliant Supports full range of PC resolution from VGA to WUXGA (RB)and HD resolution from 480i to 1080p Automatically detects the display settings of the connected display and outputs the correct resolution and refresh rate when the NATIVE output option is selected Supports 50/60Hz frame rate conversion Supports 3D motion video adaptive, 3D de-interlacing, and 3:2/2:2 pull-down detection and recovery Provides adjustment of contrast, brightness, hue, saturation, sharpness, RGB (color tone) level and aspect ratio size of the video output Supports OSD selectable stereo analog and digital audio inputs and simultaneous stereo analog and digital audio outputs to HDMI, Optical digital audio and analog mini-jack connections 			
System Requirements Operation Controls and Functions	HDMI source equipment such as a DVD player or set-top box and an HDMI equipped display and audio amplifier. Front Panel			



1. HDMI OUTPUT:

Connect to a HDMI equipped display or AV receiver for video and audio output.

2. OPTICAL OUTPUT:

Connect to an amplifier or active speakers with an optical cable for LPCM 2 channel digital audio output.

3. AUDIO OUTPUT:

Connect to an amplifier or active speakers with a

3.5mm mini-jack cable for analog audio output.

4. MENU:

Press this button to enter the OSD (On-screen Display) menu and press it again to make a selection.

5. Plus (+)/Minus (-):

Press these buttons to:

When in the OSD menu

- Navigate up/down the OSD menu.
- To adjust the value of a menu selection. Under normal operation (outside of OSD menu)
- Press the "+" button together with the "MENU" button to switch the output resolution to XGA@60 (1024×768).
- Press the "-" button together with "MENU" button to switch the output resolution to 720p@60.
- Press both the "+" and "-" buttons at the same time to reset the device to the default settings.

Rear Panel



1. HDMI INPUT:

Connect to an HDMI source device such as a Blu-ray player or set-top box with an HDMI cable or to a DVI source device such as a PC/Laptop with a DVI to HDMI adaptor.

2. AUDIO INPUT:

Connect to the analog audio output of the source

device such as a PC/Laptop with a 3.5mm mini-jack cable.

3. OPTICAL INPUT:

Connect to the optical digital audio output of the source device such as DVD/Blu-ray player with an optical cable.

4. SERV.:

Reserved for firmware update only.



5. DC 5V:

Connect the 5V DC power supply to the unit and plug the adaptor into an AC outlet.

6. Power LED:

This LED will illuminate once the unit is connected to an active power supply.

OSD Menu

Main Menu	1 st Layer	2 nd Layer		
Picture Setting	Contrast	0~100 (50)		
	Brightness	0~100 (50)		
	Exit			
FineTune	Hue	0~100 (50)		
	Saturation	0~100 (50)		
	Sharpness	0~100 (50)		
	NR	OFF, LOW, MIDDLE, HIGH (OFF)		
	Exit			
Colour Setting	Red	0~100 (50)		
	Geen	0~100 (50)		
	Blue	0~100 (50)		
	Exit			
Output Setting	Size	FULL, OVERSCAN, UNDERSCAN, LETTER BOX, PANSCAN, ASPECT (FULL)		
	Resolution	640×480@60, 800×600@60, 1024×768@60, 1280×1024@60, 1400×1050@60, 1600×1200@60, 1280×800@60, 1440×900@60, 1680×1050@60, 1920×1200@60RB, 1600×900, 480p, 576p, 720p@50, 720p@60, 1080i@50, 1080i@60, 1080p@50, 1080p@60, NATIVE		
	Exit			
Audio Setting	Delay	OFF, 40ms, 110ms, 150ms (OFF)		
	Input	EMBEDDED, ANALOG, OPTICAL (EMBEDDED)		
	Sound	ON, MUTE (ON)		



	Exit	
OSD Setting	H-Position	0~100 (10)
	V-Position	0~100 (90)
	Timer	0~100 (50)
	Background	0~100 (50)
	Display	INFO, ON, OFF (INFO)
	Exit	
Factory Reset		
Information		
Exit		

Note: Values in brackets are default for that setting.

Supported Resolutions

Resolution	Input	Output
640×480@60/72/75/85Hz		60Hz
800×600@56/60/72/75/85Hz	\checkmark	60Hz
1024×768@60/70/75/85Hz	√	60Hz
1280×1024@60/75/85Hz	\checkmark	60Hz
1400×1050@60Hz	\checkmark	\checkmark
1600×1200@60Hz	\checkmark	
1280×800@60Hz	√	
1440×900@60Hz	√	
1600×900@60Hz	√	
1680×1050@60Hz	√	
1920×1200@60Hz (RB)	√	\checkmark
480i/576i	√	
480p/576p	√	
720p@50/60Hz	√	
1080i@50/60Hz	√	\checkmark
1080p@50/60Hz	\checkmark	\checkmark



Specifications

Video Bandwidth	225MHz/6.75Gbps	
Input Ports	1×HDMI, 1×3.5mm Mini-jack, 1×Optical	
	(TOSLINK), 1×USB (Service only)	
Output Ports	1×HDMI, 1×3.5mm Mini-jack, 1×Optical	
	(TOSLINK)	
HDMI Output Resolutions	Up to 1080p & WUXGA@60 (RB)	
HDMI and Optical Audio		
Sampling Rates	Up to 48kHz	
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL	
	certified)	
ESD Protection	Human body model:	
	±8kV (air-gap discharge)	
	±6kV (contact discharge)	
Dimensions	102mm(W)×155.75mm(D)×25mm(H)	
Weight	338g	
Chassis Material	Aluminum	
Color	Black	
Operating Temperature	0°C~40°C/32°F~104°F	
Storage Temperature	−20 °C~60 °C/−4 °F~140 °F	
Relative Humidity	20~90% RH (non-condensing)	
Power Consumption	5.5W	



Connection Diagram



