# HDMI 4K2K 1x2 SD-HD Scaler - ID# 15338

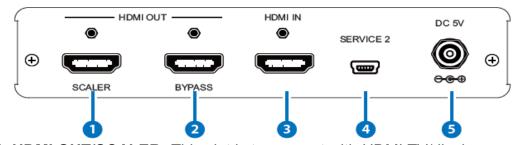


**Operation Manual** 



Introduction	The 1 by 2 HDMI Scaler is designed to scale both 4K2K and non-4K2K HDMI signal into 1080p and also, bypass 4K2K signal out on to 4K2K display. Allowing all types of HDMI source signal to be display on HDTV/ Monitor. With friendly and simple design which allows user with direct viewing on input resolution and output signal up to 2 simultaneous HDMI. The 1 by 2 HDMI Scaler is your best media between HD and Ultra HD signal.
Features	<ul> <li>Supports HDMI 4K2K signal bypass</li> <li>Supports HDMI signal bypass</li> <li>Simultaneous HDMI outputs</li> <li>Friendly and simple to use</li> </ul>
Applications System Requirements	<ul> <li>Ultra HDMI source displaying on standard LED TV/monitor</li> <li>Ultra HDMI source displaying on 4K2K TV/Panel</li> <li>Examining if display supports 4K2K</li> <li>Examining if source supports 4K2K</li> </ul>
Operation Controls and Functions	Input source equipment such as DVD/Blu-ray(4K2K) player and output HDMI (4K2K) TV/display

### **Front Panel**



1. HDMI OUT/SCALER: This slot is to connect with HDMI TV/display for output AV displaying with resolution up to 1080p. **2. BYPASS:** This slot is to connect with HDMI TV/display with or without 4K2K specification for output AV displaying according to inputsource signal setting.



Input Source	Scaler Output	Bypass Output
1080p	1080P	1080P
4K2K	1080P	4K2K

**Note:** Displaying HDMI 4Kx2K contents, equivalent source signal and HDMI cable are required on BYPASS output connection.

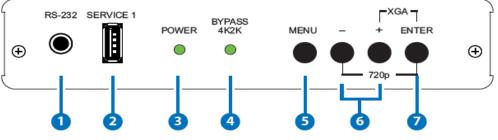
**3. HDMI IN:** Connect from HDMI source equipment such as Blu-ray/DVD player with or without 4K2K signal.

4. SERVICE 2: This slot is reserved for factory use only.

**5. 4K2K** / **1080P LED:** These LED will illuminate according to input source signal's resolution when both LED are illuminating it state the input source's signal does not belong to 4K2K/1080P@24.

**6.** DC **5V** IN: Connect 5V DC power supply into the unit and connect the adaptor to an AC outlet.





- 1. RS-232: This slot is reserve for factory use only.
- **2. SERVICE 1:** This slot is reserve for factory use only.
- **3. POWER LED:** This LED will illuminate when the device is connected with power supply.
- **4. BYPASS 4K2K:** This LED will illuminate when the input signal contains with 4K2K resolution.
- 5. MENU: Press this button to enter into OSD menu.
- **6.** -/+: Press this button to scroll down/up the menu selection. Press "-" with "ENTER" button to switch SCALER output resolution to 720p instantly or press "+" with "ENTER" button to switch SCALER output resolution to XGA instantly.
- 7. ENTER: Press this button to enter or confirm the selection.



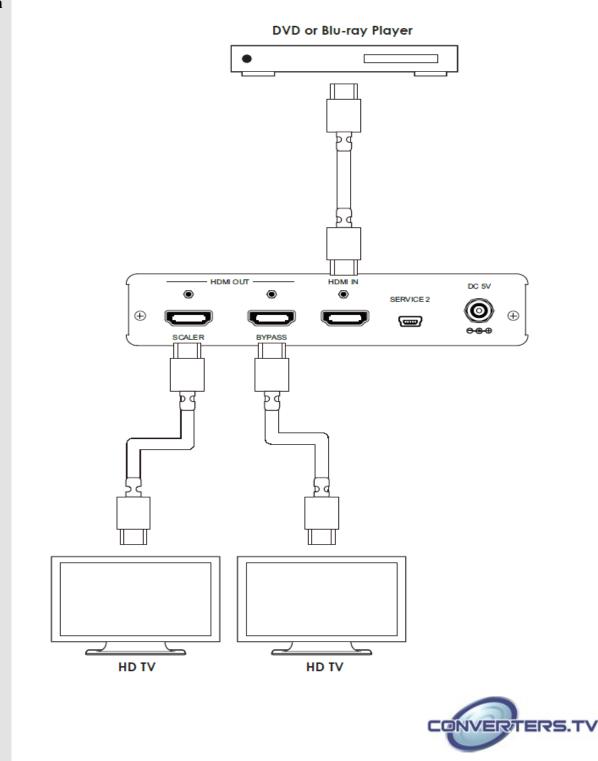
## **OSD** Menu

1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	3 <sup>rd</sup> Layer	4 <sup>th</sup> Layer
Picture Setting	Contrast		
	Brightness		
	Fine Tune	Hue	0~100
		Saturation	0~100
		Sharpness	0~100
		NR	Off/High/ Middle/ Low
		Exit	
	Colour	Red	0~100
		Green	0~100
		Blue	0~100
		Exit	
Output Setting	Size	Full/Over Scan/Under Scan/Letter Box/Pan Scan/Best Fit	
	Resolution	640x480/60,800x600/60,1 024x768/60,1280x1024/6 0,1600x1200/60,1366x76 8/60,1680x1050/60,1920x 1200/60,1280x800/60,144 0x900/60,1400x1050/60,1 600x900/60,480i/480p/72 0p60/1080i60/1080p60/57 6i/576p/720p50/1080i50/1 080p50/ Native	
	Exit		
OSD Setting	H-Position	0~100	
	V-Position	0~100	
	Timer Out	5~100	
	Background	0~100	
	Display	Info/On/Off	
	Exit		
Factory Setting	Reset	Yes/No	



	Exit		
Information	Input	X	
	Output	X	
	Version	X.XX	
Exit			

# **Connection Diagram**



HDMI Supported Resolutions	Input	Output
640x480@60	$\checkmark$	$\checkmark$
640x480@72	$\checkmark$	
640x480@75	$\checkmark$	
720x480@60	$\checkmark$	
720x480i@60	$\checkmark$	
720x576i@50	$\checkmark$	$\checkmark$
720x576p@50	$\checkmark$	$\checkmark$
800x600@56	$\checkmark$	
800x600@60	$\checkmark$	$\checkmark$
800x600@72	$\checkmark$	
800x600@75	$\checkmark$	
1024x768@60	$\checkmark$	$\checkmark$
1024x768@70	$\checkmark$	
1024x768@75	$\checkmark$	
1280x720@60	$\checkmark$	
1280x720p@60	$\checkmark$	
1280x800@60	$\checkmark$	$\checkmark$
1280x1024@60	$\checkmark$	$\checkmark$
1440x1050@60		$\checkmark$
1600x1200@60	$\checkmark$	$\checkmark$
1920x1080@60	$\checkmark$	
1920x1080i@50	$\checkmark$	$\checkmark$
1920x1080i@60	$\checkmark$	$\checkmark$
1920x1080p@23.97	$\checkmark$	$\checkmark$
1920x1080p@24	$\checkmark$	$\checkmark$
1920x1080p@25	$\checkmark$	$\checkmark$
1920x1080p@29.97	√	
1920x1080p@30	√	$\checkmark$
1920x1080p@50	$\checkmark$	$\checkmark$
1920x1080p@60	√	
1920x1200@60(RB)	$\checkmark$	$\checkmark$



#### Specifications

Video Frequency Input Ports	300MHz/9Gbps 1 x HDMI, 2 x USB (Service only),
	1 x RS-232 (Service only)
Output Ports	2 x HDMI
HDMI Cable Distance	In 15M, Out 15M@1080p/8bit, In 10M, Out
	10M@1080p/12bit, In 5M, Out 10M@4K2K
Power Supply	5V / 2.6A DC (US/EU standards, CE/FCC/
	UL certified)
<b>ESD</b> Protection	Human body model:
	±8kV (air-gap discharge)
	±4kV (contact discharge)
Dimensions	145(W) x 167(D) x 30 (H)
Weight(g)	488
Chassis Material	Aluminum
Silkscreen Color	Black
<b>Operating Temperatur</b>	$e 0^{\circ}C \sim 40^{\circ}C / 32^{\circ}F \sim 104^{\circ}F$
Storage Temperature	-20°C~60°C / -4°F ~ 140°F
<b>Relative Humidity</b>	20 ~ 90% RH (non-condensing)
Power Consumption	7.7W

