



## 280595

### 12x3 Multi-Function Switch/Scaler



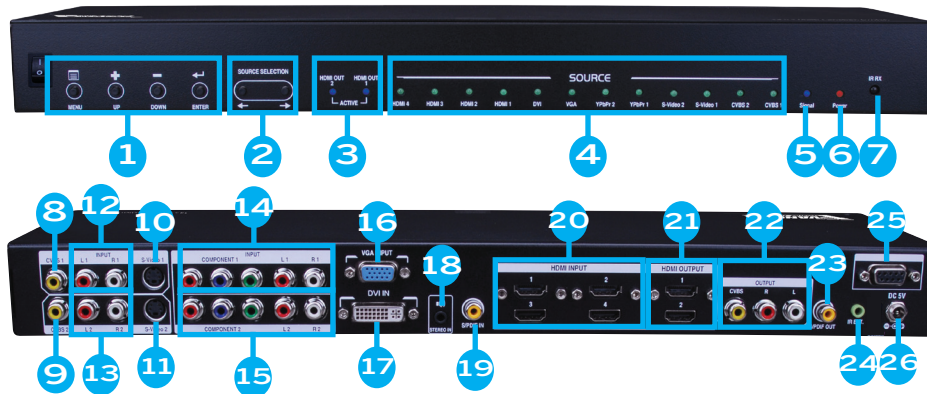
The 280595 12x3 Multi-Function Switch/Scaler offers the highest compatibility among composite, component, DVI, VGA, HDMI and S-Video to CVBS & HDMI in the market. This unique device supports analog and digital conversion and scaling. With the embedded advanced de-interlacer, interlaced video inputs such as component, composite and S-Video, can be further improved. The 280595 supports the insertion of stereo analog audio and S/PDIF inputs into HDMI output. This product was designed to ease the conversion among multiple video formats to common CVBS and HDMI formats.

### 12x3 Multi-Function Switch/Scaler

#### Part # 280595

- Allows the conversion of up to 12 multi-format inputs to 2 mirroring HDMI outputs and 1 Composite output
- Upscales standard definition/high definition sources to resolutions up to 720p or 1080p, with both HDMI outputs working simultaneously along choice of composite output - some VESA formats can be bypassed by using VGA and DVI-I ports
- Buffers, amplifies and equalizes the signal to ensure optimum transmission and reception over the length of the cable run without any loss in video/audio quality
- Inputs supported include: 1 x VGA source, 2 x S-Video source, 2 x Composite AV sources with LR audio, 2 x Component sources with LR audio, 4 x HDMI sources, 1 x DVI-I source, Stereo input for audio. S/PDIF input for digital audio
- HDMI Outputs feature bypass from either stereo input or S/PDIF input
- Features noise reduction and video enhancements when upscaling to 720p/1080p
- DVI-I supports both analog and digital formats with L/R and/or S/PDIF audio input
- Detached audio output by L/R and optical
- Delivers uncompressed digital video with zero signal loss
- Supports high definition resolutions up to 1080p
- Dual switching option: IR control with included remote and manual front panel control
- IR receiver included for IR extension
- Serial port for firmware update
- Power Supply: 5V 4A DC, UL Listed
- Dimensions: 17.25" (438.15mm) W x 1.75" (44.45mm) H x 4.75" (120.65mm) D

**12x3 Multi-Function Switch/Scaler**



**PANEL DESCRIPTIONS**

1. OSD Control Panel
2. Input Source Fast Switching
3. Output Status
4. Selected Source Indicator
5. Signal Indicator
6. Power Indicator
7. IR Sensor
8. CVBS1 Source
9. CVBS2 Source
10. S-Video1 Source
11. S-Video2 Source
12. Analog Audio1 Source (for CVBS1/S-Video2 Source)
13. Analog Audio2 Source (for CVBS1/S-Video2 Source)
14. YPbPr1 Source with Analog Audio
15. YPbPr2 Source with Analog Audio
16. VGA Source
17. DVI Source
18. Stereo Audio Source (for VGA/DVI Source)
19. S/PDIF Audio Source (for VGA/DVI Source)
20. HDMI1~4 Source
21. HDMI1&2 Output
22. CVBS Output with Analog Audio
23. S/PDIF Output
24. IR Extension
25. RS232 Control Port
26. +5V Power

**SPECIFICATIONS**

Input Video bandwidth .....	HDMI:225 MHz, DVI/VGA:165 MHz, Component: 74.25MHz
Output Video bandwidth.....	297MHz
Audio support.....	HDMI: bypass to HDMI output/ SPDIF output/ stereo output, SPDIF: bypass to HDMI output or SPDIF output, Stereo: bypass to HDMI output or stereo output
ESD protection .....	{1} Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge], {2} Core chipset — ±2kV
PCB stack-up .....	4-layer board [impedance control — differential 100W; single 50W]
Firmware update.....	Feasible via RS232 Port
CEC Channel .....	ByPass
Input TMDS signal.....	1.2 Volts [peak-to-peak]
Input DDC signal.....	5 Volts [peak-to-peak, TTL]
Input .....	2xYPbPr&L-R + 2xS-Video + 2xCVBS&L-R + 1x VGA + 1xDVI + 1xStereo + 1xSPDIF + 4xHDMI + 1xRS-232
Output.....	2x HDMI + 1xCVBS + 2xRCA + 1 SPDIF
YPbPr.....	3xRCA[Video] + 2xRCA[Audio] [female]
S-Video.....	9 pin S-Video [female]
CVBS .....	1xRCA[Video] + 2xRCA[Audio] [female]
VGA connector .....	HD-15 [15-pin D-sub female]
HDMI connector .....	HDMI [19-pin female]
RS-232 connector .....	9-Pin D-sub female
Power supply.....	5V 2A DC
Power consumption.....	10W
Operation temperature.....	0~40°C [32~104°F]
Storage temperature.....	-20~60°C [-4~140°F]
Relative humidity .....	20~90% RH [no condensation]