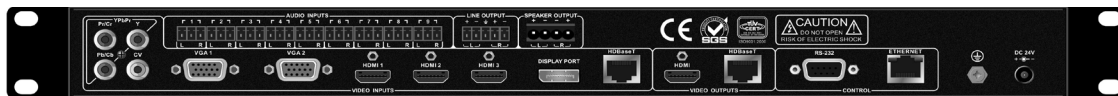


# Switcher/Scaler

## For audio/visual control



Front



Back

### DESCRIPTION

The Leviton Switcher/Scaler (SS0AV) is a high-performance scaler with 9 video input interfaces to switch or scale to HDMI/HDBaseT outputs. Use with the Sapphire™ Touch Screen for integrated control of lighting and AV systems.

### FEATURES

- (9) video inputs: x (1) Analog, (1) Component, (2) VGA, (3) HDMI, (1) DisplayPort, (1) HDBaseT
- (1) video output on HDMI or an HDBaseT port
- (9) analog audio inputs: unbalanced stereo audio, 20Hz-20KHz
- (1) balanced stereo line out or stereo speaker output with 2x20W@4Ω or 2x10W@8Ω, or HDMI audio out
- 8-level volume control per audio input, 100-level volume control for audio output
- Maximum input/output resolution up to WUXGA (1920 x 1200)
- Seamless audio and video switching—no black screen or fragments
- HDMI 1.3a, HDCP1.3, DisplayPort 1.1
- Audio can be mixed or separated from HDMI input and HDMI output
- EDID management for rapid integration of sources and displays
- Control method: front panel, RS-232, Ethernet, Sapphire Touch Screen
- Web interface for configuration

### APPLICATIONS

- Classrooms
- Conference rooms
- Demonstration & training rooms
- Command centers

# PRODUCT DATA

# LEVITON

## SPECIFICATIONS

PARAMETER		
<b>Composite Video(CV)/ Component Video(YPbPr)</b>	Gain	0dB
	Bandwidth	150MHz @ -3dB
	Standard	NTSC, PAL, SECAM
	Differential phase error	0.1°, 3.58-4.43 MHz
	Differential gain error	0.1% , 3.58-4.43 MHz
	Signal type	Composite video (CVBS), Component video (YPbPr/YCbCr)
	Interface	RCA female connector (4PIN) 1x (CVBS), 1x (YPbPr/YCbCr)
	Minimum/maximum level	Analog signal: -2V/+2V
	Impedance	75 Ω
	Echo loss	< -30dB @ 5MHz
<b>Simulation of VGA Video</b>	Gain	0dB
	Bandwidth	380 MHz
	Signal type	VGA
	Interface	DB15 female connector, 2 x VGA input
	Signal strength	0.63V p-p to 0.9 V p-p
	Impedance	75 Ω
	Echo loss	< -40dB@5MHz
	DC compensation	Maximum ± 5mV
	Supported resolution	640x480 @60;800x600 @60; 1024x768@60; 1280x720 @60;1280x1024 @60; 1600x1200@60; 1920x1080@60;1920x1200 @60
<b>HDMI Video</b>	Supported protocols	HDMI1.3a, DVI1.0, HDCP1.3
	Pixel bandwidth	225MHz
	Interface bandwidth	6.75Gbps(RGB:2.25 Gbps/per lane)
	Signal type	HDMI/DVI-D full digital T.M.D.S. Signal in HDMI 1.3a/DVI 1.0 Specification
	Interface	HDMI-A connector(Type A connector ),3 x HDMI input, 1 x HDMI output
	Minimum/maximum level	T.M.D.S. 2.9V/3.3V
	Impedance	100 Ω
	Input ED ID	Use system default EDID, (support terminal EDID mapping to input terminal)
	Maximum DC offset error	15mV
	Recommended maximum input distance	Less than 7m, at 1920x1080p@60 (recommended to use special HDMI wire with authentication like Molex TM)
	Supported resolutions	640x480@60, 800x600@60,1024x768@60, 1280x720@60, 1280x800@60,1280x960@60, 1280x1024@60, 1360x768@60,1366x768@60, 1400x1050@60, 1440x900@60,1600x1200@60, 1680x1050@60, 1920x1080@50,1920x1080@60, 1920x1200@60
<b>Display Port Video</b>	Interface	20-pin DP connector, standard,1 x display port input
	Supported protocols	Display port 1.1
	Highest transmission delay	500us
	Transmission bandwidth	Up to 10.8Gb/S
	Supported resolution	VGA(640x480); SVGA(800x600); XGA(1024x768); SXGA(1280x1204);UXGA(1600x1200); WUVGA(1900x1200)480;480P;720P;1080i;1080P; 576i;576P;720P;1080i50;1080P50;WXGA(1400x900); WSXGA(1680x1050);WUXGA(1920x1200)

# PRODUCT SPECIFICATIONS

**LEVITON**

## SPECIFICATIONS

PARAMETER		
<b>HDBase T Video</b>	Interface	RJ-45 female connector, 1 x HDBaseT input, 1 x HDBaseT output
	Supported protocols	Supports HDCP standard
	Max pixel clock	225MHz
	Impedance	100Ω
	Recommended maximum input distance	Less than 100m (with a Cat5 or Cat6 standard line wire)
	Supported resolution	640x480@60, 800x600@60,1024x768@60, 1280x720@60, 1280x800@60,1280x960@60, 1280x1024@60, 1360x768@60,1366x768@60, 1400x1050@60, 1440x900@60,1600x1200@60, 1680x1050@60, 1920x1080@50,1920x1080@60, 1920x1200@60
<b>Sound Signal</b>	Input/output interface	9 x 3-pin Phoenix connector /each way is with unbalanced audio input, 1x5 pins Phoenix connector /audio line out, 1 x 4-pin Phoenix connector /audio power amplifier output
	Gain	0 dB
	Frequency response	20Hz ~ 20kHz
	HD + Noise	0.05% @ 1 kHz (rated voltage)
	Signal-to-noise ratio	(S/N)>80dB
	Stereo channel crosstalk	>80dB @ 1kHz
	Common-mode-rejection ratio (CMRR)	>75dB @ 20Hz ~ 20kHz
	Signal type	Stereo (unbalanced connection audio)
	Impedance	Output: 50 Ω (unbalanced connection) Input: 10 Ω (un balanced connection)
	Max input level	+19.5dBu
	Gain error	±0.1dB @ 20Hz ~ 20kHz
<b>Control Types</b>	Button	Front panel, LCD status display
	Serial control interface	RS-232,DB9 female connector
	Baud rate and protocol	Baud rate: 115200, Data Bit:8, Stop Bit:1, No Parity Bit
	Serial control interface structure	2 = TX, 3 = RX, 5 = GND
	Ethernet control interface	RJ-45 female connector
	Ethernet control rate	Adaptive 10 M/100 M, full duplex or halfplex
	Ethernet control protocol	TCP/IP IP: 192.168.1.190, Port: 6666
	HDBase T remote control	HDBase T remote control via RS-232
<b>Specifications</b>	Power supply	24V DC Input Power, external power source required & included
	Power consumption	60W
	Temperature	-4 - 158°F (-20 - 70°C)
	Humidity	0-90%
	Dimensions	19.01" (483mm) L x 9.05" (230mm) W x 1.73" (44mm) H
	Weight	5.07lbs (2.3kg)
	Mean time between failures	30,000 special ops
	Listings	CE, ETL, cETL listed
	Rating	IP20
	Warranty	2 year warranty

Switcher/Scaler

**Leviton Manufacturing Co., Inc. Energy Management, Controls and Automation**

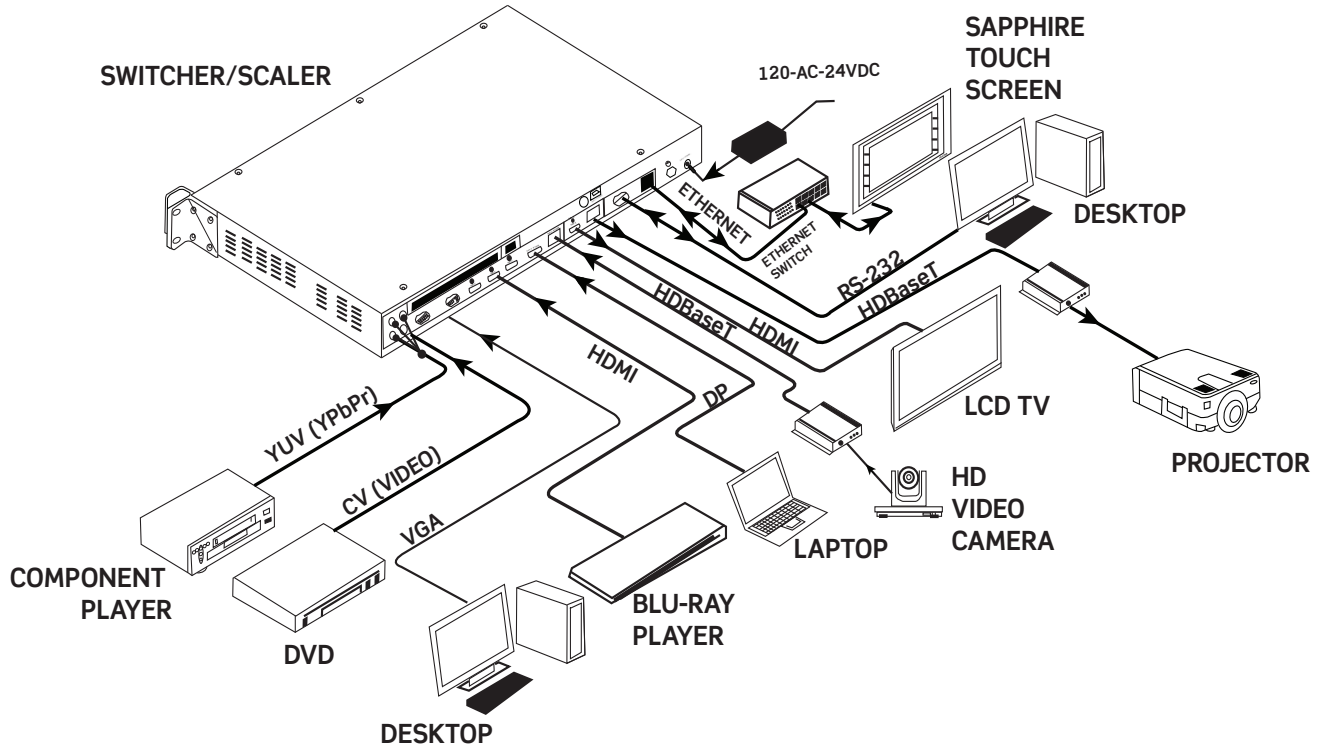
20497 SW Teton Avenue, Tualatin, OR 97062 **tech line** 800-959-6004 **fax** 503-404-5594

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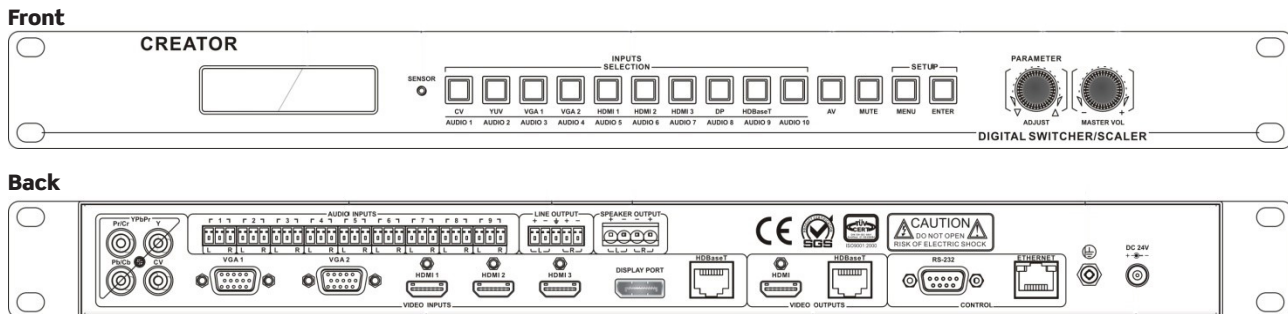
# PRODUCT SPECIFICATIONS



## SYSTEM DIAGRAM



## PRODUCT DIAGRAM



## ORDERING INFORMATION

CAT. NO.	DESCRIPTION
SS0AV-091	Switcher/Scaler (9) video inputs, (1) video output, HD15, HDBaseT; (1) HDMI and HDMT Output

### Leviton Manufacturing Co., Inc. Energy Management, Controls and Automation

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