SC-3H

Multi-Format Presentation Switcher with Display Control

- ■ Two HDMI inputs and 1 VGA input with 3.5mm Audio
- ■ Supports resolutions in 4K 30 (4:4:4) or 4K 60 (4:2:0)
- ■ Manual or automatic input selection based on video detection
- ■ Control via front panel buttons, optional external keypad, or RS-232
- ■ RS-232 port can control auxiliary devices (such as projector power on/off)
- ■ Manual or Automatic power control command.
- ■ EDID management
- ■ Supports VGA, HDMI, MHL (on HDMI #1), and DVI
- ■ Locking power supply connector

The SC-3H is a multi-format switcher with 2 HDMI and 1 VGA (with audio) inputs. The SC-3H provides an HDMI video output together with stereo analog audio output. HDMI inputs support virtually all PC and TV resolutions including 4K @ 30 and 4K @ 60 (4:2:0). The VGA and its associated audio inputs are converted to HDMI and scaled to 1080p for maximum compatibility with HDMI displays.

Affordably priced, the SC-3H provides a powerful way to add AV switching and control to any classroom, huddle room, or conference room.

The device can manually or automatically switch between the various video inputs. In auto input mode it scans the inputs in order to detect video on its inputs and automatically switches to the active input. If more than one input has video, the SC-3H can choose among them based on user definable priority tree.
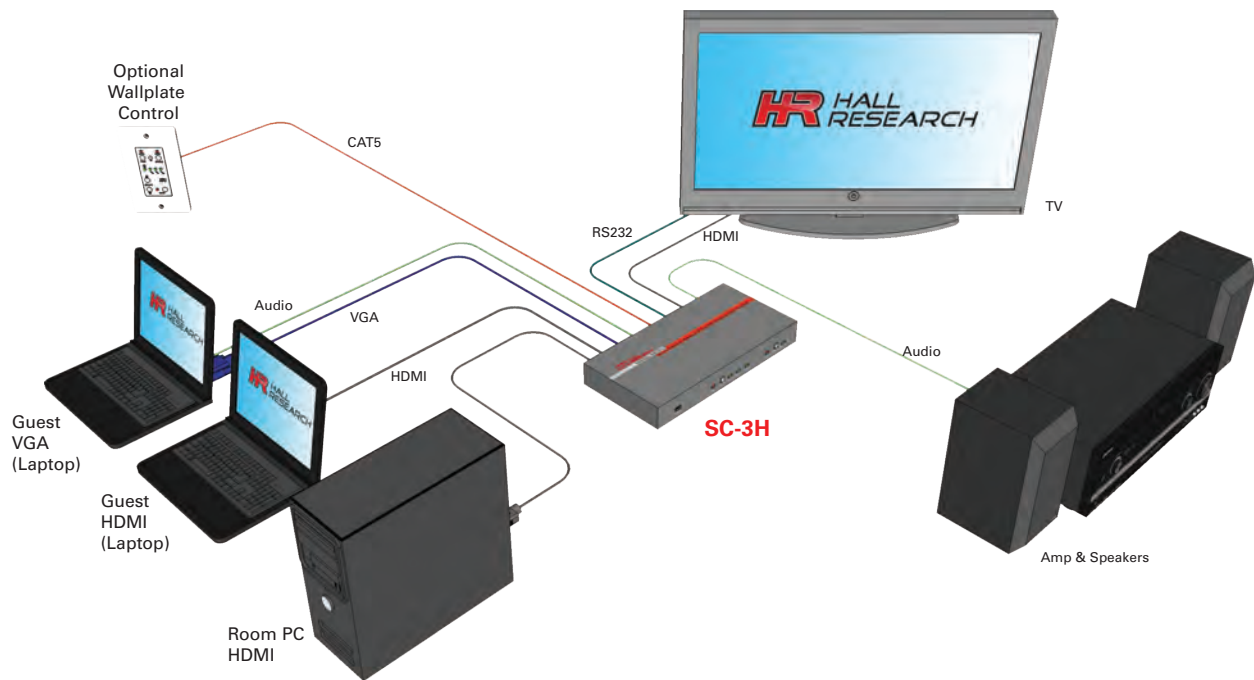
The device can also act as a controller to send serial RS232 commands to turn displays on and off. Users can upload power control commands for their display and when the SC-3H is turned on, it will send the "on command" to the display and upon turning the device off, an off command will be issued. The power commands can also function automatically. In Auto Power Command Mode, the unit will send out a power on command if there is video on the output, and if there is no video is being output, it will send a power off command to the display after a predetermined delay.

Normally the RS-232 port on the unit is acting as the "master" issuing commands to external devices, but this port can also be used to control the SC-3H. Please see Section 5 of the Manual for details.

To use the unit in manual mode, where power and inputs are selected manually, front panel buttons can be used. Alternatively, optional external single-gang wall-plate controllers can be connected to the SC-3H. They are SW3-UI and SW3-UI-VOL.

Full EDID management is provided for the HDMI inputs. By default the connected display's EDID is used for the HDMI inputs, but users have the ability to upload, emulate read, or download the EDID. A mini-USB port on the front panel is provided to configure the device via a free Windows™ GUI available from the SC-3H product webpage.

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Block Diagram

Specifications

Connectors:	(2) Locking HDMI INPUT
	(1) VGA INPUT
	(1) Locking HDMI OUTPUT
Standards:	DVI (single link)
	HDMI up to 12 bit color depth, 3D video HDCP 1.2
Signal Type:	TMDS
Resolutions:	DVI or VGA signal: VGA (640x480) thru WUXGA (1920x1200)
HDMI signal:	480i through 4K@30 Hz 4:4:4 or 4K@60 4:2:0
Audio Formats:	All HDMI Embedded Audio including: LPCM 7.1CH, Dolby TrueHD and
	DTS-HD Master Audio (32-192kHz sample rate).
	Analog audio output only supports two channel format.
RS-232:	(1) DB9M
	RS-232 Baud Rate: 9600, N, 8, 1 (factory default)
	Configurable at 1200, 2400, 4800, 9600, 19200, 38400, 57600, or 115200
USB:	(1) Mini-B
Power Supply:	100 VAC to 240 VAC, 47-63 Hz, External; 5 VDC
Temp/humidity:	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, non-condensing
Operating:	+32 to +122 °F (0 to +50 °C) / 10% to 90%, non-condensing
Typical DC Current Draw:	@5 VDC
	ON: 650-750 mADC
	OFF: ~400 mADC
Cooling:	Convection
Enclosure type:	Metal (Steel)
Product Dimensions:	1.25" H x 9.00" W x 4.3" D
	(32mm H x 229mm W x 109mm D)
	Depth excludes connectors
Product weight:	Model Only 1.3 lb
	Kit (shipping) 3.0 lb includes: SC-3H, power supply, power cord, USB cable, manual, and packaging
Vibration:	ISTA 1A in carton (International Safe Transit Association)
Safety:	CE
EMI/EMC:	CE, FCC Class A
MTBF:	90,000 hours (Calculated Estimate)
Warranty:	3 years parts and labor

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