

SWP123

PRESENTATION SWITCHER

FEATURES

- **Elegant Design Combines Three A/V Switchers and a Master Audio Switcher with Microphone Pre-Amplifier in One Product:**
 - 4x1 Composite Video + Stereo Audio Switcher
 - 4x1 Y/C Video + Stereo Audio Switcher
 - 4x1 VGA + Stereo Audio Switcher
 - Master Audio Switcher — Selects Video, Y/C, VGA or Microphone Audio Signal
- **450 MHz Video Bandwidth**
- **Blank Buttons** — Individually Blank the Video Signal and Mute the Audio Signal for Each Switcher
- **Audio Switcher Accepts Unbalanced Audio Signals and Provides Balanced or Unbalanced Output Signals**
- **A/V Volume Control and Mute for Master Audio Output**
- **Microphone Input with Adjustable Level and XLR Input Connector**
- **+24V Phantom Power for Condenser Microphones**
- **Microphone Talk Over** — Automatically Reduces A/V Audio Level Whenever a Signal is Present at the Microphone Input
- **Ergonomic Front Panel with Large Soft-Touch Rubber Buttons and Ample Room to Accommodate Input Labels**
- **Integrated Labeling System** — Switcher Faceplate Includes Attachment Posts to Hold Optional Engravable Name Plates to Clearly Identify Inputs
- **RS-232 / RS-422 / RS-485 Serial Control Capability**
- **IR Controllable** — Using the Optional CTL120 Infrared Remote Control
- **Internal Universal Power Supply with Double Fuse Operates with A/C Power Voltages Worldwide: 50 / 60 Hz; 90 – 260 VAC**
- **Switcher Rack Mounts in 2U Space with Integral Rack Ears**



SWITCHERS & MATRICES

The SWP123 presentation switcher combines three A/V switchers and a master audio switcher into one space-efficient, economical product.

Presentation System Applications

The SWP123 makes it easy to select among multiple composite video, Y/C video and VGA sources along with their associated stereo audio signals and route the desired signals to a presentation display like a data projector, plasma display or presentation monitor.

Production and A/V Routing Applications

The SWP123 may also be used as an extremely economical solution for small production suites, home theater installations or other A/V signal routing applications that would normally use three separate A/V switchers for composite video + stereo audio, Y/C video + stereo audio and VGA + stereo audio switching.

Superb Video Performance

Offering video bandwidth of 450 MHz, the SWP123 offers ample performance for VGA signals at the highest resolutions and refresh rates.

Audio-Follow-Video Switching

The composite video, Y/C video and VGA switchers each feature a companion four input stereo audio switcher that provides audio-follow-video switching capability for line level unbalanced stereo signals. Each switcher features a passive local output connector (no attenuation or volume control) that can be wired for unbalanced or balanced audio signals. The local output for each audio switcher is always active, regardless of the signal currently selected by the Master Audio Switcher.

Master Audio Switcher

This master audio switcher selects the between four audio signals: composite video audio signal, S-Video audio signal, VGA audio signal or the microphone input. The master audio output can be wired for balanced or unbalanced stereo audio output signal and features a variable output level. The master audio switcher features a volume control and mute button. The SWP123 also stores a unique audio trim level for each input that is automatically recalled when that input is routed to the master audio output. The input audio trim controls are useful to adjust for various audio input signal levels and also to compensate for the 6 dB gain change that occurs when converting from unbalanced to balanced audio. All audio functions can be controlled locally using the front panel buttons or remotely via serial commands or IR remote control.

Microphone Input

The SWP123 includes a high quality microphone preamplifier and features an XLR connector for easy connection to low impedance, balanced microphones. A rear panel switch engages +24V phantom power for condenser microphones. Front panel controls are provided for Mic Level as well as a button to activate the Microphone Talk Over function.

Microphone Talk Over

The Microphone Talk Over feature is ideal for restaurants, entertainment venues, presentation systems and other applications that require voice announcements to be heard over a background audio source. When microphone talk over is activated, the microphone signal is mixed with the selected audio source. The currently selected audio source (composite / S-video / VGA) is automatically attenuated when ever a signal is present at the microphone input and returned to a normal level when the microphone input is inactive. The Talk Over Threshold Adjust Control determines the input signal level required to engage the talk over function. Located on the rear panel, this control can be adjusted to optimize the talk over operation to accommodate variables such as microphone output level, voice volume, or ambient noise level.

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Robust Remote Control Capability

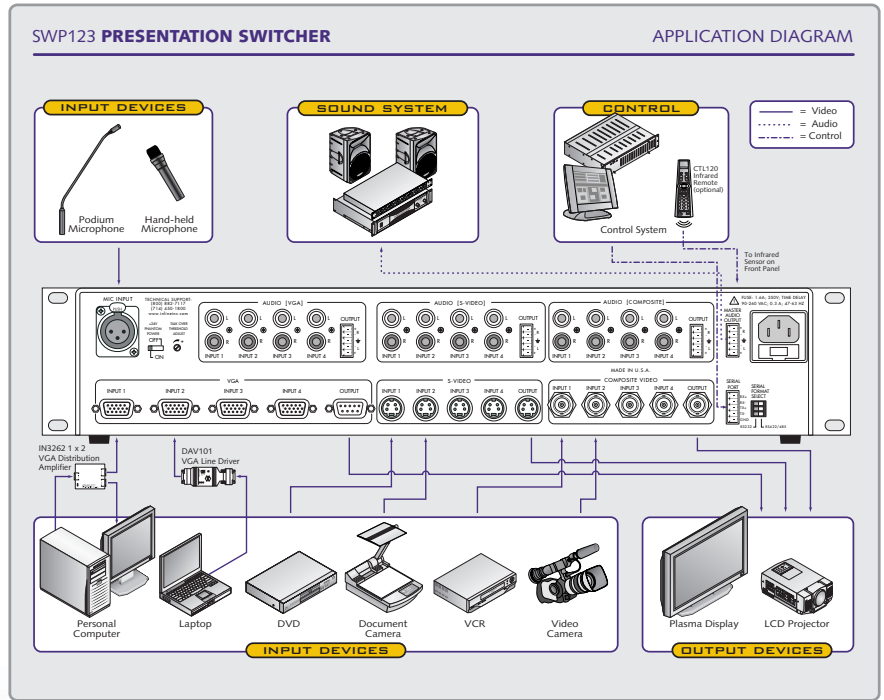
All switching and volume functions can be controlled remotely using serial commands. The control port is compatible with RS-232, RS-422 and RS-485 protocols and offers fast communication speeds with advanced control signal buffering for enhanced reliability. The SWP123 uses the new **INLINE** serial control protocol which provides fast, easy programming and powerful control options like individual unit addresses.

Powerful Control Software

The **INLINE** control software included with the SWP123 offers an intuitive graphical interface for effortless control of all switcher functions using a PC. **IP Server Software** is also included, providing comprehensive control of the SWP123 over a LAN, WAN or the Internet. For IP control applications, the **INLINE** control software is installed on a local computer (Client) while the **IP Server Software** is installed on a remote computer (Server) located near the SWP123. A serial control cable is then connected between the server computer's serial port and the SWP123 serial port.

IR Remote Control

All switching and volume functions can be controlled via infrared commands using the optional CTL120-3 infrared remote control.



SPECIFICATIONS

VIDEO	AUDIO	AUDIO	GENERAL
<p>Gain: Unity</p> <p>Bandwidth: 450 MHz @ -3dB with .7V p-p input signal</p> <p>VIDEO INPUT Number / Signal Type / Connector: (4) Composite Video: BNC male (4) S-Video: 4-Pin Mini DIN female (4) VGA / Component (RGBHV / RGBS / RGsB / R-y B-y y): 15-Pin HD female</p> <p>Minimum / Maximum levels: Analog video, 1.5 Vp-p max.</p> <p>Impedance: 75 Ω</p> <p>VIDEO OUTPUT Number / Signal Type / Connector: (1) Composite Video: BNC male (1) S-Video: 4-Pin Mini DIN female (1) VGA / Component: 15-Pin HD female</p> <p>Sync Signals: TTL</p>	<p>Frequency Response: 10 Hz to 175 KHz - 3dB 20 Hz to 20 KHz ± 0.05dB</p> <p>THD+Noise: 0.01% (1.0Vp-p @ 1 KHz)</p> <p>S/N Ratio: 87.0 dB</p> <p>AUDIO INPUT Number / Connectors / Signal Type: Composite Audio: (4) Pairs RCA Female for Unbalanced Audio</p> <p>S-Video Audio: (4) Pairs RCA Female for Unbalanced Audio</p> <p>VGA Audio: (4) Pairs RCA Female for Unbalanced Audio</p> <p>Microphone: (1) XLR Female for Balanced Audio</p> <p>Impedance: Composite / S-Video / VGA Audio: 20 K Ω Impedance: Microphone: 600 Ω</p>	<p>AUDIO OUTPUT Number / Connectors / Signal Type: Composite Audio: (1) 5-Pin Captive Screw Terminal for Balanced / Unbalanced Audio</p> <p>S-Video Audio: (1) 5-Pin Captive Screw Terminal for Balanced / Unbalanced Audio</p> <p>VGA Audio: (1) 5-Pin Captive Screw Terminal for Balanced / Unbalanced Audio</p> <p>Master Audio: (1) 5-Pin Captive Screw Terminal for Balanced / Unbalanced Audio</p> <p>CONTROL Connector: 5-Pin Captive Screw Terminal Serial Protocol: RS-232 / RS-422 / RS-485 Baud Rate: 1,200 to 38,400 bps</p>	<p>Power Supply: 90-260VAC; 47-63 Hz</p> <p>Shipping Weight: 7 lbs. / 3.2 kg</p> <p>Product Weight: 5.5 lbs. / 2.5 kg</p> <p>Dimensions (Excluding Rack Mount Flanges): 3.5" x 17.25" x 5.45" / 8.9cm x 43.8cm x 13.8cm</p> <p>MTBF: 35,000 Hours</p> <p>Storage Temperature / Humidity: -40° to 158° (-40° to 70° C) / 10% to 90% non-condensing</p> <p>Ambient Operating Temperature / Humidity: 32° to 113° (0° to 45° C) / 10% to 90% non-condensing</p> <p>Regulatory Approvals: UL1950, CAN/CSA-22.2 No.950, Third Edition CE: EN55022 (1987), EN50081-1 (1991), EN50082-1 (1992 and 1994), EN60950-92</p> <p>INCLUDED ACCESSORIES</p> <p>IN9339 Adjustment Tool ICS100 INLINE Control Software</p>

ORDER INFORMATION

- SWP123-1** 4x1 Composite Video / 4x1 S-Video / 4x1 VGA Switcher (No Audio Functions)
- SWP123-2** 4x1 Composite Video / Stereo Audio Switcher + 4x1 Y/C / Stereo Audio Switcher + 4x1 VGA / Stereo Audio Switcher + Master Audio Switcher with Mic Input

CTL120-3 Infrared Remote Control for SWP123
Switcher & Matrix Accessories