Extron Electronics INTERFACING, SWITCHING AND DISTRIBUTION



Universal projector control

Room control

IR learning capabilities

Five inputs, one output

Live level audio output

24 watt audio amplifier

250 MHz (-3dB) video bandwidth

Remote control options

Multiple mounting options



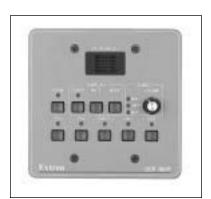
APPLICATIONS

Extron's System 5cr Plus is a five input, one output A/V switcher that combines the most popular features of the System 5cr with these newly added, flexible features: easier to use IR learning, the option to separately set line-out audio output at a fixed level, and one input conveniently configurable for composite video, S-video, or RGBHV. The System 5cr Plus provides an all-in-one, inexpensive solution for projector & room control of smaller-scale A/V installations such as conference rooms or boardrooms. Designed for use with LCD, DLP, or plasma displays, the System 5cr Plus learns and manipulates IR signals from the display-supplied remote control. This enables switching of computer-video, S-video, and composite video signals to that display. The System 5cr Plus offers room control capability so room lighting, screen settings, and other device functions may be controlled through the System 5cr Plus's room function via an internal relay. By providing projector control, room control, universal compatibility with displays, and system audio capabilities, the System 5cr Plus performs functions that would typically require up to four different products in one integrated solution.

The System 5*cr* Plus provides a total of five inputs—two for RGBHV, two for composite or S-video, and one that is configurable for composite video, S-video, or RGBHV. One of the RGBHV inputs, a 15-pin HD connector, is located on the front panel for easy access. This makes it convenient to connect a laptop or computer directly—no need to access the back of the switcher.

The System 5cr Plus provides user-friendly IR learning capabilities. Using the IR receiver, it is able to learn remote control functions, so the switcher may be quickly and easily configured for the specific display being used.

There are two ways to output audio from the System 5cr Plus. Line-out audio may be output on a 3.5 mm captive screw connector, or amplified audio may be output on spring-loaded connectors. The System 5cr Plus's internal, 24 watt (12 watts per channel @ 4 ohm load) audio amplifier produces amplified audio output for use of non-powered speakers. This is a useful advantage over using powered speakers which typically requires



SCP 100P CONTROL PAD

the installation of a power outlet by an electrician, adding considerably to installation costs. The System 5cr Plus offers a configuration mode for selecting audio control methods. Line-out audio output may be separately set at a fixed level or simultaneously adjusted with the power amp output.

APPLICATIONS (Cont.)

System switcher control is provided via front panel operation, included IR 40 remote control, or optional SCP 100P hardwired control pad. The front panel buttons control video and audio input settings; display functions such as power, mute, video modes; and room controls, such as lowering or raising a display screen or powering lights on or off. The IR 40 or SCP 100P duplicates the front panel functions. Two auxiliary ports are provided for connection of SCP 100P control pads. A SCP 100P may be mounted in a wall, podium, or table and is available in grey, black, or white to blend into the room's environment.

FEATURES

- Universal projector control The System 5cr Plus provides universal projector control, via IR learning capabilities, which allow it to operate with any IR-controllable display. Extron also offers downloadable, pre-configured drivers for various projectors, such as Barco, EIKI, Christie Digital, Epson, JVC, InFocus, Mitsubishi, NEC, Panasonic, Pioneer, Plus, Proxima, Sanyo, Sharp, Sony, and Toshiba. Visit www.extron.com for a current list of available drivers.
- Room control Room lighting, screen settings, and other device functions may be controlled through the System 5cr Plus's room function, via an internal relay. The relays may be controlled through the front panel, IR 40 remote, or SCP 100P control pad.
- Remote IR learning capabilities The System 5*cr* Plus learns and manipulates IR remote control signals via the IR receiver. The IR receiver is a built-in, bi-directional device capable of learning new functions and quickly configuring inputs.
- Audio Equipped with both a line-out audio output for each of the five audio inputs and an amplified 24 watt (12 watt per channel @ 4 ohm load) output. Line-out audio output and power amp output may be adjusted together, or the line-out audio may be separately set at a fixed level.
- Five inputs/one output Two computer inputs that accept RGBHV (one on the front panel for easy access), two video inputs that accept composite video or S-video, and one that is configurable for composite video, S-video, or RGBHV.
- Bandwidth 250 MHz (-3dB) video bandwidth maintains signal integrity.
- Rack-mountable Housed in a 1U high, one rack width enclosure. Mounting brackets included for mounting in a rack or under a table.

SPECIFICATIONS

Video input		Audio input	
Number/signal type	2 RGBHV/RGBS/RGsB	Number/signal type	5 stereo balanced/unbalanced
r tumber/signar type	computer video		1 3.5 mm mini stereo jack (PC 1)
	1 RGBHV/RGBS/RGsB	Comiectors	4 3.5 mm captive screw
	computer video or S-video or		terminal, 5 pole
	composite video	Impedance	
	2 S-video or composite video	impedance	50 kohms, unbalanced
Connectors		Minimum level	
Connectors	(RGB computer video)	Maximum level	
	2 x 5 BNC female (RGB computer	Waxiii ievei	unbalanced) @ stated %THD+N
	video; RGB/S-video/composite	Input gain adjustment	to +6.5dB, adjustable per input
	video)	Audio throughput	to 10.5ab, adjustable per input
	2 x 2 BNC female (S-video or	Gain	-78dB to ±40dB
	composite video)	Frequency response	
Nominal level(s)		THD + Noise	< 0.1% @ 1 kHz at rated
Minimum/maximum level(s)			maximum output drive
Impedance		S/N	
Horizontal frequency		Adjacent input crosstalk	
Vertical frequency		Stereo channel separation	
Return loss	/5dR @ 5 MH ₂	CMRR	
Maximum DC offset		Audio output — line out	20 112 to 20 KHZ
Video throughput	. 1.) (Number/signal type	1 stareo balanced/unbalanced
Gain	Unity	Connectors	
Bandwidth		Connectors	terminal, 5 pole
Frequency response		Nominal output level	
Differential phase error	0.01° 0 to 10 MHz	Maximum output level	
Differential gain error	0.01% 0 to 10 MHz	Impedance	
Crosstalk		impedance	100 ohms, balanced
	JOUD @ J WII IZ	Drive (H; 7)	> +21dBu, balanced or unbalanced
Video output Number/signal type	1 DCRHV/DCRS/DCaR	Dilve (111-Z)	at stated %THD+N
Number/signar type	or 1 S-video, or 1 composite video	Drive (600 ohm)	
Connectors	1 x 5 RNC famile	Drive (000 01111)	unbalanced at stated %THD+N
Connectors	(RGB computer video)	Audio output — power amp	unbalanced at stated /0111D+1V
	1 x 2 BNC female (S-video)	Number/signal type	1 stareo balanced/unbalanced
	1 x 1 BNC female	Connectors	
	(composite video)	Connectors	terminals, L/R, +/-
Nominal level		Protection	
Impedance		1 Totection	open circuit, overload
Return loss	32dR @ 5 MH ₂	Drive (full power out)	At less than 0.5% THD
DC offset		Drive (run power out)	from 20-20kHz:
Switching type			24 watts; 12 watts per channel
Sync Sync	Triple action		@ 4 ohm load
Input type	RGBHV RGBS RGsB		12 watts; 6 watts per channel @
Output type	RCBHV RGBS RGsB		8 ohm load
Standards		Control/remote — switcher	o omi load
	(S-video and composite video)		RS-232, 9-pin female D connector
Input level			9600, 8-bit, 1 stop bit, no parity
Output level		Serial control	7000, 0 bit, 1 stop bit, no parity
Input impedance		pin configurations	2 = TX, $3 = RX$, $5 = GND$
Output impedance		Extron remote key pad control	
Max input voltage	. 5V p-p	pad condo	connectors, 5-pole (Aux ports)
Max. propagation delay		IR controller module	
	Positive or negative (follows input)	ii controller module	frequency compatibility
		Program control	
		0 0	for Windows
			Extron's Simple Instruction
			Set TM – SIS TM

SPECIFICATIONS (Cont.)

Cont	trol — room relay	
	Number/type	1 momentary or latching
	Connectors	
	Contact rating	25V, 1 A
Cont	trol — projector	
	Projector control port	1 3.5 mm captive screw connector, 5 pole
Gene	eral	. 1
	Power	100VAC to 240VAC, 50/60 Hz, 70 watts, internal, auto-switchable
	Temperature/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
Cont	trol — projector Projector control porteral Power	1 3.5 mm captive screw connector, 5 pole 100VAC to 240VAC, 50/60 Hz, 70 watts, internal, auto-switchable 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%,

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OPTIONAL ACCESSORIES

IR 40 remote control	70-064-02
SCP 100P control pad, grey	60-331-01
SCP 100P control pad, black	
SCP 100P control pad, white	
Display power sensor	60-207-01
IR broadcaster	

APPLICATION DIAGRAM

