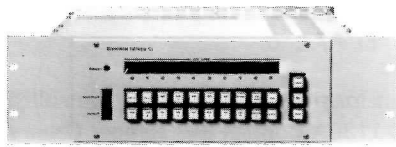


Solid-State Video and Audio Switching Equipment



SVA-100B and SAA-110A

The Series 10 Solid-State Video and Audio Switching Equipment provides 10-input/10-output high quality vertical-interval monochrome or color video switching and on-air quality audio switching. Each 10 x 10 matrix is housed in a 5¼"H x 14½"D x 19" rack-mount chassis (13.34 x 36.83 x 48.26 cm) which includes power supply.

The control system is microprocessor-based and allows local and remote operation. Remote master and individual output bus control panels are available to operate over a single coaxial cable control line. Up to four levels of switching, 1 video and 3 audios as an example, can be controlled locally and/or remotely. A total of 15 remote control panels may be used to control a system.

Models SVA-100B, SVA-101B, SAA-110A and SAA-111A include 10 Form A tally relays and facilities to control the slave matrices, Models SVA-102B and SAA-112A.

Notice: Series 10 equipment has been tested to show compliance with FCC Rules, Part 15, Subpart J, for Class A computing devices.

SVA-100B Video Switcher

Video Switcher, self-contained, for local control. 10 inputs, 10 dual outputs with tally and regulated power supply.

Inputs: 10, high impedance looping, 1.5 V p-p max.

Outputs: 10 dual 75 ohm source terminated

Frequency Response: 100 kHz to 12 MHz ± 0.5 dB, ± 1 dB to 20 MHz (1 MHz ref.)

Tilt: Less than 1% line and field

Crosstalk: Better than 60 dB @ 5 MHz (worst case)

Gain: Adjustable to unity

Differential Gain: 0.25% with 1 V p-p output, 10-90% APL @ 5 MHz

Differential Phase: 0.25° with 1 V p-p output, 10-90% APL @ 5 MHz

Differential Delay: $\pm 1^\circ$ @ 3.58 MHz, any input to one output

Path Length: 21 ns nominal

Vertical-Interval Switching Drive: Composite sync, 4 V p-p nominal, high impedance looping

Hum and Noise: 70 dB RMS below 1 V p-p

Switching Time: Less than 5 μ s

Tally: Form A contact per input, 28 V dc @ 0.5 A max. 25 pin "D" connector with mate

Signal Connectors: BNC

Power Required: 115/230 V ac $\pm 10\%$, 50/60 Hz

Net Weight: 20 pounds (9.07 kg)

SAA-110A Audio Switcher

Audio Switcher, self-contained, for local control. 10 inputs, 10 outputs with tally and regulated power supply.

Inputs: 10 balanced high impedance bridging, +24 dBm max. @ 600 ohms, +30 dBm @ 150 ohms

Common Mode Rejection: 60 dB @ 60 Hz

Outputs: 10 balanced low impedance with short-circuit protection, +24 dBm max. with 600 ohm load, +30 dBm max. with 150 ohm load

Frequency Response: 30 Hz to 15 kHz ± 0.5 dB

Harmonic Distortion: 0.1% @ 15 kHz +8 dBm in/out; 0.5% @ 15 kHz max. in/out

Hum and Noise: -75 dBm max.

Crosstalk: 80 dB @ 15 kHz (worst case) below max. output

Gain: Adjustable to unity

Tally: Form A contact per input, 28 V dc @ 0.5 A max. 25 pin "D" connector with mate

Signal Connectors: Screw terminals

Power Required: 115/230 V ac $\pm 10\%$, 50/60 Hz

Net Weight: 20 pounds (9.07 kg)

**SVA-101B Video Switcher**

Video Switcher, same as SVA-100B but for remote control operation only. Control by single coaxial comm line. Requires remote control panel(s) options shown below.

SVA-102B Video Switcher

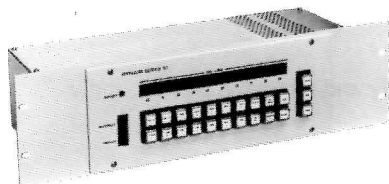
Video Switcher, same as SVA-101B but for slave control only. Controlled from switcher control bus only. (Model CC-1130A Control Bus Jumper Cable Assembly not included.) Tally not provided.

SAA-111A Audio Switcher

Audio Switcher, same as SAA-110A but for remote control operation only. Control by single coaxial comm line. Requires remote control panel(s) options shown below.

SAA-112A Audio Switcher

Audio Switcher, same as SAA-111A but for slave control only. Controlled from switcher control bus only. (Model CC-1130A Control Bus Jumper Cable Assembly not included.) Tally not provided.

**SCA-120A Master Remote Control Panel**

Master Remote Control Panel, rack mounting. For remotely controlling all 10 outputs of video and/or audio switchers.

Status: 7-segment LED readouts

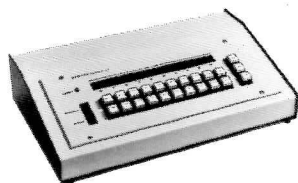
Comm Line: Single coax serial data

Control Connector: BNC

Power Required: 115/230 V ac $\pm 10\%$, 50/60 Hz

Size: 5 $\frac{1}{4}$ "H x 6 $\frac{1}{2}$ "D x 19" rack mount (13.34 x 16.51 x 48.26 cm)

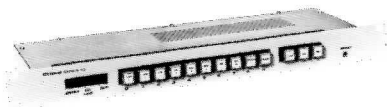
Net Weight: 4 pounds (1.81 kg)

**SCA-122A Master Remote Control Panel**

Master Remote Control Panel, desk top use. Same as SCA-120A except for housing.

Size: 3 $\frac{1}{2}$ "H x 9"D x 14-1/8"W (8.89 x 22.86 x 35.88 cm)

Net Weight: 3 $\frac{1}{2}$ pounds (1.59 kg)

**SCA-130A Single Bus Remote Control Panel**

Single Bus Remote Control Panel, rack mounting. For remotely controlling 1 output of video and/or audio switchers.

Status: 7-segment LED readouts

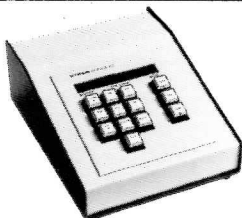
Comm Line: Single coax serial data

Control Connector: BNC

Power Required: 115/230 V ac $\pm 10\%$, 50/60 Hz

Size: 1 $\frac{3}{4}$ "H x 6 $\frac{1}{2}$ "D x 19" rack mounting (4.45 x 16.51 x 48.26 cm)

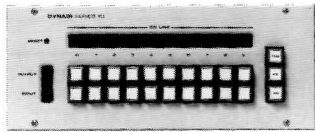
Net Weight: 3 pounds (1.36 kg)

**SCA-131A Single Bus Remote Control Panel**

Single Bus Remote Control Panel, desk top use. Same as SCA-130A except for housing.

Size: 3 $\frac{1}{2}$ "H x 9"D x 6 $\frac{3}{4}$ "W (8.89 x 22.86 x 17.15 cm)

Net Weight: 2 $\frac{1}{2}$ pounds (1.13 kg)



CP-1100A Basic Master Control Panel Assembly

Basic Master Control Panel Assembly for conversion of an existing SVA-101A, SVA-101B or SAA-111A to local control and/or local status operation.

BP-1109A Blank Panel

Blank Panel for conversion of SVA-100A, SVA-100B or SAA-110A to remote or slave control operation.

CC-1130A Switcher Control Bus Jumper Cable Assembly

Switcher Control Bus Jumper Cable Assembly for control of slave matrices, Models SVA-102B and/or SAA-112A from SVA-100B or SAA-110A. Length 24 inches (61 cm).

MB-1120A Rack-Mounting Chassis

Rack-Mounting Chassis with power supply for housing CP-1100A. For conversion of existing remote master control to rack mount configuration.

MB-1121A Desk Top Chassis

Desk Top Chassis with power supply for housing CP-1100A. For conversion of existing master control to remote desk top configuration.

TC-260A 75 Ohm BNC Termination Plug

75 Ohm BNC Termination Plug for terminating looping video inputs.

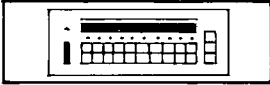
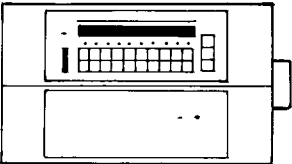
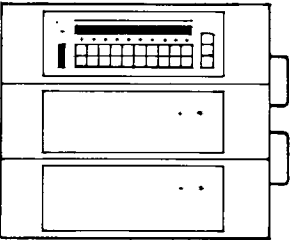
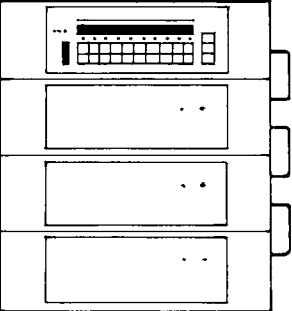
NOTE: Series 10 products may be combined to accommodate a variety of system applications.

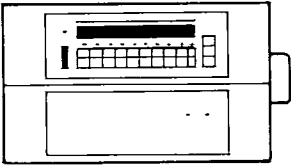
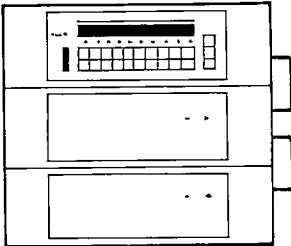
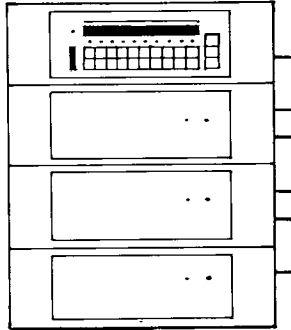
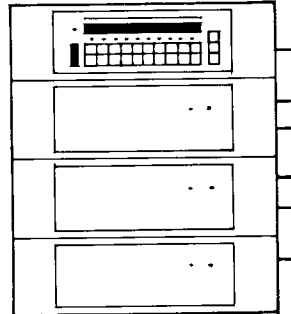
Video and audio units may be used together as audio-follow-video switchers, and audio units can be used with the video switchers for time code switching. Three video switchers can be combined to form an RGB switching system.

Various configurations are shown on pages 4 and 5. Except for the CC-1130A Control Bus Jumper Cable Assembly, other interconnecting cables and terminations are not shown.

SWITCHING EQUIPMENT

SERIES 10 (cont.)

SERIES 10 TYPICAL SYSTEM ORDERING INFORMATION					
FUNCTION REQUIRED	EQUIPMENT CONFIGURATION	COMPONENTS	FOR EACH REMOTE MASTER CONTROL	FOR EACH REMOTE BUS CONTROL	REMOTE CONTROL ONLY OPTION
VIDEO ONLY		SVA-100B	RACK MOUNT SWITCHER CONTROL SCA-120A	RACK MOUNT BUS CONTROL SCA-130A	FOR REMOTE CONTROL WITHOUT LOCAL STATUS AND CONTROL
AUDIO ONLY	RACK SPACE 5 1/4" (13.34 cm)	SAA-110A			
VIDEO, AUDIO FOLLOW	 RACK SPACE 10 1/2" (26.67 cm)	SVA-100B SAA-112A CC-1130A	OR	MODEL NUMBERS CHANGE SVA-100B TO SVA-101B OR SAA-110A TO SAA-111A	
VIDEO, DUAL AUDIO FOLLOW (EITHER AUDIO CAN BE USED FOR TIME CODE)	 RACK SPACE 15 3/4" (40 cm)	SVA-100B 2 EA. SAA-112A 2 EA. CC-1130A			
VIDEO, DUAL AUDIO FOLLOW, TIME CODE	 RACK SPACE 21" (53.34 cm)	SVA-100B 3 EA. SAA-112A 3 EA. CC-1130A	DESK-TOP SWITCHER CONTROL SCA-122A	DESK-TOP BUS CONTROL SCA-131A	

SERIES 10 TYPICAL SYSTEM ORDERING INFORMATION (cont.)					
FUNCTION REQUIRED	EQUIPMENT CONFIGURATION	COMPONENTS	FOR EACH REMOTE MASTER CONTROL	FOR EACH REMOTE BUS CONTROL	REMOTE CONTROL ONLY OPTION
DUAL AUDIO ONLY	 <p>RACK SPACE 10½" (26.67 cm)</p>	SAA-110A SAA-112A CC-1130A			
R.G.B. VIDEO	 <p>RACK SPACE 15¾" (40 cm)</p>	SVA-100B 2 EA. SVA-102B 2 EA. CC-1130A			
R.G.B. MONO VIDEO	 <p>RACK SPACE 21" (53.34 cm)</p>	SVA-100B 3 EA. SVA-102B 3 EA. CC-1130A			
R.G.B. VIDEO AND AUDIO	 <p>RACK SPACE 21" (53.34 cm)</p>	SVA-100B 2 EA. SVA-102B 1 EA. SAA-112A 3 EA. CC-1130A			

SAME AS PAGE 4