



Operation/Reference Guide

AVS-SL-PR-0401-0601

Solecis Presentation Switcher
4x1 RGBHV, 6x1 SVID, 10x1 Stereo, CP



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Safety Instructions

Overview

Please read these instructions before using your Procon switcher. Failure to comply with these instructions could result in fire, electrical shock, personal injury, death, or damage to the equipment.

Power Source

Use only a three-wire grounding type source. The power source should not exceed 264VAC. Do not remove under any circumstances the ground wire.

Power Cord

Use only the cord shipped with the unit. Do not use the cord if it has become damaged or frayed. Contact your Procon dealer or call Procon if you need to replace the power cord.

Grounding

The interface is grounded through the grounding conductor on the power cord. To avoid electric shock plug the power cord into a properly wired receptacle. Do not defeat the purpose of the grounding-type plug.

Fuse

For protection against the risk of fire use only a fuse of the same rating and type.

Liquid Spills

Do not set drinks on top of the unit or immerse the unit in liquid.

Do Not Disassemble

The switcher contains no user serviceable parts. All servicing must be performed by a qualified service technician.

For Safety Reasons

- Do not place the unit on an unstable surface.
- Do not use near water or sources of heat.
- Use only recommended attachments.
- Use the correct power supply as indicated on the unit.
- Unplug the unit from the mains before and refer to a qualified technician if:
 - the power cord has become damaged
 - liquid has been spilled or it has been exposed to rain or water
 - it does not operate correctly
 - it has been dropped or the cabinet damaged.

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Overview

The Solecis AVS-SL-PR-0401-0601 Presentation Switcher (FG1330-2011-01) combines switching of PC, computer, video and audio for presentation and conference rooms, home cinema, AV Rental Companies and any environment where a number of mixed source types need to be displayed.

The AVS-SL-PR-0401-0601 features a total of ten inputs and a programmable serial output for controlling projectors, plasma displays and other display devices.



FIG. 1 Solecis AVS-SL-PR-0401-0601 Presentation Switcher

Product Specifications

AVS-SL-PR-0401-0601 Specifications	
RGB	
RGB Inputs	4
Connector:	HD D15 socket
Level:	Analog
Max Level:	1V p-p
Impedance:	75 ohm
Sync Input	
Type:	Analogue or TTL
Max Level:	5V p-p
Impedance:	75 ohm
RGB Video Bandwidth:	250MHz -3dB
RGB Return Loss:	-38dB@10MHz, -20dB@100MHz
Adjacent Input Crosstalk:	-80dB@10MHz, -70dB@100MHz
RGB Outputs	
Number:	2
Connectors:	HD D15 socket
Level:	Analog
Gain:	Unity
Impedance:	75 ohm

AVS-SL-PR-0401-0601 Specifications (Cont.)	
Sync Output	
Level:	TTL
Impedance:	75 ohm
Video	
Video Inputs:	6 YC or Composite
Connector:	Phono/RCA/Cinch 4Pin Din S-Video
Level:	Analogue
Max Input:	1V P-P
Impedance:	75 Ohm
Bandwidth:	50MHz -3dB
Return Loss:	-30dB@1MHz, -22dB@5MHz
Differential Phase Error:	0.05%
Differential Gain Error:	0.03%
Input Crosstalk:	-60dB@1MHz
Video Output:	1-YC, 2-Composite
Connector:	Phono/RCA/Cinch 4Pin Din S-Video
Level:	Analogue
Gain:	Unity
Audio	
Audio Inputs:	10
Connector:	Phono/RCA/Cinch Phoenix
Type:	Stereo Unbalanced Analogue
Max Level:	2V P-P
Impedance:	47K
Frequency Response:	20-50 KHz
Audio Output:	2
Connector:	Phono/RCA/Cinch
Type:	Stereo Unbalanced and Balanced Analogue
Attenuation:	0 to -78dB
Impedance:	600 Ohm
Control	
Type:	RS232 Send and Receive, Front Panel
Connector:	Rewirable
Protocol:	Baud Rate-9600, Data Bits-8, No Parity, Stop Bits-1
Address:	00 – FF software programmable
Input:	RS232
Serial Output:	Programmable Protocol
Type:	Power On/Off, RGB Input, Composite Input and YC Input
Audio Breakaway:	Available through RS232 command
Power:	110 to 240V auto-switching
Connector:	IEC
Case:	2U Rack Mounting x 160mm
Accessories:	IEC Mains Lead, Programming Software
Approval:	CE

Connections

Typical Installation For Use With a Projector

Connect the RGB, Video and Audio sources to the Input sockets on the rear panel of the unit.

- The RGB/Video inputs are 75 ohm terminated and the audio inputs 47Kohm terminated.
- The RGB/Video and audio outputs are fully 75 ohm and 600 ohm driven respectively for connection to long cable runs.
- It is imperative that the input sources are fully compatible with the display and sound devices.

Video Connections

There are 4 PC inputs and 6 video inputs.

Two outputs are available for PC and two outputs for Composite Video and S-video. The Video Inputs maybe either Composite Video, S-Video, or a combination of both.



Since the switcher now auto-senses between the Composite and S-Video inputs, the dip switches have no effect unless you are using the Device Serial Output. If you are using the Device Serial Output, dip switches 1 to 6 must be set to match the incoming source type on their corresponding inputs.

The projector or display device should be switched to match the Source type outputted.

If you are using the serial output, it is also necessary to configure the unit with Solecis DCS. Consult the Solecis DCS Quick Start Guide for more information.

Audio Connections

One unbalanced output is available on Phono (RCA) connectors and one balanced output is available on phoenix connectors.

Power Up

Connect a Mains Source (110 to 240V) to the 2010 switcher.

- The Blank Button will illuminate.
- If any Source is connected to Inputs 1 of the PC and Video groups then Sync only will be present on the output.

Operation

Front Panel

Source Selection

To select a Source press the Button corresponding to the numbered Input.

The button will illuminate. A PC input will be routed to the PC output sockets.

A selected Video Input will also be routed to its respective Composite or S-Video output.

If a PC input is selected then the last selected video input will remain on its respective output and vice versa.

The Audio Channel will switch to the highlighted Input.

(Unless the Unit is controlled by RS232, then the Audio can be switched independently. The front panel will always display the status of the PC / Video Inputs.)

Blank / Mute

To Blank and Mute the outputs press Blank button. The Button will illuminate and the Input buttons will extinguish.

- The Sync only of the last selected PC and Video Inputs will be present on the outputs.
- The Blank and Mute will disable as soon as a source is selected.

Volume

This is a master volume control and will adjust the level of all inputs.

- To increase volume press the arrow Up button.
- To decrease volume press the arrow Down button.

The newly set volume level for the selected audio input will be permanently stored even after switch off.

Attenuation

The initial attenuation level of all the Inputs is set to 0dB.

If some sources are louder than others then they can be adjusted to match.

To change the attenuation level of an input, press and hold the input select button. Use the arrow up/down buttons to set the level.

When set release the buttons and the level will be stored

Display Device Serial Output

This can be used for direct control of a projector or any device with RS232 control.

The 2011 can be programmed to transmit Power On/Off and RGB, Composite and S-vid mode commands to a display device using Procon Device manager software (See programming section)

The commands are transmitted from the Display Serial terminal.

Input mode only

When the 2011 is powered up a mode command will be sent to a display on the first press of any Input select button. The command will either be RGB, Composite or S-Video depending on the button pressed. This will ensure a display device is set to the correct mode to display the input selected. Each time a different source type is selected then a mode command will be sent to the display device.

For this function to work the Display must be ON

Power On/Off mode

When the 2011 is powered a Power On command will be sent to a display on the first press of any input button. The button will flash for a programmed set time and the 2011 will disable.

This allows a projector to warm up. At the end of the warm up period an RGB, Composite or S-Video command is sent to the display, the 2011 enables and the system is ready for use.

To turn the controlled projector off, press and hold the "Blank" button for 5 seconds.

The Programming cable connections are as follows:

PC Serial Port (D9)	2011
Pin2	TX
Pin3	RX
Pin5	GND

Display Connections

Display device	2011
RX	Display serial o/p
GND	GND

RS232 Control

The unit may be controlled using an RS232 outputting system as follows.

Connection

Controller	2011
GND	GND
TX	RX
RX	TX (if feedback information required)

Set the Protocol as follows:

- Baud Rate = 9600
- Data Bits = 8
- Parity = None
- Stop Bit = 1

The default address of the 2011 is 0.



NOTE

All commands are hexadecimal.

SET Commands

Input Switching

The following command switches input sources.

Byte 1 (Header)	Byte 2 (Address)	Byte 3 (Video Input)	Byte 4 (Audio Input)	Byte 5(optional) RGB Delay (see note)
E8	00 to FF	00 to 0A	0 to 0A	01 to FF



NOTE

The Audio Inputs can be switched independently from the Video.

Bytes 3 and 4

- 01 to 04 correspond to PC inputs 1 to 4
- 05 to 0A correspond to video inputs 1 to 6
- 00 for Blank
- 1F no change

Byte 5

This switches the input sync but holds the RGB in blank for the time period set by the byte. This allows for a clean switch between inputs.

- The value is in seconds (e.g. 03 = 3 seconds).
- If RGB delay is not required then ignore the 5th byte.

Master Volume (Changes all Input Levels)

The overall Volume level increases 0.5db each time the following command is sent:

Byte 1 (Header)	Byte 2 (Address)	Byte 3 (Increase)
E8	00 to FF	10

The overall Volume level decreases 0.5db each time the following command is sent:

Byte 1 (Header)	Byte 2 (Address)	Byte 3 (Decrease)
E8	00 to FF	20

Absolute Volume Level

A Volume value can be set directly using the following command:

Byte 1 (Header)	Byte 2 (Address)	Byte 3 (Volume Value)	Byte 4
E8	00 to FF	0F	00 to 5A

with **00** as the loudest (0dB)

Attenuation (Changes Level on selected Input only)

The Volume level increases 0.5db each time the following command is sent:

Byte 1	Byte 2	Byte 3
(Header)	(Address)	(Increase)
E8	00 to FF	0D

The Volume level decreases 0.5db each time the following command is sent:

Byte 1	Byte 2	Byte 3
(Header)	(Address)	(Decrease)
E8	00 to FF	0E

Absolute Attenuation Level

An attenuation value can be set directly using the following command:

Byte 1	Byte 2	Byte 3	Byte 4
(Header)	(Address)		(Volume Value)
E8	00 to FF	0F	00 to 1F

with 00 as (0dB)

Mute ON

Byte 1	Byte 2	Byte 3
(Header)	(Address)	
E8	00 to FF	0B

Mute OFF

Byte 1	Byte 2	Byte 3
(Header)	(Address)	
E8	00 to FF	0C

Front Panel Disable

Byte 1	Byte 2	Byte 3
(Header)	(Address)	
E8	00 to FF	40

Front Panel Enable

Byte 1	Byte 2	Byte 3
(Header)	(Address)	
E8	00 to FF	41

Memory Reset (sets 2011 to Default Factory Settings)

Byte 1	Byte 2	Byte 3
38	62	DC

Change Address (Sets 2011 to New Address)

Byte 1	Byte 2	Byte 3	Byte 4
			(Address number)
38	62	D9	00 - FF

GET Commands

Switch and Volume Status Feedback

Transmit

Byte 1	Byte 2	Byte 3
(Header)	(Address)	
EF	00 to FF	80

Receive

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5
(Header)	(Address)			
C8	00 to FF	PC or Video Input	Audio input	Input volume level
		0= Blank		
		1 to 4 = PC I/P		
		5 to 0A= Vid I/P		

The same string will be transmitted each time an input is selected.

Request Address

Transmit

Byte 1	Byte 2	Byte 3
(Header)	(Address)	
38	62	DA

Receive

Byte 1	Byte 2
(Header)	(Address)
C8	00 to FF

Request Attenuation Levels

Transmit

Byte 1	Byte 2	Byte 3
(Header)	(Address)	
EF	00 - FF	40

Receive

Byte 1	Byte 2	Byte 3	4	5	6	7	8	9	10	11	12
(Header)	(Address)										
C8	00 - FF	40	X	X	X	X	X	X	X	X	X

Where x is a value between 00 and 1F.

Identity Command

Sending this command:

Byte 1	Byte 2	Byte 3	Byte 4
F2	09	EA	80

The unit will return:

Byte 1	Byte 2
6E	04 =2010

Device Manager

Overview

This software can be used for configuring the 2011 to control external display devices.

It is downloadable from our website www.procon.co.uk under support.

Connection

Connect the serial port of the PC as follows:

PC (D9)	2011
Pin 5	gnd
Pin 2	tx
Pin 3	rx

Run Device Manager. If the connection is correct the software will automatically detect the 2011.

Click on the 2011 and a virtual panel will appear (FIG. 2):

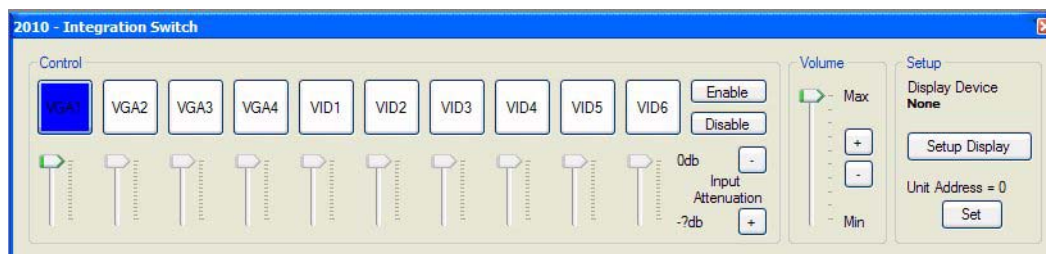


FIG. 2 Device Manager - Virtual Panel

Operation

Inputs can be selected and their respective attenuation levels can be set.

Master volume level can be adjusted and the front panel can be enabled/disabled.

If several units are to be externally controlled from one serial port then the address of each unit can be changed.

To program the 2011 to control external display devices click on **Setup Display**

Click on **Change** and select the required manufacturer, display type and model (FIG. 3):

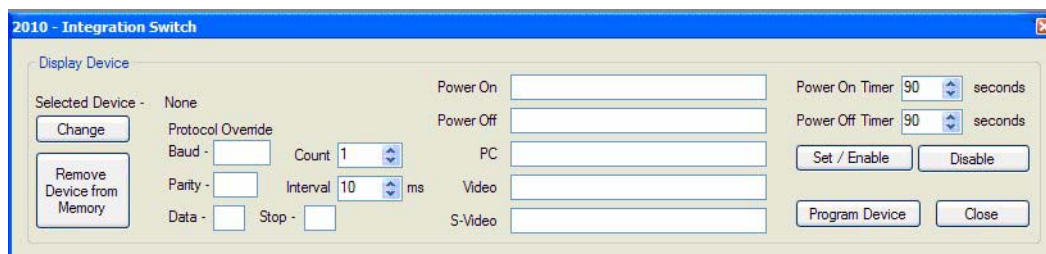


FIG. 3 Device Manager - Setup Display

The protocol and command strings will appear in the relevant boxes:

If the required device is not in the library then this can be added to by clicking on library from the menu bar and following the instructions (FIG. 4).

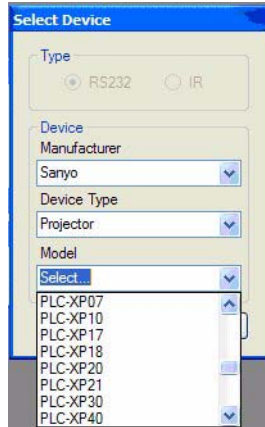


FIG. 4 Device Manager - Adding a Device to the Library



NOTE

The manufacturer's data sheet will be required.

If the string needs to be transmitted more than once then select the number of times from the count drop-down list and set a suitable interval period.

If the power on/off function is to be enabled then set a warm up/cool down time and click on Set/Enable.

Finally click on **Program Device** to download the information.

For operation see section on Display device serial output.



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