

AVS2

Valid Video Switch

OPERATIONS MANUAL

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Introduction

The AVS2 is a two input, one output, stereo video switch incorporating automatic programmable sync detection on either video source.

NOTE: Source A will ALWAYS be routed to the output in the absence of power to the AVS2.

Modes

The AVS2 is designed to be set up in one of two primary modes:

MODE 1:

Input A is the primary source, input B is the backup source. In the presence of valid video on input A, source A will be routed to the output. **In the absence of valid video on input A, source B will be routed to the output channel.**

The jumper configuration for this mode is as follows:

J4 - Out
JPR1 - A

(The location of the jumpers is shown in Figure 1A)

MODE 2: (Factory Default)

Input A is the backup source. input B is the primary source. In the presence of valid video on input B, source B will be routed to the output. **In the absence of valid video on input B, source A will be routed to the output.**

The jumper configuration for this mode is as follows:

J4 - In
JPR1 - B

(The location of the jumpers is shown in Figure 1A)

Time To Backup

The AVS2 has a user defined "TIME TO BACKUP" period, which is defined as the amount of time from the loss of valid video (either mode 1 or mode 2) to the switch to the backup source. This is configurable with jumpers J1 through J3, see Table 1.

TABLE 1:

J3	J2	J1	TIME TO BACKUP
OUT	OUT	OUT	50 mSEC
OUT	OUT	IN	225 mSEC
OUT	IN	OUT	420 mSEC
OUT	IN	IN	600 mSEC
IN	OUT	OUT	1.2 SEC
IN	OUT	IN	6 SEC
IN	IN	OUT	12 SEC
IN	IN	IN	35 SEC

Manual Overrides

The AVS2 also allows manual override of the primary source with jumpers J6 and J7 and pins 6, 8 and 9 of the DB 9 connectors.

J6 (IN):

A contact closure from pins 9 to 8 will cause an immediate switch to the backup source, regardless of the status of the primary video source.

J7 (IN)

A contact closure from pins 6 to 8 will cause an immediate switch to the backup source, regardless of the status of the primary video source.

NTSC / PAL OPERATION

J10 (IN) enables detection of PAL video. Since some other minor modifications of the unit are necessary for PAL operation, changing this jumper should only be done at the factory.

USE OF THE AVS2 WITH THE LITE-NING CONTROLLER

In addition to the previously mentioned modes of operation, the AVS2 provides several features for use explicitly with the Lite-Ning Broadcast Controller.

The AVS2 can be configured to be overridden by the Lite-Ning controller and also to generate interrupts for use by the Lite-Ning.

Lite-Ning Overrides: J5 (IN)

By issuing a device command of "1" or "PLAY" to the device port on which the AVS2 is attached, the AVS2 will switch to the backup source and simultaneously generate an interrupt. That condition will remain until another device command of "0" or "NULL" is issued, at which time the AVS2 will switch back to the primary source (assuming that valid video is present on the primary source).

NOTE: If an IUVR (Infrared Universal VCR Remote) or WUVR (Wired Universal VCR Remote) device interface is attached to the AVS2 and jumper J5 is in, any device commands sent to the IUVR or WUVR may inadvertently cause a switch to the backup source on the AVS2. It is advisable to change jumper J5 to OUT if the AVS2 is to be used in conjunction with a IUVR or WUVR.

Lite-Ning Interrupts

Definition of interrupt terms:

Inactive Interrupt: State of TTL high on interrupt pin, +5 VDC level.

Active Interrupt: State of TTL low on interrupt pin, ground level.

J8 (IN):When the primary source video is lost, interrupt ? will be active on the device port to which the AVS2 is attached. This interrupt will remain active for the entire duration that the primary video is lost. When primary video returns, interrupt ? will go inactive.

J9 (IN):When the primary source video is lost, interrupt 1 will be active on the device port to which the AVS2 is attached. This interrupt will remain active for the entire duration that the primary video is lost. When primary video returns, interrupt 1 will go inactive.

External Overrides With Interrupts

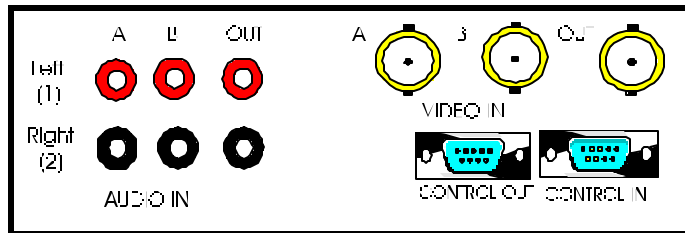
If using external overrides with pins 6, 8, and 9 on the DB9 connector, those overrides will also generate interrupts as follows:

If J8 is in, a contact closure from pins 9 to 8 will cause interrupt ? to go active for the entire duration of the override.

If J9 is in, a contact closure from pins 6 to 8 will cause interrupt 1 to go active for the entire duration of the override.

* If J6 and J7 are both IN, either closure will generate an interrupt.

NOTE: If J8 and J9 are both IN, both interrupts' ? and 1 will go active.



AVS2 REAR PANEL

SPECIFICATIONS:

- Video Inputs: BNC connectors*
- Audio Inputs: RCA connectors*
- Video Bandwidth: 10 MHz minimum*
- Power/Data Loop: DB9 Female connector*
- Audio Bandwidth: 10 MHz minimum*
- Crosstalk: -65 dB minimum*
- Power/Data: DB9 Female connector*
- Dimensions: 5.5" x 3" x 1.7"*

Table1.1

DB9 Control In/OUT	Function	Notes
1	D0	Data Bit 0
2	D1	Data Bit 1
3	D2	Data Bit 2
4	D3	Data Bit 3
5	Override	Manual override from Lite-Ning or Active with J5 ON
6	Interrupt 1	Interrupt 1 for Active or Lite-Ning INT2 use
7	+5 VDC	+5 Volts DC
8	Ground	Ground
9	Interrupt 0	Interrupt for Lite-Ning INT1 use

AVS2 ACCESSORIES:

- WT-1: Wall Transformer, 5 VDC REG, 300 MA, Powers up to three units*
- M009KIT: Rack Mount kit, 1 rack space, holds up to three units*
- DTMF: DTMF tone decoder for use with automatic video or manual DTMF switching*
- Operator: Telephone interface for performing manual switching.*

All features and specifications subject to change without notice.