

1582-21 Video, Audio Switch

The 1582-21 provides AUTO or Manual relay switching between CH1 and CH2 Video and one stereo (Left, Right) balanced audio signal.

Alarm conditions on CH1 and CH2 are either detection of loss of audio (below -10 dBm) for a preset 10 to 90 seconds on CH1, CH2 Left audio (+) or contact closure (to ground or an open, selectable). Switching logic can be:

1) CH1 Prime Mode - Switches from CH1 to the CH2 only if CH1 alarms and CH2 is good. Switches back to CH1 when it is no longer in alarm or when both CH1 and CH2 are in alarm

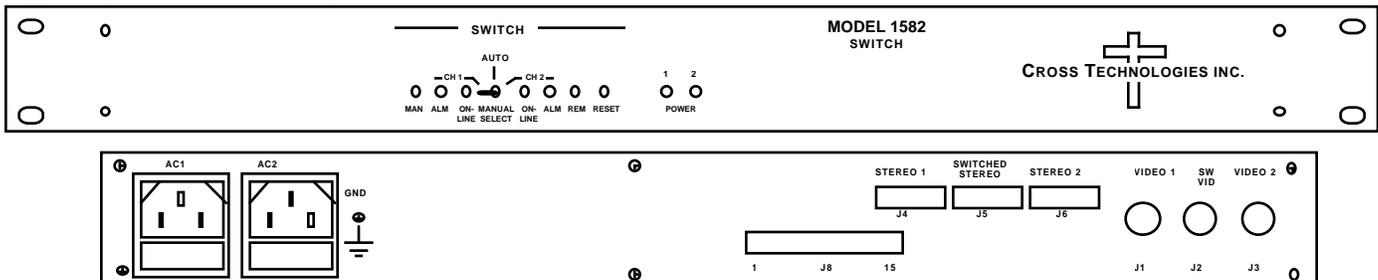
2) Latch to CH2 Mode - Switches from CH1 to the CH2 if CH1 alarms and CH2 is good. Latches to CH2. Push Manual Reset or ground Remote Reset pin to return to CH1 if it has no alarm.

3) Minimum AUTO switching, CH1 Prime Mode - Switch goes to CH1 after Manually or Remotely switching after return to AUTO. AUTO switching only occurs if current channel alarmed and other channel clear.

4) Minimum AUTO switching, Initial Channel Select (ICS) Mode - Switch stays on channel last selected by Manual or Remote selection after return to AUTO. AUTO switching occurs only if current channel alarms and other channel clear.

On power loss and when power is applied (as alarms at power up dictate), the default is always to CH1. The Manual Select switch and (when in AUTO) contact closures to Remote Select pins, select CH1 or CH2 independent of alarms. LEDs and closures indicate alarm and switch conditions for CH1 and CH2 and REMOTE or MANUAL operation.

Video connectors are BNC, female. Audio connectors and contact closure inputs are via barrier strip. Dual power supplies provide redundant power to the 1582-21. The chassis is a 1 3/4", rack mount.



1582-21 Video, Audio Switch Panels

1582-21 Technical Specifications

Switch Characteristics

Impedance,	Video 75 ; Audio 600
Type	Relay
Isolation	Video >65 dB to 10MHz; Audio >80 dB to 20 KHz
Switch time	10 milliseconds
Insertion Loss	0.5 dB, Video, < 0.2 dB audio
Alarm	Left audio <-10 dBm or ext closure
Switch after alarm	10 to 90 sec., 10 sec. increments

Controls and Indicators

Manual Select Manually select CH1, CH2

Switch RESET Resets switch to CH1 if it is good and switch is in the latch mode, Also Resets REMOTE
LEDS, CLOSURES CH1, CH2 ON-LINE, ALARM CH1, CH2, POWER; MANUAL; REMOTE

Other

Connectors Video - BNC, female; Audio- 6 pin Barrier Strip; Alarm-14 pin Barrier Strip
Mechanical 19 inch standard chassis 1.75"high X 12" deep
Power Redundant power supplies; 90 - 260 VAC, 47 - 60Hz, 30 watts

* +10 to +40 degrees C; Specifications subject to change without notice

