

AVM0810 – 8:1 Audio / Video Multiplexer

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General Description:

The AVM0810, RS232 based, 8:1 Video Multiplexer / Video Switch allows switching of up to eight video sources to one monitor, VCR, or video capture card. The video multiplexer was designed for use in security and industrial monitoring applications. Contact inputs for motion detectors or IR (Infra Red) remote manual switch allow manual video switch control (no host computer) or switching based on motion detection. Timed switching mode allows scanning of inputs with user set dwell time. RS232 controlled switching allow full control of switching via an RS232 connection. The Figure 1 shows the connection diagram in all specific applications.

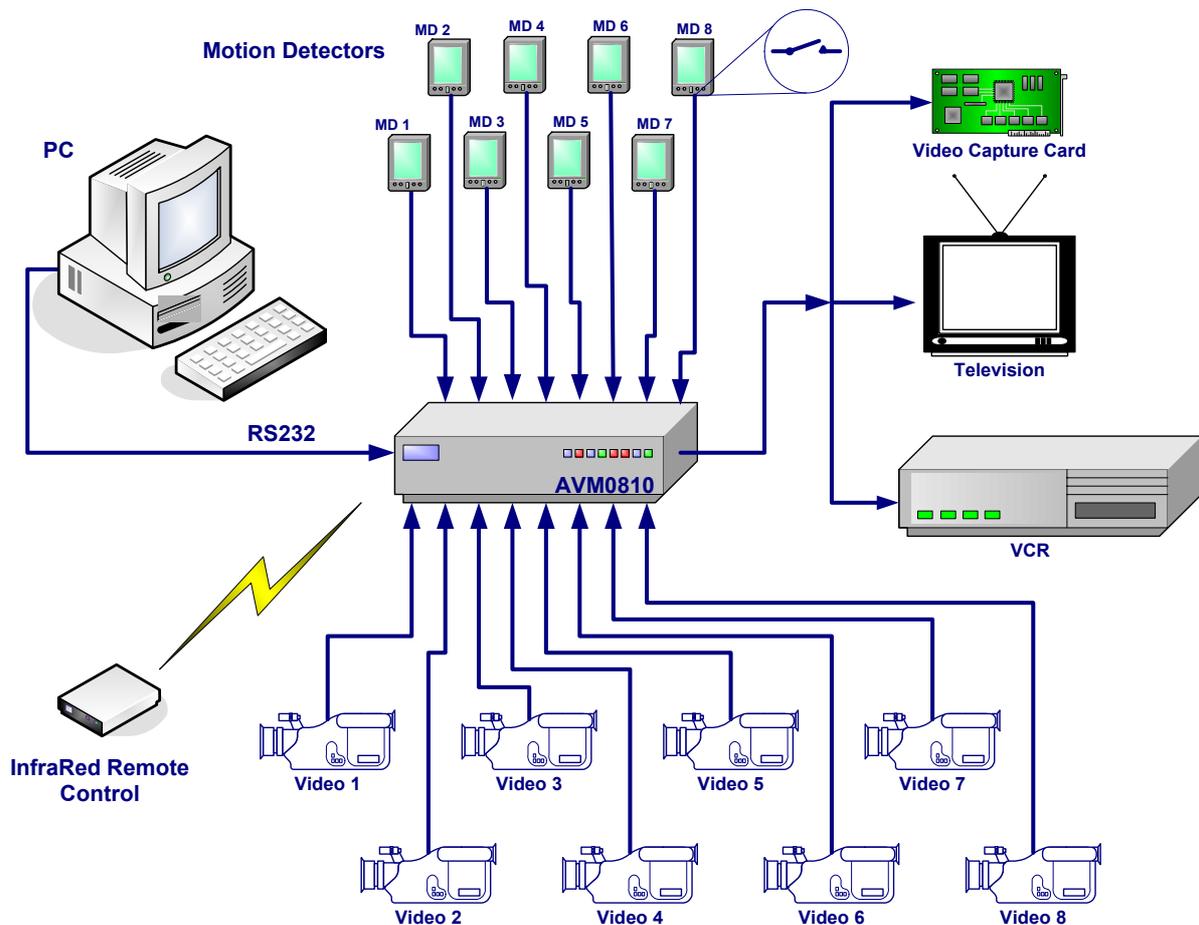


Figure 1

MODE1: Motion Input / Remote manual Switching:

Mode 1 allows the use of an IR remote control to select which input is routed to the output. Motion detector outputs of cameras can also be used for switching. There are eight contact inputs on the AVM0810 video multiplexer which allow the use of cameras equipped with motion detectors to be used to determine which channel is routed to the output. A host computer is not required but may be used to monitor motion and/or video signals. Video output can then be routed to a VCR, video monitor or video capture card.

MODE2: RS232 Controlled Switching:

Mode 2 allows full control of switching via an RS232 connection. Simple ASCII commands allow channel selection, and also, monitoring of the eight contact inputs. Software interrupts may be enabled to notify host of contact input (motion) status changes. Video output can then be routed to a VCR, video monitor or video capture card.

MODE3: Timed Switching:

Mode 3 enables switching of channels based on time intervals set by the host computer or IR remote control. Dwell time is set from 1 to 60 seconds. Video output can then be routed to a VCR, video monitor or video capture card.

The AVM0810 is expandable device. The expansion cards allow get additional analog audio channels 8:1 multiplexer, (mono if 1 and stereo if 2 expansion cards are used).