

MATRIX

VGA Video Switchers



Features:

- Model VSM-404 provides 4 inputs and 4 outputs
- Model VSM-802 provides 8 inputs and 2 outputs
- Switching is easy with the included keypad(s)
- RS-232 port allows control from serial device
- Perfect video - even at 1600 x 1200 resolution
- All inputs are terminated and all outputs are buffered
- Supports total cable length of 150 or 300 feet
- VSM-802 features dual-head display switching mode
- Universal power supply included

Produce the ultimate presentation for your conference room, boardroom, trade show booth, courtroom, trading floor, auditorium, etc. with Hall Research Technologies' video switch matrices. The switches are perfect for providing real-time information updates on multiple screens.

The versatile VSM-404 is a 4 x 4 video switch matrix that enables you to mix and match the output from up to four PCs with up to four video screens. The powerful VSM-802 is an 8 x 2 model designed to display output from up to eight PCs on two video screens.

Show something different on each screen, or show the same video on all screens. You can even blank out one or more screens so your audience pays attention to what you want them to focus on - the possibilities for video presentation are endless.

Switching is easy with the included keypad(s). The VSM-404 comes with one numeric keypad powered by the Switch. Press the keypad buttons in the sequence: [output][input][Enter] to make a switch. For example, press 3.1 Enter to connect monitor #3 to CPU #1.



If you press zero for the input channel, the specified output will be blanked. If you press the asterisk key (wildcard) for the output number, the input channel will be broadcast to all outputs. Front panel LEDs show you which output channel is receiving which input. The keypad's cable is 6 ft., but you can use DB9 extension cable to 300 feet to extend it.

The VSM-802 comes with 2 keypads so each output has its own dedicated keypad. The keypad operation is even simpler, just press the single button corresponding to the channel you want to display.

Send the video from any input to any output at the touch of a button



Control From Serial Device

Both switches provide RS-232 serial control port for automated applications. You can control the display of any output by simply sending ASCII characters to the switch. HRT offers a free PC Windows® control software for download.



The switches are compatible with VGA (RGBHV), RGBS, or RGsB with resolutions up to 1600 x 1200. They provide convenient HD15 connectors for easy connection to the PCs and monitors.

The VSM-404 matrix switch can drive VGA cables with a total length of up to 150 feet. The VSM-802B features user settable compensation switches that enable it to drive VGA cables to 300 feet.

The VSM-802 also features "dual-head display" switching mode. In this mode each PC has two distinct video outputs. You can switch the video signals from each of 4 PCs simultaneously to a dual-head monitor with just one keystroke.

HRT Since 1984
Hall Research

1-800-959-6439

1163 Warner Ave
Tustin, CA 92780

Voice: 714 641 6607
Fax: 714 641 6698

www.hallresearch.com

VSM-404 & VSM-802 Specifications

- Standards:** VGA, SVGA, XGA, or XGA-2 video
- Interfaces:** Video: VGA; Keypads: EIA/TIA RS-232 Serial
- Resolution:** Up to 1600 x 1280 non-interlaced at up to 85 Hz
- Bandwidth:** DC to 265 MHz
- Video Level:** 0.7 volts peak-to-peak
- Video Gain:** 1-to-1 (buffered). VSM-802 features switches that apply higher gain to higher signal frequencies to compensate for losses in long cable
- Max. Distance:** VSM-404 - Up to 150 ft; VSM-802 - Up to 300 ft. of total length from input to output
- User Controls:** VSM-404 - (Qty. 1) Separate serial numeric keypad. Front panel Power Switch
VSM-802 - (Qty. 2) Separate 10-button serial keypads. (Qty. 2) 8-position DIP switches for distance compensation
- Indicators:** Front-Panel LEDs, for each output port. VSM-802 keypad also features LEDs.
- Connectors:** Video inputs and outputs : HD15 female
Control/keypad input(s): VSM-404: single DB9 male, VSM-802: two DB9 females
Power: 5-pin DIN female power inlet
- Max. Altitude:** 10,000 ft. (3048 m)
- Temperature:** Operating: 0 to 50°C; Storage: -40 to +85°C (humidity up to 95% non-condensing)
- Enclosure:** Steel
- MTBF:** 200,000 hours (calculated estimate)
- Power:** From utility-power (mains) outlet, through included detachable output cord and external universal power supply:
Input: 100 to 240 VAC at 50 to 60 Hz (auto sensing);
Output: +5 VDC at 1 A, +12 VDC at 0.5 A, and -12 VDC at 0.5 A;
Consumption: 5 VA (5 watts) maximum
- Size:** VSM-404 - 2.3"H x 8.3"W x 5.3"D
VSM-802 - 1.5"H x 12.1"W x 4.1"D mounting ears protrude an additional 0.9" wide on each side
- Weight:** VSM-404 - Switch: 2.2 lb.; Keypad: 1 lb.; Power supply: 1.3 lb.; Shipping: 6 lb.
VSM-802 - Switch: 2.3 lb.; Keypads: 1 lb. Ea.; Power supply: 1.3 lb.; Shipping: 7 lb.

F.Y.I.



Quality Video Cables

To preserve the resolution of the video signal, Low-loss and impedance-matched cables are essential. Hall Research offers specially engineered cables for your video signal.

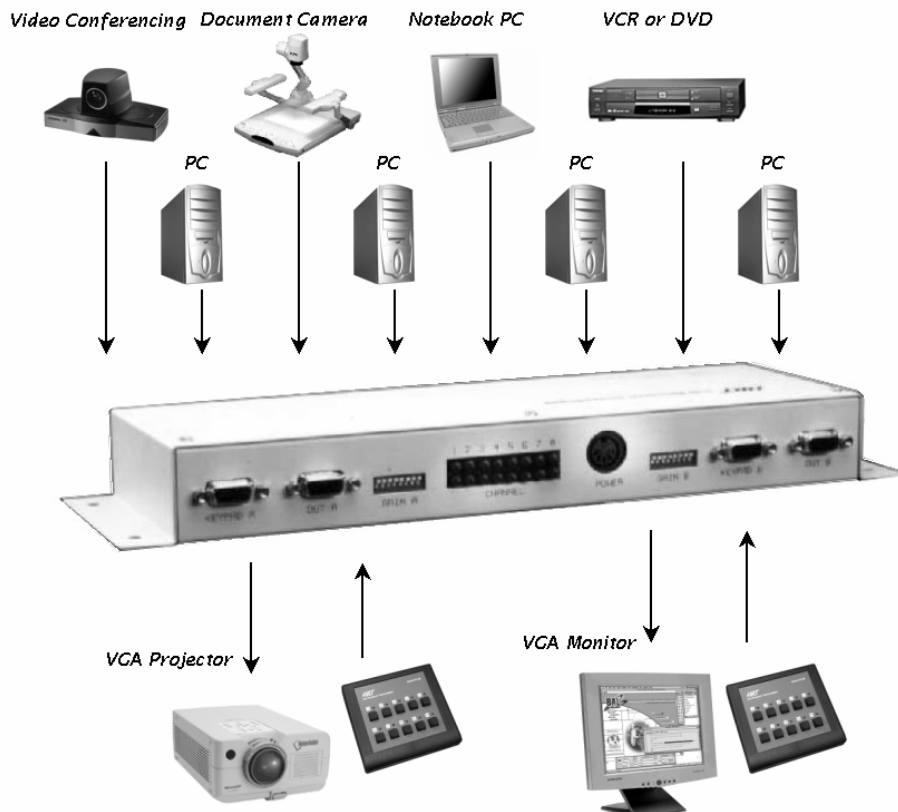
Video on Cat5 Cable

Split and send your VGA video on inexpensive Category-5 LAN cable up to 1,000 feet away with excellent image quality.

Hall Research offers VGA-on-Cat5 splitters.



VSM-802 Block Diagram



Note: All inputs are VGA. For TV-type video (e.g. VCR) a converter such as Hall Research Model TVB-200 is required

Larger Matrix Switches

If your application calls for a larger Video Matrix Switch, please contact Hall Research to obtain information on our other configurations. Shown here are: 16x2 VGA (left) and 10x12 RGBS (bottom) Video Matrix Switches.

