

VS5008 Series Sequential Switcher

Installation/ Operation Manual

C809M-E (12/99)



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IMPORTANT SAFEGUARDS AND WARNINGS

Prior to installation and use of this product, the following WARNINGS should be observed.

1. Installation and servicing should only be done by qualified service personnel and conform to all local codes.
2. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6 or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
3. Only use replacement parts recommended by Pelco.
4. After replacement/repair of this unit's electrical components, conduct a resistance measurement between line and exposed parts to verify the exposed parts have not been connected to line circuitry.

The product and/or manual may bear the following marks:



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

CAUTION:

RISK OF ELECTRIC SHOCK.
DO NOT OPEN.

Please thoroughly familiarize yourself with the information in this manual prior to installation and operation.

DESCRIPTION

The VS5008 is a sequential switcher designed to switch up to eight cameras manually or automatically to one or two monitors and to respond automatically to alarm inputs.

MODELS

VS5008	Sequential switcher, eight camera inputs, two monitor outputs, Coaxitron® compatible, desktop or rack mount, 120 VAC (UL)
VS5008/220	Same as VS5008 except 230 VAC (CE)

INSTALLATION

1. The VS5008 Series Sequential Switcher is shipped as a terminating unit, but can be modified for looping operation. To install the VS5008 do the following:
 - a. Terminating Operation – Proceed to step 2.
 - b. Looping Operation – To convert to looping operation, remove the cover. Remove the rear panel of the chassis. Locate the 75-ohm resistors at the rear of the BNC jacks. Use wire cutters to clip one of the resistor leads for each input that you want to loop (refer to Figure 1). Replace the cover. Looping and terminating inputs may be mixed.

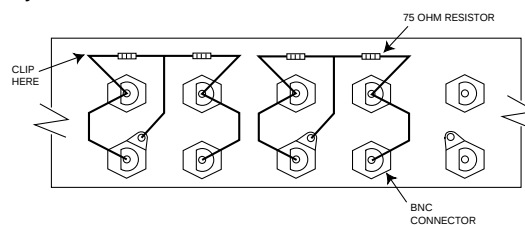


Figure 1. Looping Conversion Modification

NOTE: MON 1 output must be terminated at all times with a monitor, or if not used, by a 75-ohm BNC terminator.

2. Place the switcher on a desktop or install it in an equipment rack.
3. Make alarm connections.
 - a. **Input Connections** – The VS5008 has eight alarm inputs that require a ground to activate. Refer to Figure 2 for connections.
 - b. **Output Connections** – The VS5008 can activate an external device, such as a VCR, during an alarm response. Refer to Figure 2 for connections. The output load must not exceed 40 mA. Typical connections to this output would be active low logic input devices, solid-state relays, or optical couplers.
4. Make all equipment connections to the VS5008. If the system configuration utilizes only one monitor, the monitor must be connected to the MON 2 output to allow sequencing or to display an individual channel. Refer to Figures 3 through 6 for system configurations. If you are using the VS5008 with a Coaxitron transmitter (model MPT9000CZ or MPT9000PZ), follow the configuration shown in Figure 7.
5. Set all channel switches to AUTO (center). If a video input is not connected, set the corresponding channel switch to the BYPASS (down) position.
6. Connect the AC adapter to the 12 VAC input socket on the switcher. Connect the transformer to a 120 or 230 VAC power supply. The switcher starts sequencing.
7. Use a screwdriver to adjust the DWELL interval control to the desired switching interval, 1 to 70 seconds nominal. Rotate the DWELL control clockwise for longer intervals and counterclockwise for shorter intervals. This control is a 15-turn precision potentiometer. The approximate ratio is one full turn per 4 to 5 seconds of delay.

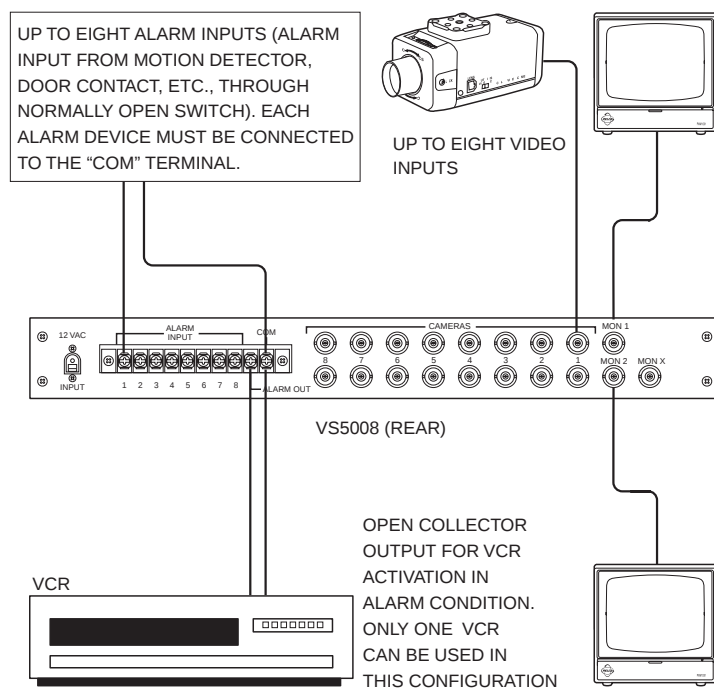


Figure 2. Alarm Hook-up

NOTE: MON 1 must be terminated.

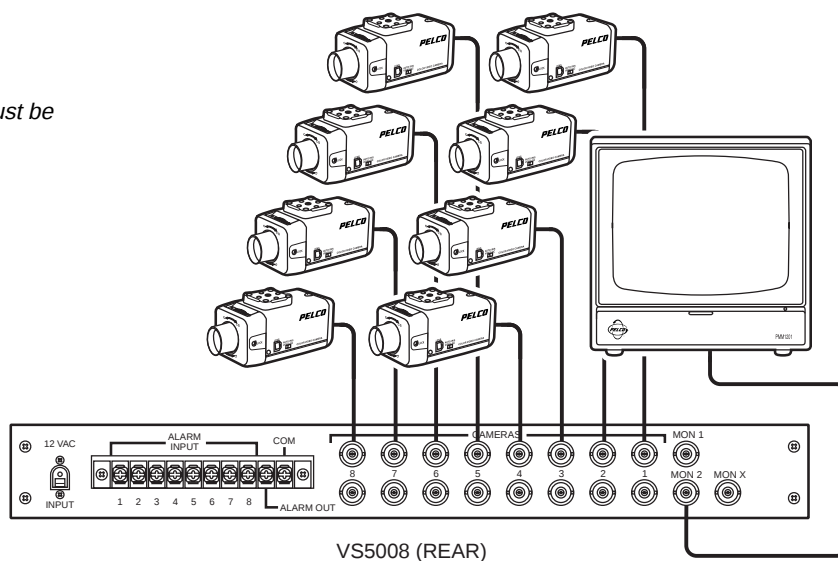


Figure 3. Terminating Configuration—One Monitor

NOTE: In this configuration, MON 1 must be terminated and the unit must be modified in order to be looping (refer to Figure 1).

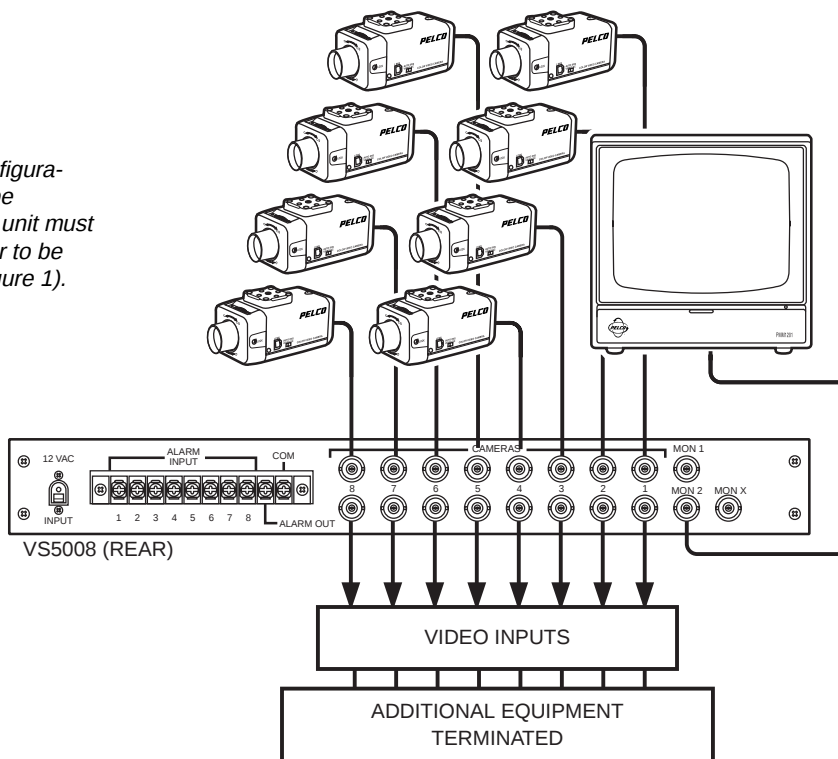


Figure 4. Looping Configuration—One Monitor

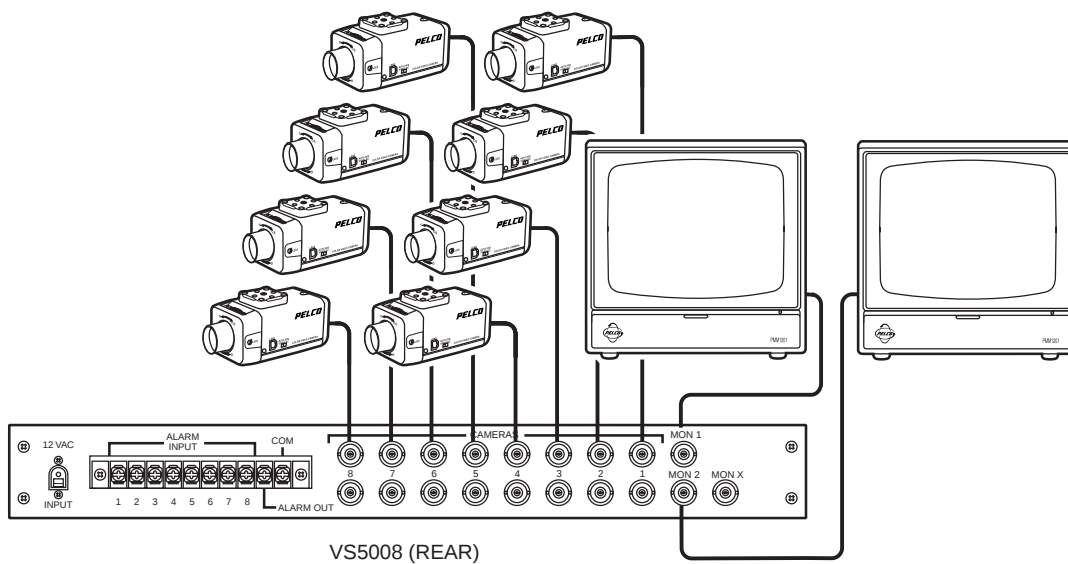


Figure 5. Terminating Configuration—Two Monitors

NOTE: In this configuration the unit must be modified in order to be looping (refer to Figure 1).

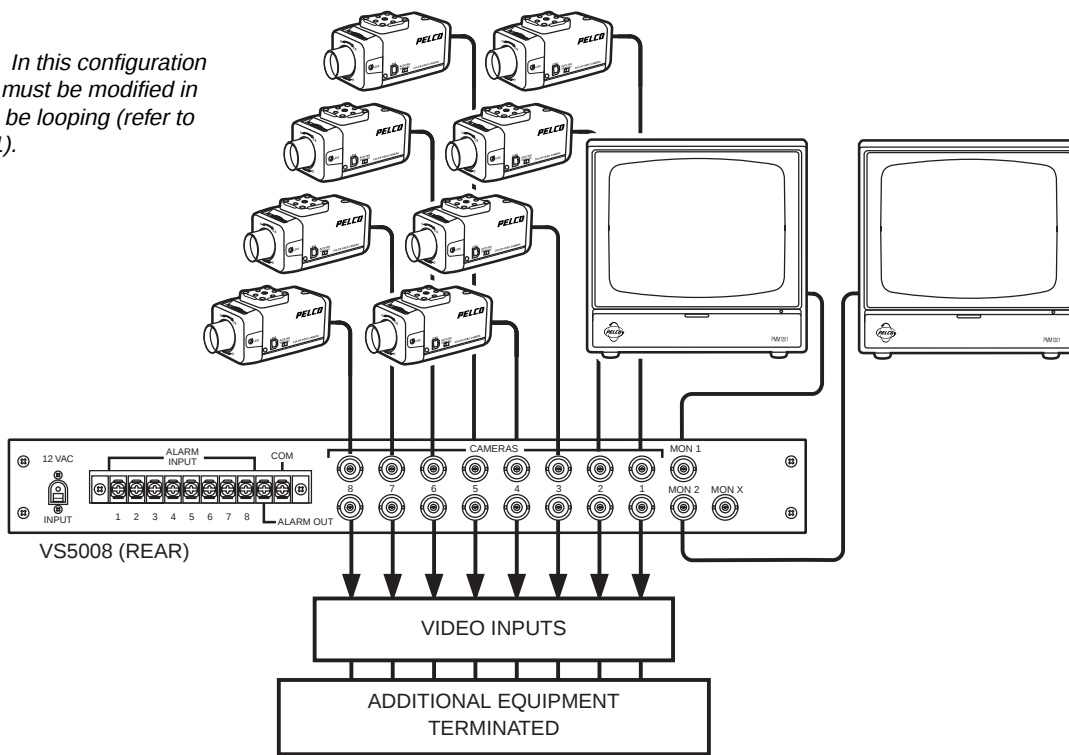
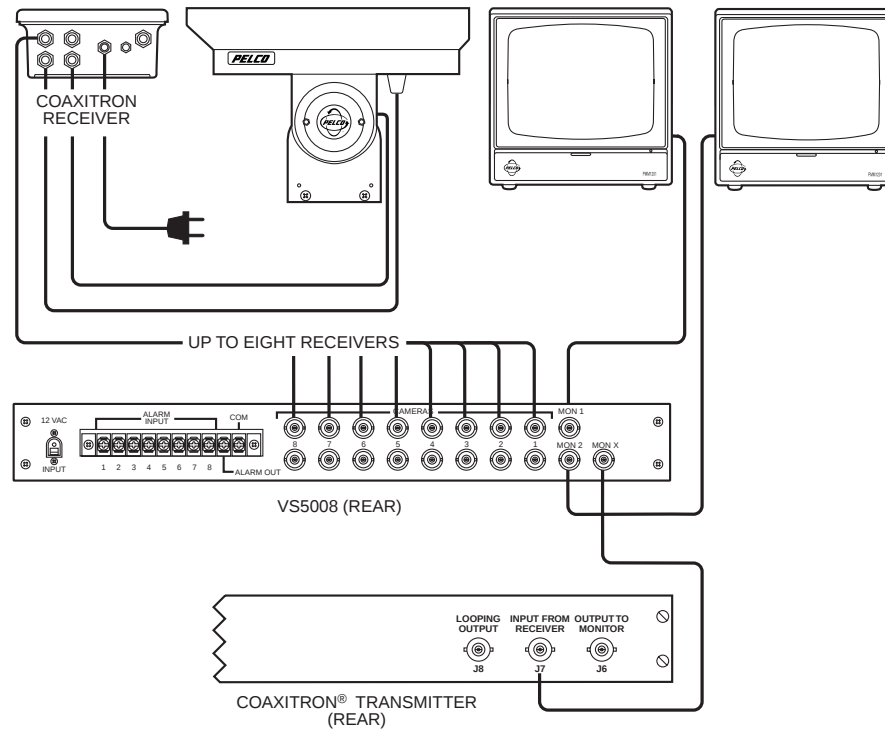


Figure 6. Looping Configuration—Two Monitors



NOTE: IN THIS CONFIGURATION, THE LOOPING OUTPUT (J8) IS UNTERMINATED

Figure 7. VS5008 with a Coaxitron Transmitter

OPERATION

ONE-MONITOR OPERATION

When the VS5008 is configured for one-monitor operation, the monitor must be connected to the MON 2 output. The eight video inputs will automatically sequence through the monitor. To remove a channel from the sequence, set the channel's switch to BYPASS. Switching any channel to the MONITOR position will interrupt the sequence and display input from the selected channel onto the monitor.

TWO-MONITOR OPERATION

When configured for two-monitor operation, the eight video inputs will automatically sequence through Monitor 1. To remove a channel from the sequence, set the channel's switch to BYPASS. To view a single channel, set the channel's switch to the MONITOR position. Monitor 2 displays the output. Monitor 2's output will not interfere with Monitor 1's sequencing. If all switches are set to the AUTO position, Monitor 2 sequences with Monitor 1. If more than one channel switch is set to the MONITOR position, the lowest number switch takes precedence.

ALARM OPERATION

Set the ALARM switch to the ON position.

If all the channel switches on the front panel are set to AUTO when an alarm occurs, both monitors immediately switch to the alarmed channel and the associated LED blinks. If more than one alarm is triggered, the monitors sequence simultaneously, at a three-second rate, between the alarmed channels.

If a channel is set to the MONITOR position, Monitor 1 switches to the alarmed channel but Monitor 2 continues to display the selected channel. If a channel is set to BYPASS, Monitor 1 switches to the alarmed channel.

Once an alarm is triggered, the alarm remains on until the alarm condition is removed or the alarm switch is moved to the OFF position.

When the alarm switch is in the OFF position, the switcher ignores any alarm inputs.

SERVICE MANUAL

If you need to service your unit, obtain a service manual in one of the following ways:

- Go to Pelco's web site at <ftp://www.pelco.com> and find service manual C809SM.
- Call Pelco's DataFAX service at 1-800-289-9108 or 1-559-292-0435 and request document 28098.
- Contact Pelco's Literature Department and request service manual C809SM.

SPECIFICATIONS

VIDEO

Inputs:	Terminating (75 ohms) or looping
Outputs	
Monitor 1/2:	75 ohms
Monitor X:	Coaxitron transmitter (non-amplified) output
Gain:	Unity
Dwell:	Adjustable from 1-70 seconds nominal
Frequency	
Response:	Flat within ± 1 dB to 10 MHz
Maximum	
Signal Level:	2 Vp-p
Tilt:	< 2%
Crosstalk:	Better than -40 dB at 5.5 MHz

ELECTRICAL

Power Requirements

for Transformer: 1.5 vA (.125 amp) at 12 volts RMS $\pm 15\%$ 50/60 Hz from a dedicated, isolated power supply. Wall transformer provided with unit, 120 or 230 VAC operation

Connectors:	BNC
Alarm In:	Normally open relay contact, 10V at 1 mA
Alarm Out:	Open collector

GENERAL

Construction

Chassis:	Steel, zinc plated
Cover:	Steel, black polyester powder coat
Panel:	Aluminum, black polyester powder coat with white silk screen
Environment:	32° to 120°F (0° to 49°C)
Dimensions:	1.75 (H) x 14.50 (W) x 8.50 (D) inches (4.45 x 36.83 x 21.59 cm)
Weight:	7 lb (3.17 kg)
RATINGS:	NEMA 1

(Design and product specifications subject to change without notice.)

REGULATORY NOTICES

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment. Exceptions to this warranty are as noted below:

- Three years on Genex® Series (multiplexers, server, and keyboard).
- Two years on all standard motorized and fixed focal length lenses.
- Two years on Esprit™, Legacy®, Intercept®, PV1000 Series, CM6700/CM8500/CM9500/CM9750/CM9760 Matrix, Spectra®, DF5 Series and DF8 Fixed Dome products.
- Two years on WW5700 series window wiper (excluding wiper blades).
- Two years on cameras.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Ship freight prepaid to: Pelco
300 West Pontiac Way
Clovis, CA 93612-5699

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair). Goods returned for repair or credit should be clearly identified with the assigned CA/RA number and freight should be prepaid. All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Ship freight prepaid to: Pelco
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Clovis, CA 93612-5699

REVISION HISTORY

Manual #	Date	Comments
C809M	9/92	Rev D.
C809M-E	12/99	Moved exploded assembly diagram, parts list, and schematic to new maintenance/service manual (C809SM). Updated manual to new format.