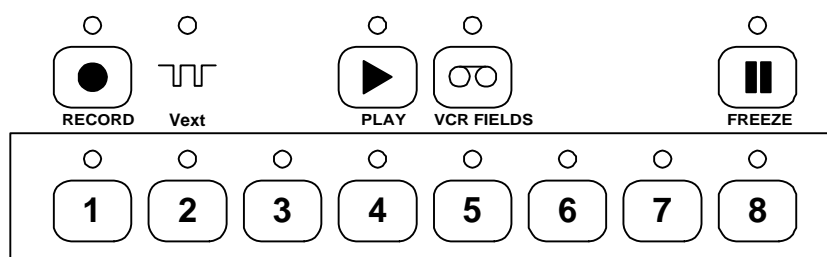




**JMMS8  
8 Channel  
Monochrome Video Multiplexer  
Installation Instructions**

January 1998



CAMERAS

JAVELIN SYSTEMS

Copyright © Javelin Systems, A Division of Ademco Security Group, Inc.

All rights reserved. No part of this publication may be reproduced by any means without the permission of Javelin Systems.

The information in this publication is believed to be accurate in all respects. However, Javelin Systems cannot assume responsibility for any consequences resulting from the use thereof. The information contained herein is subject to change. Revision to this publication or new additions to it may be issued to incorporate such changes.

# **INSTALLATION GUIDE**

## **INSTALLATION SITE LOCATION**

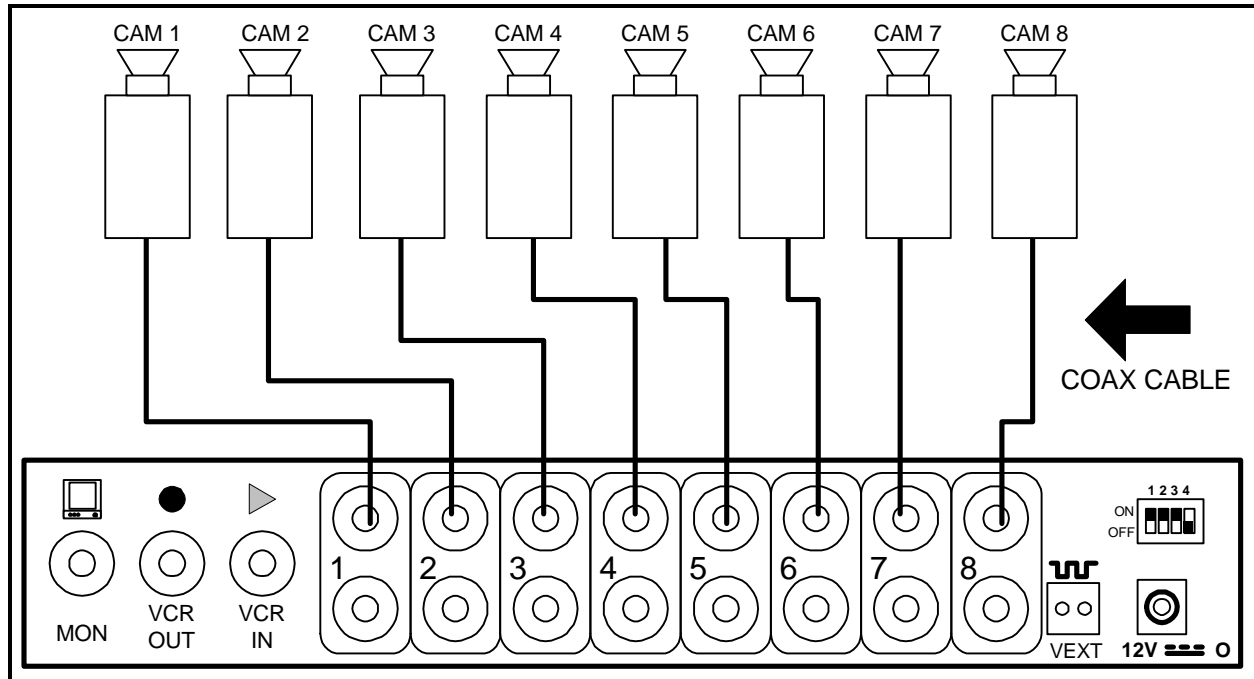
1. Ensure that the AC power supply to which the unit will be connected is stable and is within 10% of the unit's rated voltage. If the power source is likely to have excessive spikes or power dips, power line conditioning or a UPS should be considered to avoid possible power resets or damage to the unit.
2. Ventilation: Ensure that the location planned for the installation of the unit is well ventilated. Take note of the locations of the cooling vents in the unit's enclosure. Ensure that they are not obstructed in the planned installation.
3. Temperature: Observe the unit's ambient temperature specifications when choosing an installation site. Extremes of heat or cold beyond the specified operating temperature limits may cause the unit to fail or to be damaged.
4. Other equipment: Do not install the unit in cabinets with or immediately above other equipment which may cause ambient temperatures around the unit to exceed the operating temperature limits for the unit.
5. Rack mount: If the unit is to be rack-mounted, ensure that the unit will be adequately supported and that the weight of other equipment is not directly on the unit. A rack-mount kit is available for the unit.

## **BASIC INSTALLATION STEPS**

1. **Connect Camera Inputs**
2. **Connect Monitor Output**
3. **Connect VCR Cables**
4. **Set Record Speed And Record Lock**

## 1. Connect Camera Inputs

- 1.1 On the rear panel, connect cameras to the top video inputs of the connector pair for each camera to be installed, using input 1 first. When the camera is not looping through to another device (i.e. monitor) then the unit will automatically terminate the video signal with a 75 ohm load. See Figure 1-1.

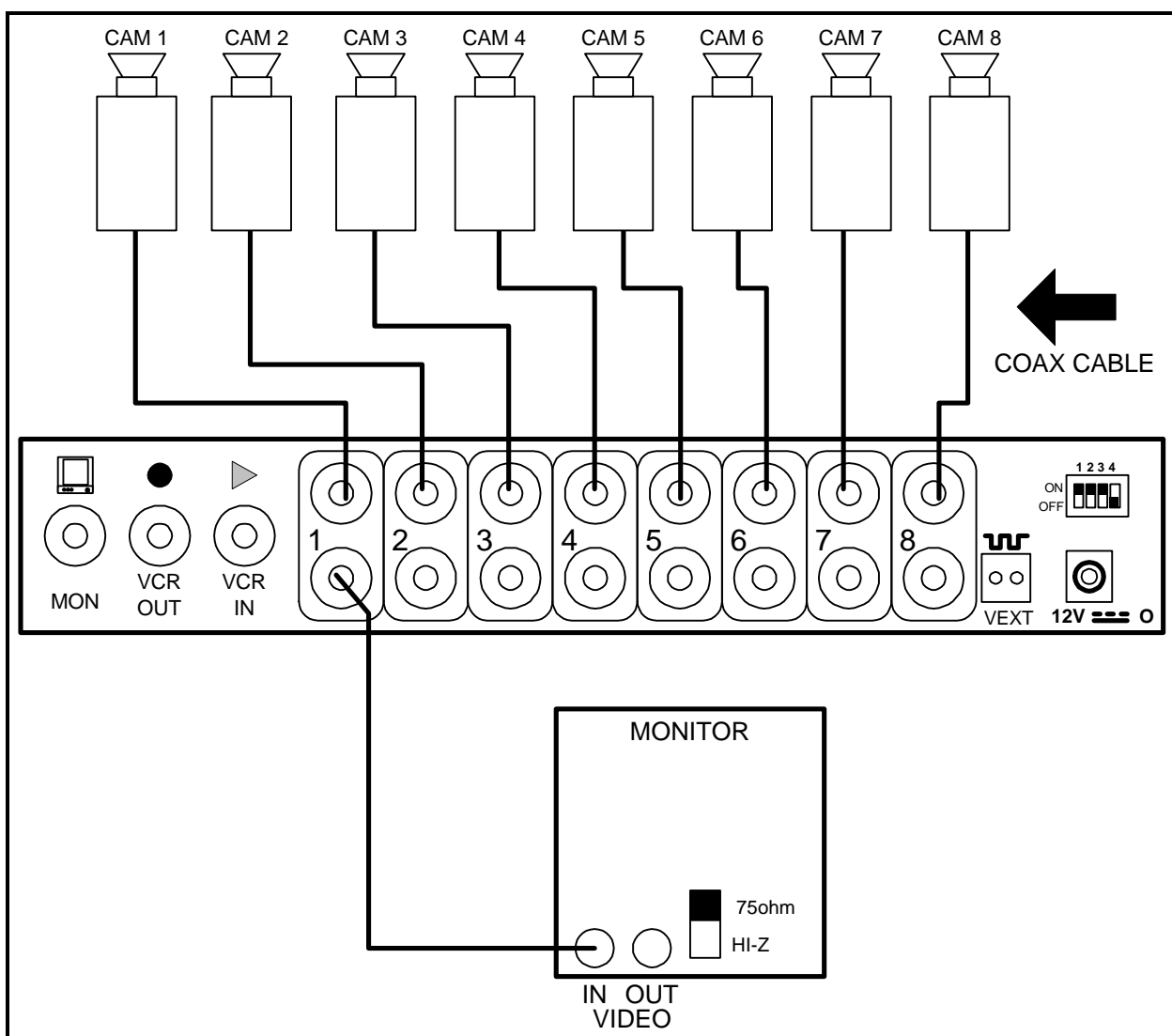


**Figure 1-1.** Camera Connections - JMMS8

### NOTE

If the camera input is connected to the lower BNC connection, the unit will not operate in the proper manner.

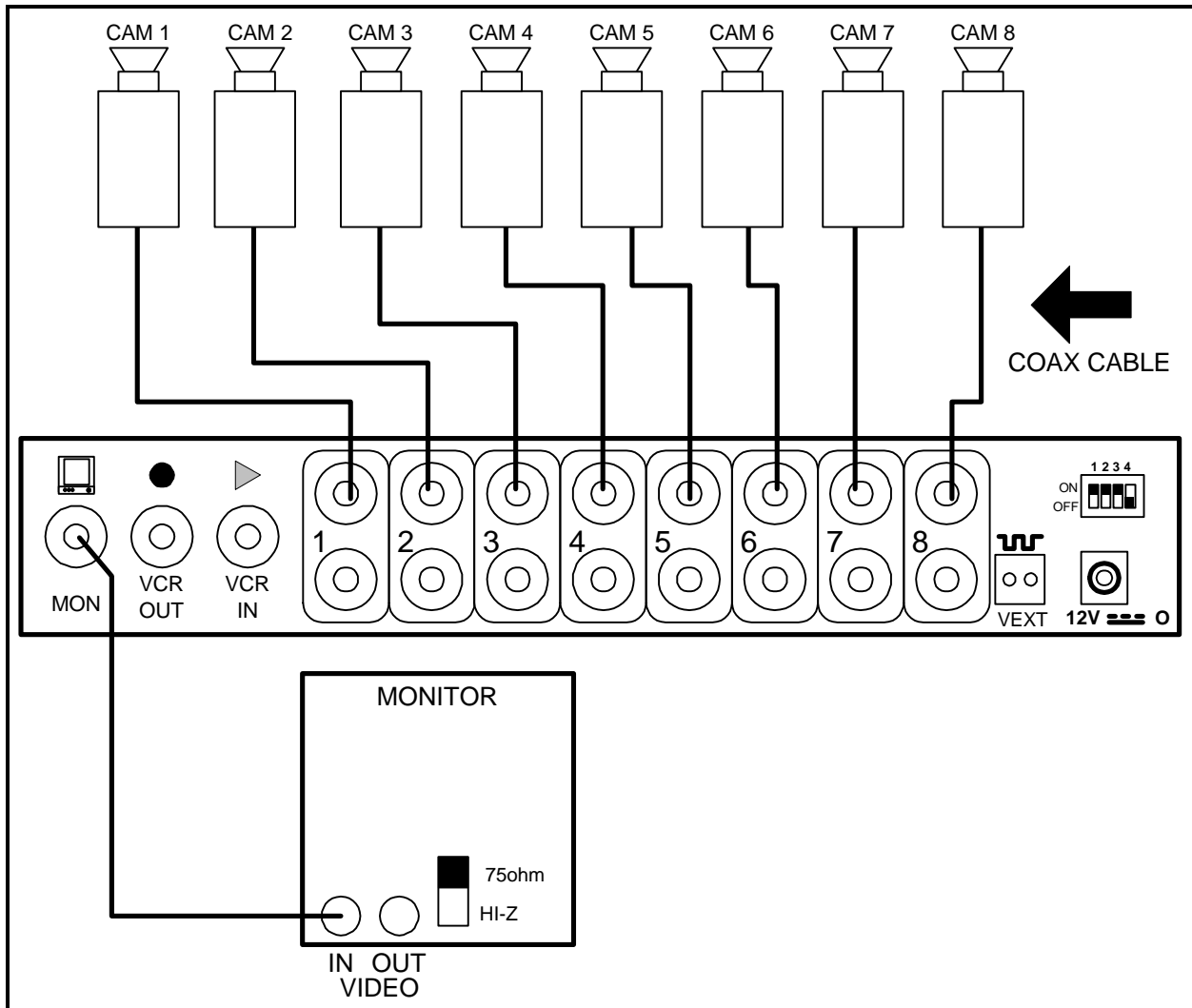
- 1.2** If a camera is looped through from the lower connector to another device, the unit automatically switches to unterminated High Z. See Figure 1-2.



**Figure 1-2.** Terminating The Video Signal With A 75 ohm Load

## 2. Connect Monitor Output

Connect the monitor to the output on the rear panel of the unit. See Figure 2.

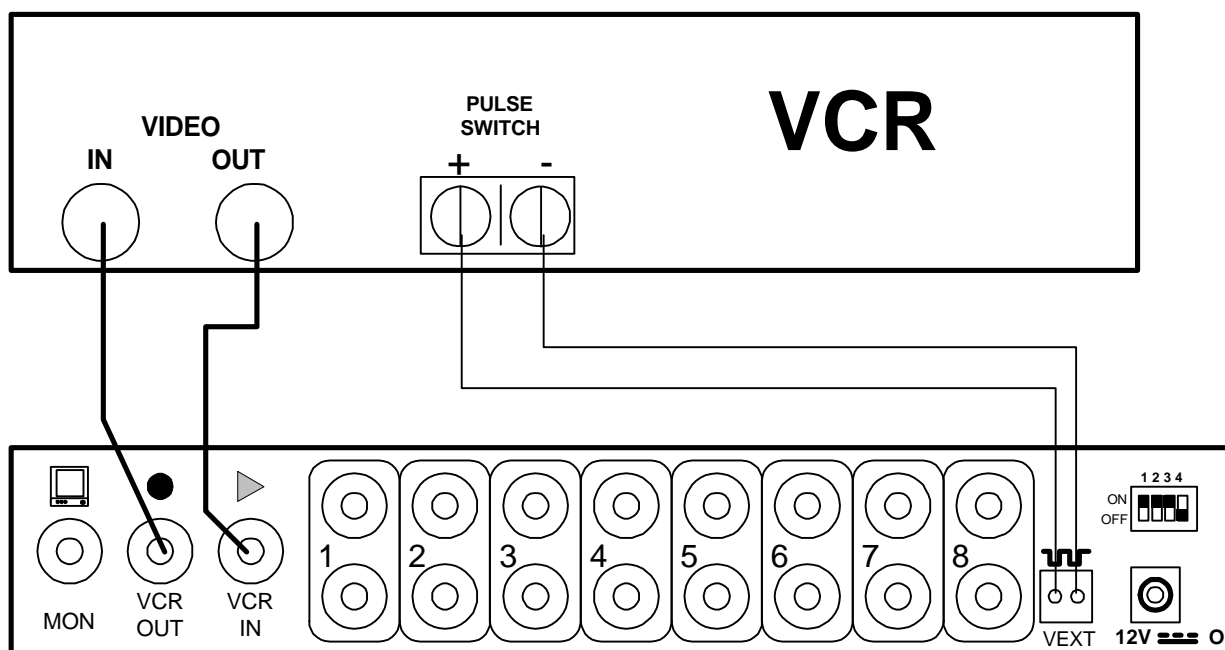


**Figure 2.** Monitor Connection

### 3. Connect VCR Cables

#### 3.1 Video Cables

Connect the record output (VCR OUT) on the rear panel to the VCR's video input. Connect the play input (VCR IN) on the rear panel to the VCR's video output. This setup allows the operator to record all cameras unless the VCR is being used for playback. See Figure 3.



**Figure 3. Connect VCR Cables**

#### 3.2 VCR Synchronous (Record Timing) Cable

This will synchronize the VCR head switch pulse and the multiplexer frame capture rate. This will ensure proper recording. Connect the switch pulse positive out from the VCR to the left terminal on the Vext connector. Connect the common of the switch pulse to the right terminal of the Vext connector. If the multiplexer accepts the connection from the VCR, the Vext LED will illuminate and flash at the VCR head switching rate. See Figure 3 or 4.

## 4. Set Record Speed And Record Lock

### 4.1 Record Speed

If the VCR's Vext output is not connected to the unit, the JMMS8 will send fields to the VCR from all connected cameras at the time lapse speed that is set by the dip switches (1-3) on the rear panel. In this case it is essential that the JMMS8's time lapse speed be set the same as the VCR's time lapse speed. Figure 4 illustrates the rear panel. A table shows the dip switch settings for the available speeds of the JMMS8.

### 4.2 Record Lock

This option is used to lock the JMMS8 in the record mode. The play button is disabled. All other record mode operations are available. To lock the unit in the record mode, set switch number 4 on the rear panel to **ON**. Figure 4 illustrates the rear panel.

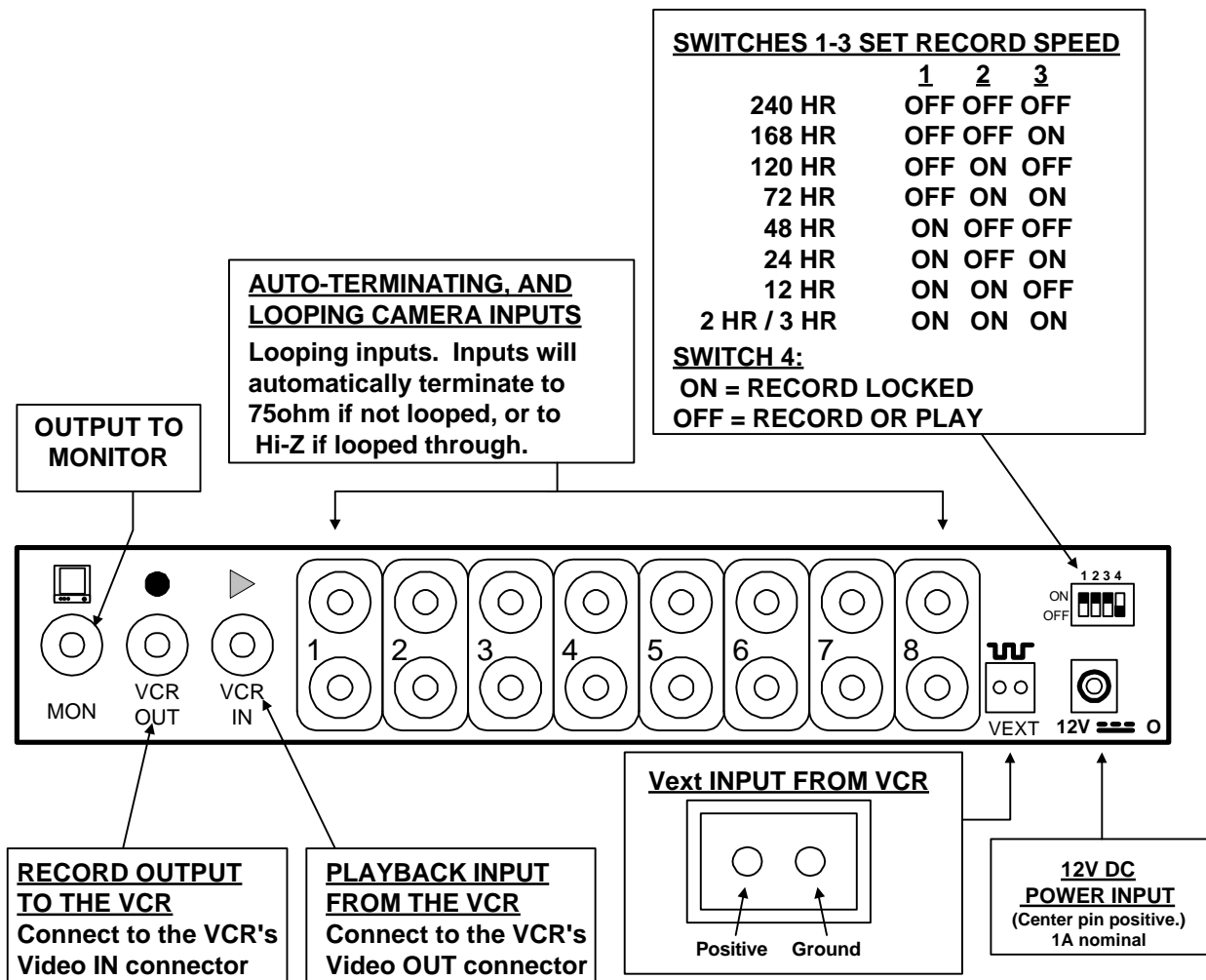


Figure 4. JMMS8 Rear Panel



## **NOTE**

### **READ ALL OPERATION AND PROGRAMMING PROCEDURES BEFORE OPERATING THE UNIT**

**It is essential to read and understand the setup and  
operation before proceeding.**

## **POWER UP AND TEST**

1. Power up the cameras and monitor.
2. Power up the unit. The record LED will be lit which indicates that power is on and is in the record mode.
3. Defaults: JMMS8 is in record mode, record speed is 2 hour, record lock is OFF and the dwell time for record and playback sequence is 3 seconds per connected camera.
4. Select each camera full-screen on the monitor and check picture quality. If any picture quality is poor, check the loop-through terminations, line amplifiers, incoming signal levels and ground loops. If any picture quality is still poor, check the camera iris settings, including auto-iris settings. Try to adjust each camera to match the picture quality of the best camera. When comparing cameras, keep the monitor settings the same.
5. Check the VCR record and playback modes to ensure that the multiplexer is in sync with the VCR.