

# VLM473

## VIDEO LOSS MONITOR

INSTRUCTION BOOK

IB6296-02  
4-16-96

## TABLE OF CONTENTS

<u>DESCRIPTION</u>	<u>2</u>
<u>MOUNTING INSTRUCTIONS</u>	<u>2</u>
<u>HOW TO CABLE THE VLM473</u>	<u>2</u>
<u>POWER SUPPLY INSTALLATION</u>	<u>2</u>
<u>BATTERY BACK-UP OPERATION</u>	<u>3</u>
<u>PROGRAMMING THE SOURCE IDENTIFICATION</u>	<u>3</u>
<u>OPERATION</u>	<u>3</u>
<u>CARE AND MAINTENANCE</u>	<u>3</u>

## DESCRIPTION

The VLM473 VIDEO LOSS MONITOR is a device that monitors a base-band video signal and gives a visual indication upon loss of that video. When the normal video signal is lost the VLM473 generates video synchronization pulses and displays video graphics. The message displayed on any monitor receiving the base-band signal reads "SOURCE OFF". You can program the unit to also identify the source video with the numbers 0-4 using the internal program jumpers. The unit uses a high impedance loop-through input that prevents any loading or distortion of the base-band signal being applied. No distortion or interruption of video will occur even when the power supply is removed. Because the unit creates its own video synchronization upon loss of video the video path will be continuous. This unit can be used to establish an unambiguous test of video continuity. The VLM473 has an LED to indicate when the unit is generating its own video synchronization pulses and graphics.

## MOUNTING INSTRUCTIONS

The rugged one piece mounting structure allows you to mount the unit firmly in place with two screws. Select a place to mount the unit indoors, away from harsh or wet environments. The VLM473 can be mounted anywhere in the base-band signal path. Select a position that gives you the best access to cable the system and reduces the labor in installation.

## HOW TO CABLE THE VLM473

Connect the video source you wish to monitor to the "VIDEO IN" BNC connector and out of the "VIDEO OUT" connector. We call this VIDEO LOOP THROUGH. It is not necessary for power to be on at this time, the video path will only be interrupted during the cable attachment.

## POWER SUPPLY INSTALLATION

The VLM473 is powered by a 24 VAC wall mount power transformer. Connect the 24 VAC power transformer to the Green terminal block marked AC 24V. At this time you will see the Green LED turn on to indicated power up, it will be on or be flashing on and off, depending on the video status.

## BATTERY BACK-UP OPERATION

In high security installations it is advisable to connect battery back-up. Use a 24VDC **FLOATING** lead acid or gel-cell battery and connect the wires to the green connector block marked +/- BATT. Be careful not to ground either the positive or the negative battery terminal (Floating) and observe the battery polarity. After installation of battery back-up the unit will operate during a power outage. During a black-out or even a brown-out the power for the unit will automatically transfer to battery and then back again to the AC power when power returns. This unit will trickle charge the battery.

## PROGRAMING THE SOURCE IDENTIFICATION

Programming the source identification is done with Jumper Jacks on the inside of the box. Open the box by removing the 4 screws in the outer most corners of the box. Lift up the lid and look for the Black selection jumper. To select a source ID position the Jumper Jack on one of the numbered pins. The video display will change with each new selection after either the power has been cycled off and on again or the video has been removed and connected. Use the table below to select the display you desire.

JUMPER # OFF	VIDEO DISPLAY
1	"SOURCE 0 OFF"
2	"SOURCE 1 OFF"
3	"SOURCE 2 OFF"
4	"SOURCE 3 OFF"
Field	"SOURCE 4 OFF"
NO JUMPER	"SOURCE OFF"

## OPERATION

When the power is connected you will see the green LED light up. If the video to be monitored is present the LED will be on solid. If the video is not present, the LED will be flashing, this indicates the unit is producing its own video and is displaying the "SOURCE OFF" message.

## CARE AND MAINTENANCE

There is no routine maintenance or calibration required with this equipment. There are no controls to adjust inside the box. Open the box if necessary only to program the desired source ID.