

VCD-43

ADVANCED VIDEO CAMERA DETECTOR INSTRUCTION MANUAL

ABOUT THE VCD-43

Batteries: Two 9 volt alkaline transistor type.

Frequency Response: tuned to 15.75 KHz

Display LEDs:

Green: Power on.

Yellow: Lock – Flashes when unit is acquiring a signal.

On steady when the unit is locked onto a signal.

Red: Four-step signal strength meter.

THEORY

Video cameras contain a horizontal oscillator which operates at 15.75 KHz. This signal is radiated from the camera at a very low level and can be picked up by a specialized Very Low Frequency (VLF) receiver such as the VCD-43.

GETTING STARTED

If the batteries have not been installed, go ahead and install them now. Use Eveready or Duracell alkaline or equal. The battery compartment is accessed by separating the case top from the bottom. Connect each battery to a battery snap and reinstall the cover.

Plug the VLF antenna into the RCA jack located on the top end of the unit.

Note: The VLF antenna furnished with this VCD-43 is matched (tuned) to this unit. If the antenna becomes lost or damaged, it will be necessary to return the entire unit so that a new antenna can be matched to it.

FINDING VIDEO CAMERAS

Because they use the same horizontal frequency as video cameras, any televisions in the area should be turned off. Otherwise, you will get false indications from the TV. Also, the ballast in some fluorescent lamps emits a signal in the same frequency range, so turn them off, too.

Turn the unit on and set the *Sensitivity* control to MAX. The Green Power On LED should light. The Yellow LED will come on briefly as the unit performs a self-test and

then it will go off. Slowly walk around the room while sweeping the VCD-43 slowly up and down from ceiling to floor.

If there is an operating video camera in the room, the Yellow LED will begin to flash. As you approach the camera, the Yellow LED will come on steady indicating that the unit is locked onto a valid signal and the Red LEDs will come on in order as the signal strength increases.

The VLF antenna used with the VCD-43 is directional with maximum signal pickup off the end of the antenna. This directional characteristic can help you pinpoint the location of the video camera.

When the Red LEDs come on, simply turn the VCD-43 so that the antenna faces different directions. The direction of the strongest pickup indicates the camera direction which will either be from the top or bottom end. If the signal gets stronger as you move forward, then the camera is to the front. Otherwise, it's behind you.

The *Sensitivity* control can be used to help zero in on the location of the camera. Just reduce the *Sensitivity* setting until the Red LEDs begin to go out. Then sweep the VCD-43 back and forth as you move forward. The LEDs will again glow brightly as you move closer to the camera.

PRACTICE

If you don't have a video camera to practice with, you can use a TV to see how the VCD-43 will react to a video signal. Just remember that a TV puts out a much stronger signal than a video camera.