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# **Safety Information Sheet**

# **Digital Pipe Locator**

The Gen-Eye G3 locator can detect two types of signals:

- Active signals are placed on a target line with the transmitter and detected by the locator. An active signal from a camera can also be detected by the locator.
- Passive signals reside on the target line and are read by locator.

#### **Camera Location**

Camera signals allow the user to trace the camera in either metal or nonmetal pipes.

### **Active Line Location**

There are two ways to place active signals on a target line with a transmitter:

- **Direct connection** (preferred method) requires a connection to be made directly onto target line.
- Broadcast method sends current into lines near the transmitter.

## **Passive Power Line Location**

Some utility lines pick up signals from the environment and carry them as detectable signals. These are power signals.

#### **CHOOSE ANTENNA CONFIGURATION**

The Gen-Eye locator has three antenna configurations:

**Twin Peak**—Uses two horizontal antenna to detect signal. Response is highest at strongest signal.

**Null**—Uses a vertical antenna to detect signal. Search width is narrower than single peak. Response is lowest when locator is over the line.

**Left/Right**—Uses arrows to guide the operator to the camera or target line.

**IMPORTANT:** It is best to verify left/right location using twin peak antenna.

## **RECOGNIZE COMMON SIGNAL PROBLEMS**

Distortions in the field around a camera or line can affect location and depth accuracy. Tees, bends, parallel lines, crossing lines, or metallic objects can distort signals.

**NOTICE:** If target depth and location are critical, confirm by hand digging or vacuum excavation.

Learn to recognize the following kinds of distortion:

#### **Shadows**

Shadows, also called blind spots, often happen when a metallic object partially obstructs signal

### **False Signals**

False signals describe where the locator indicates a line location where there is no line. False signals happen when a line tees or bends, runs parallel to the target line, or crosses the target line.

**IMPORTANT:** Generally, the locator shows less distortion in twin peak antenna configuration.

# Set Up

- 1. Turn on power switch on Gen-Eye command module.
- 2. Turn on locator and check that the battery indicator shows at least one bar. Replace batteries if needed.
- 3. Press the FREQ button until locator frequency matches transmitter frequency.
- 4. Press the ANT SEL button until indicator points to TWIN, indicating twin peak antenna.
- 5. Press the up arrow so that the gain bar is at the maximum setting.

#### Locate

- 1. Hold the locator so that the handle is at a 90° angle to the camera head, as shown.
- 2. Walk in a small arc around the drain opening.
- 3. Identify location of camera by finding the spot with the strongest signal response.
- 4. Sweep the locator along the camera path until you obtain a peak reading.
- 5. If the display indicates a maximum signal of 100, reduce gain. Press the down arrow to keep gain at approximately 50-70%.
- 6. Repeat steps 4-5 to narrow your search area.

**IMPORTANT:** A ghost signal may appear before and behind the peak reading. Press the down arrow to lower gain until you receive only one signal.

- 7. When you receive only one signal in a 1 ft2 (0.1 m2) area, you've located the camera. Mark the spot.
- 8. Set the locator on the ground and press the DEPTH button to estimate depth.

## Operating Tip

The closer the camera is to the drain opening, the easier it is to locate.

- Push the camera 5-10' (1.5-3.0 m) into the pipe and do the first locate. Mark the spot.
- Push the camera another 5-10' (1.5-3.0 m) and repeat until the entire pipe is traced and marked.