



## **OPERATING INSTRUCTIONS**

### **PST-500FL PROGRAMMABLE SYNTHESIZED MINIATURE FLYING LEAD VOICE TRANSMITTER**

#### **INTRODUCTION**

**AID** is the world's largest manufacturer of electronic surveillance devices. We are proud to be your chosen supplier of intelligence equipment. Our products are available exclusively to certified law enforcement personnel, and are precisely engineered and carefully manufactured to serve your professional needs.

This instruction manual explains the correct way to operate the device for optimal performance. To insure reliability, the operator should study this manual before using the equipment.

If there are any questions concerning the proper operation or application of any of our products, please contact your personal regional sales representative or our factory for immediate assistance.

Courses in the use and techniques of intelligence equipment are available at our *National Intelligence Academy*, the law enforcement training division of *AID*. Please call (954) 255-2640 for further course information.

CALL: (800) 243-4642

#### **DESCRIPTION**

The model PST-500FL Programmable Synthesized Miniature Flying Lead Voice Transmitter is a synthesized dual channel, VHF-FM transmitter, operating within a frequency range of 150 – 174 MHz (standard) or special order frequencies of 130 – 150 MHz and 216 – 200 MHz. The RF power output of the PST-500FL is 500 mW (1/2 Watt).

The PST-500FL utilizes a built-in (internal) electret microphone, external electret microphone and a set of external antennas. The supplied antennas attach directly to the SMA connector of the PST-500FL. The set consists of three-marked antenna's covering the band of 150 to 174MHz.



For maximum efficiency, the set of antennas are tuned to cover the following frequency ranges:

1. 150MHz through 158MHz
2. 158MHz through 166MHz
3. 166MHz through 174MHz

An external 6 V (four type AA, or equivalent) alkaline batteries powers the unit. The battery holder is terminated with a polarized female power connector that mates directly with the transmitter's polarized power male connector.

## **UNPACKING**

Unpack the unit carefully. If any damage is apparent, notify the shipping company at once.

Check to ensure that all components ordered were received. Do not discard shipping carton or packing material. In the event that the unit has to be returned use the original packaging.

## **OPERATION**

1. Connect antenna to the PST-500FL SMA connector. Make certain that the proper frequency band of the antenna matches the preprogrammed frequency of the transmitter.
2. The PST-500FL operates with either internal or external electret microphone.

**NOTE:** When an external microphone is inserted into the microphone jack the internal microphone is disabled and the external microphone is enabled.

3. Connect battery power connector to the transmitter power connector.
4. To turn the transmitter "ON", install the batteries into the battery holder with the proper polarization.
5. To turn the transmitter "OFF", remove the batteries from the battery holder.

**NOTE:** Any time the transmitter is in the "ON" position, all nearby conversations will be transmitted.

### **CAUTION:**

Damage to the transmitter may result if;

1. The external antenna has NOT been connected **before** the batteries have been inserted into the battery holder.
2. The batteries are inserted in the battery holder backward (reversed polarity).



## **MAINTENANCE**

If the transmitter appears to be inoperative, check the following:

1. Check batteries for proper voltage.
2. Check that the batteries are installed properly.
3. Check that the antenna is installed properly and the correct antenna being used is tuned for the particular frequency of the transmitter.
4. Check that the receiver is on the same frequency as the transmitter.