

**THE A2**  
**RECEIVER SYSTEM**

2-kc to 1200-mc

one million to one  
frequency reception,  
portable, battery operated  
with visual display unit

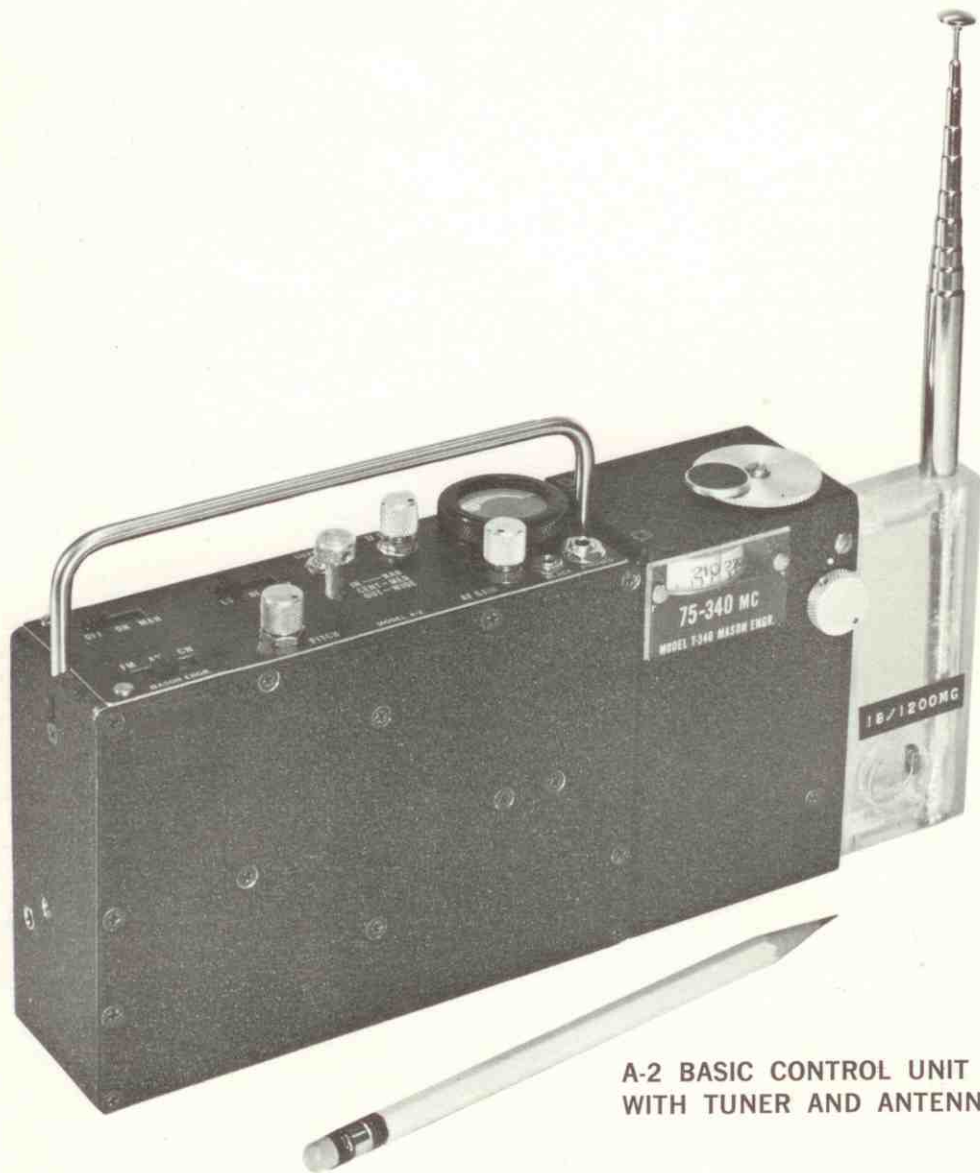


**F.G. MASON ENGINEERING INC.**

**THE F. G. MASON ENGINEERING COMPANY** offers a broad range of engineering services and facilities for research, manufacturing and testing all portions of electromagnetic receivers from the antenna through audio and visual outputs.

The company designs and manufactures miniature, solid-state, wide-range, battery-powered surveillance receiving equipment covering the LF range up to UHF. This equipment is widely used throughout the United States.

At present the company is devoting major research efforts to the development of receivers for microwave frequencies and a miniature, general-purpose oscilloscope.



**A-2 BASIC CONTROL UNIT  
WITH TUNER AND ANTENNA**

## DESIGN FEATURES

### PORTABILITY

The Mason A-2 Receiver answers the need for a truly portable, wide-band, surveillance receiver for use in remote areas as well as on aircraft, ships, or other vehicles.

In the Mason A-2 Receiver, the conventional heavy, bulky main chassis has been eliminated. Its building block design permits the complete system to be disassembled easily to fit into a small carrying case.

The small tuning units, each covering a different frequency range, a visual monitor unit, and external power sources are connected simply by plugging them into the basic unit. To change the frequency range, the appropriate tuner unit can be substituted quickly, in a matter of seconds.

Because of their small size and light weight, the tuner units of the A-2 Receiver System can be hand-held while in use and connected by a cable to the basic control unit, which can be mounted on the operator's belt.

To save battery wear, the Receiver System can be used directly from any AC current outlet.



### AUDIBLE AND VISUAL OUTPUTS

Lightweight headsets are supplied for normal listening to AM, FM, and CW signals. A signal strength meter is included for visual indication of relative strength of the signals being monitored.

A unique visual monitor aids greatly in signal searching applications. The tuned frequency and adjacent spectra are scanned and presented on the display tube. Signals thus monitored can be analyzed for relative signal strength, type of modulation, and other technical information.

Each tuner unit has a direct frequency-reading tape dial. The dials are individually calibrated.



### FASTER AND WIDER FREQUENCY COVERAGE

A total of eleven tuner units cover a frequency range from 2-kc to 1200-mc. Each tuner unit has its own tuning element, specialized circuitry, and calibrated dial. This permits maximum sensitivity and selectivity without compromise. Having separate tuning, control, power and output units allows for simple, in-the-field changes for repair, special setups and future replacement or additional units. As an added feature, antennas are interchangeable and can be plugged into the tuner receptacle.

