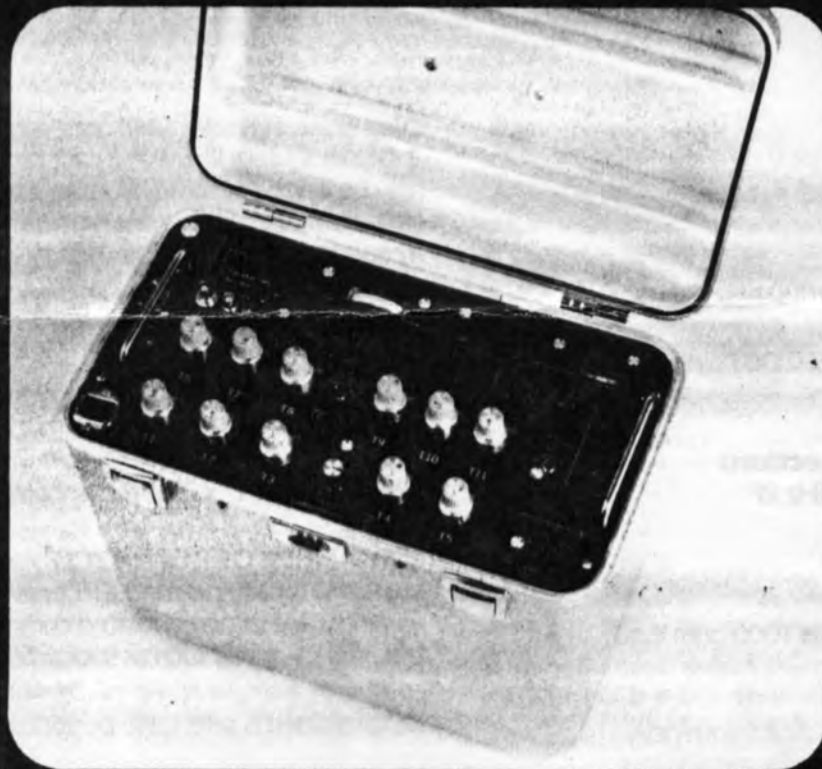


Mason A2C

Audio Countermeasures Receiver System



Model A2CS

The purpose of the A2C Audio Countermeasures Receiver System is to search the radio frequency spectrum and identify transmissions emitted by electronic eavesdropping devices. Although the system features sophisticated signal reception, processing and readout functions; utilization of such up-to-date circuits as an internal automatic switching matrix, frequency counter microprocessor and L.E.D. switch position indicators, allow non-technical operators to use the A2C to its full capacity.

Features: Model A2CN

- 20 KHz - 2000 MHz RF Reception
- Simultaneous Audio/Spectrum Display
- AM, FM, CW and Visual outputs
- 3 IF bandwidths (2 Crystal Band Pass Filters)
- 3 microvolts sensitivity
- Visual Display Sweep widths to 5 MHz
- 6 Digit accurate Frequency Display
- Internal coaxial antenna switching
- Single unit integrated package
- Minimum number of accessories required
- Built-in speaker or earphone operation
- Battery or AC operation (110/230 VAC)
- L.E.D. panel indicators show proper switch positions for different frequencies (Bandwidth, AM/FM, sweepwidth)

Features: Model A2CS

- All features as per A2CN plus
- Simultaneous subcarrier display on second oscilloscope along with primary audio and RF display
- AM and FM detection of subcarrier modulation
- Simple "mode" switch selects primary audio or subcarrier audio output
- "Mode" switch also selects primary or subcarrier frequency for digital display
- Subcarrier receiver section tunable to 300 KHz
- Ceramic filter employed for selectivity

Mason A2C Audio Countermeasures Receiver System



Model A2CN

PRICE (3/15/80)

A2CN - \$9,900

A2CS - \$11,400

Specifications

RECEIVER MODE

RF: 20 KHz - 2000 MHz

Sensitivity: 3 uv for 6 DB S + N/N
(5 uv above 1000 MHz RF)

IF Bandwidths: 20, 90, 1000 KHz

Slope Factor: 2.6/1 for 6/60 DB Points
except in 1000 KHz position

Spurious Response Rejection:
30 DB minimum to 1000 MHz RF

BFO: Crystal controlled

Audio Output: 6.5 mw to 1000 ohm load
plus internal loud speaker

Frequency Indicator: 6 digit frequency
counter senses local oscillator frequency and
offsets count by IF for true RF display

Frequency Display Accuracy: All digits
displayed are accurate except last right hand digit.

Signal Meter: Indicates relative field strength
of modulated or unmodulated signals

AC Power Supply: 115 ± 20 v, 230 ± 20 v,
50/60 Hz, fully insulated from power mains

Operating Temp: + 30° to + 120° F

Storage Temp: - 20° to 150° F

Fine Tuning: Fine tuning provided on all bands.

VISUAL MODES

Dispersion: 6 selectable dispersions from
3 KHz to 5 MHz, linear and calibrated. (Note: Dispersion
may be limited at some RF frequencies due to RF bandwidth
limitation. Also dispersions higher than 1/10 RF
frequencies should not be used.)

Resolution: 2 KHz

Dynamic Range: Signals up to 40 dB level differential
can be simultaneously displayed to maximum resolution.

Screen Size: 1" x 2½" rectangular

SUBCARRIER OPTION (A2CS)

Visual Display: Second CRT provided for frequency
vs. amplitude of demodulated components of
the primary signal such as subcarriers

Dispersion: 6 selectable positions to 100 KHz

Resolution: 10 KHz (Ceramic Filter)

RF Range: 10 to 300 KHz

Listen Mode: AM or FM audio output to
internal speaker or headset

Frequency Indicator: Uses digital frequency
counter display in "listen" mode. Calibrated tape
dial is used in "search" mode.

*The A2C System may be ordered either with the
subcarrier detection system (Model A2CS) or without the
subcarrier detection system (Model A2CN). This optional
system may be factory added to a Model A2CN at a later
date to convert it to an A2CS model.*



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