

## SR-502-1



### LF-HF RECEIVER FM-AM-CW

Tunes 10 KHz-30MHz with two plug-in units;

TU-511 P (10-500 KHz)

TU-521 P (0.5-30 MHz) -

SR-502-1 Provides FM-CW-USB-LSB-AM reception

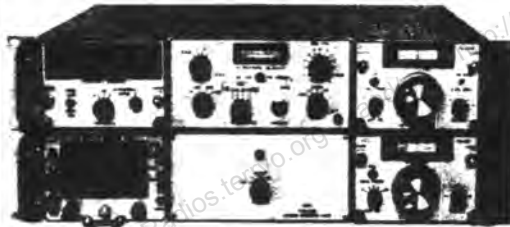
Plug-in modular capability of the SR-502-1 ensures a highly versatile

LF-HF receiving system. Plug-in units which can be used with the SR-502-1 are:

- FRO-501 P-1 For digital display of received frequency and optional digital AFC (DAFC) stabilization of receiver local oscillator.
- HFS-501 P Provides a synthesized local oscillator to tune from 2-30 MHz in 100 Hz steps. Remote tuning capability.
- BP-201 P Enables the SR-502-1 to operate as a battery powered receiver for up to 8 hours from a rechargeable pack.
- SDU-100 P Displays signals present in the IF passband of the tuner.

## SR-502-1 /PHU

10 KHz-30 MHz



### LF-HF RECEIVING SYSTEM DIGITAL FREQUENCY DISPLAY

Various Powered Housing Units (PHU) are available for use with the SR-502-1 receiver. These units permit many combinations of plug-in tuners, signal display units, and frequency readouts to be assembled for special applications.

The combination pictured provides 6 digit frequency readout and signal display from 10 KHz to 30 MHz.

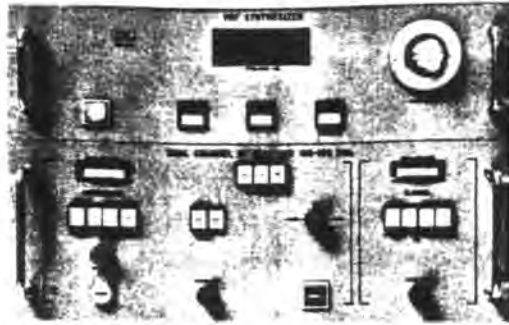
## SR-201A



### VHF RECEIVER FM-AM-CW-PULSE

30-300 MHz in two bands: 30-100 MHz and 90-300 MHz. Three IF bandwidths available: 20 KHz, 300 KHz, and optional third bandwidth chosen from the standard ACL surveillance IF amplifier/demodulators. A low intermodulation distortion version is available as SR-201 C.

**DCR-201**  
DIGITAL CONTROL  
SYNTHESIZED  
LOCAL  
OSCILLATOR



**VHF-UHF RECEIVER**  
FM-AM-CW  
DUAL CHANNEL

The DCR-201 with DCS-201 synthesizer tunes from 100-160 MHz. 100 Hz resolution LED display with tuning accuracy of  $\pm 50$  Hz; voltage tuned pre-selector filters and FET switching make this receiver completely computer controllable. This type receiver is also available in single channel versions. Receivers covering up to 4 GHz are under development.

**SR-209\***



**VHF-UHF RECEIVER**  
FM-AM-CW-PULSE

The first modular solid state receiver to cover the 20 MHz - 7 GHz range using 8 plug-in tuners. Standard IF bandwidths are available from 10 KHz to 4 MHz. Up to 3 may be installed as switch selectable. Additional plug-in units which can be used with the SR-209 are:

- FRO-201P-1\*\* For digital display of received frequency and digital AFC stabilization of tuner local oscillator.
- BP-201P Enables the SR-209 to operate as a battery powered receiver for up to 8 hours from a rechargeable battery.
- SDU-102AP Display of signals in the IF passband of the tuner in operation.

\*An RFI proof version of this receiver is available as the SR-209B with RFI proof plug-in tuners.  
\*\*For RF frequencies above 300 MHz - use FRO-212-1.

**SR-209/ESH  
MAN/SCAN**  
30-1000MHz



**VHF-UHF RECEIVER**  
FM-AM-CW-PULSE

Designed to provide the ACL SR-209 and SR-209-4 (AN/GLR-9) receivers with electronic scan operation; the ESH-200 series electronically swept tuners cover the 30-1000 MHz range using 4 plug-in units. For electronic scan operation, the ACL signal display unit SDU-102AP is used as the source of tuning ramp voltage, and also to display the spectrum of the band swept.

In the sweep (scan) mode of operation, a marker can be applied to the display which represents the position of the manual tune function. This enables the operator to preset his manual frequency on a signal of interest during scan operation before switching to manual.

Normally the SDU is used as the display with these units. In the sweep (scan) mode, the total band of frequencies is displayed. In manual mode, the SDU presents  $\pm 1.5$  MHz of center tuned frequency.

## FRO-201P

10 KHz-300 MHz



## PLUG-IN FREQUENCY READOUT

(LF/HF/VHF Electronic Counter)

The FRO-201P operates as a plug-in counter in the SR-209 type receivers to provide receiver tuned frequency indication with various ACL tuners from 2 MHz to 300 MHz. This plug-in can be operated in an ACL powered housing unit and has a direct (no-offset) input for operation as a 10 KHz - 300 MHz electronic counter. Digital AFC (DAFC) output can be provided as an option for stabilization of receiver local oscillator. A restructured version for use in ACL MIL-TYPE receivers is available as FRO-250P.

## FRO-203P

50 KHz-500 MHz



## PLUG-IN FREQUENCY READOUT

(LF/HF/VHF Electronic Counter)

The FRO-203P provides all of the features of the FRO-201P, and in addition will operate in SR-209 type receivers to provide receiver tuned frequency indication with various ACL tuners from 2 MHz to 500 MHz. Frequency readout presentation utilizes 6 LED numerical indicators.

## FRO-212

1 KHz-3GHz



## FREQUENCY READOUT

(LF-UHF Electronic Counter)

This 3½ inch high counter operates with all ACL tuners and receivers to provide receiver tuned frequency indication from 2 MHz to 4 GHz. The FRO-212 will also operate as a direct (no-offset) counter over the range of 1 KHz - 3 GHz. Input sensitivities of -13 dBm to 120 MHz, -10 dBm to 2 GHz, and -6 dBm to 3 GHz. DAFC is available as an optional feature for stabilization of receiver.

## SP-201

TUNABLE  
60-160 MHz  
and FIXED  
21.4 MHz INPUTS



## SIGNAL PROCESSOR

(IF DEMODULATOR UNIT)  
FM-AM-CW-PULSE

The SP-201 is designed for operation with any VHF or UHF tuner or converter that has an output frequency of 21.4 MHz or any frequency between 60-160 MHz. Up to 10 plug-in IF amplifier/demodulator cards may be selected by a front panel switch. These are the same amplifier/demodulator cards used in the SR-209. SDU, audio, video, and AGC voltage outputs are provided.