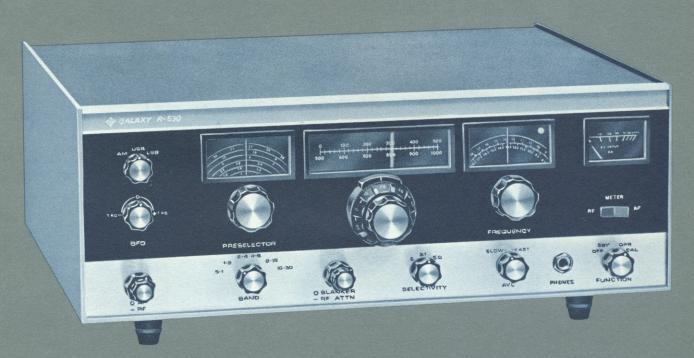
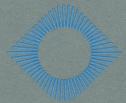
# New <u>Dimension</u> of EXCELLENCE in Professional Communications—





The Superb GALAXY R-530 Communications Receiver

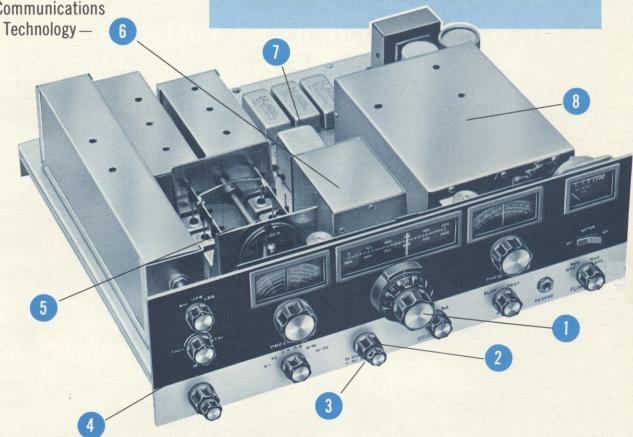
# galaxy R-530

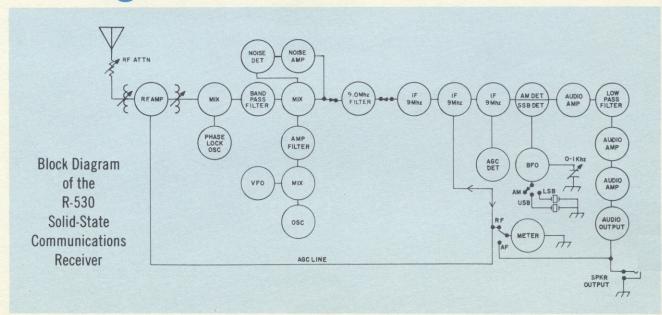
SOLID STATE RECEIVER

A New Dimension in EXCELLENCE in the field of Communications Technology■ CONTINUOUS COVERAGE (0.5-30 MHz)

SOLID STATE MODULAR CONSTRUCTION

– are the result of three years of exhaustive research!





## Some of the Outstanding Features of the R-530





MAIN TUNING DIAL— Visual resolution of frequency is accurate to 1KHz. A unique fiducial provides calibration and tuning dial correction each 50 KHz...throughout entire receiver frequency range.

NOISE BLANKER—A newly designed circuit ... effective in reduction of unwanted background noise and interference. Especially useful when receiving SSB and CW signals.

RF ATTENUATOR – Variable attenuation at antenna terminal, improves front-end overload characteristics. Permits positive control of cross-modulation especially during monitoring use.

VARIABLE BFO—Operative in USB, LSB, CW and RTTY modes of reception. Provides proper adjustment of BFO for line and RTTY operation.

PRE-SELECTOR – Permeability tuned insures optimum performance across entire frequency spectrum. Reduces cross-modulation and insures minimum gain variation over entire spectrum.

PTO – The Permeability-Tuned-Oscillator provides outstanding linearity, stability and frequency reset capability.

CRYSTAL LATTICE FILTER—The standard 2.1 KHz filter gives a near-rectangular IF bandpass, insuring optimum selectivity. Optional 0.5 and 6.0 KHz filters are available.

PHASE-LOCK OSCILLATOR — Frequency determination in the R-530 is accomplished with a Phase-Locked Frequency Oscillator. Eliminates the necessity of multiple crystals and bandswitch problems as well as insuring the optimum in stability.

SPECIFICATIONS:

Receiver Type: RF Superheterodyne, dual conversion, solid state.

Frequency Range: 0.5 to 30 MHz continuous

Frequency Readout: 1 KHz over entire 500 KHz tuning range of PTO

Frequency Stability: From turn-on no more than 100 Hz, including 20% line voltage variation

Calibration Accuracy: 1 KHz with 50 KHz calibrator

Backlash: Less than 100 Hz.

Metering: RF calibrated 0 to 80 db above 1 microvolt, AF calibrated -6 to +4 dbm (600 ohm balanced line)

AGC: Selectable FAST or SLOW-Attack time less than 5 milliseconds, with slow release time 2 seconds; fast release time 500 milliseconds. Less than 6 db output change from 1 to 30,000 microvolts.

Sensitivity: 0.1 microvolts for 6 db signal plus noise to noise ratio SSB; 0.05 microvolts for 6 db signal plus noise to noise ratio CW; 0.5 microvolts for 6 db signal plus noise to noise ratio AM

Selectivity: 2.1 KHz crystal lattice filter, 1.8:1 shape factor, SSB. Optional filters for CW (0.5 KHz) and AM (6.0 KHz) are available and all are front panel selected

Inter-Modulation Distortion: 3rd order suppressed more than 50 db

Front-end Overload: 0.1 volt for 10% distortion (On Signal)

RF Signal Attenuator: Variable line attenuator provides 0-20 db attenuation of signal before reaching receiver front-end.

Harmonic/Spurious Response: All spurious and harmonic suppressed more than 50 db.

Noise Blanker: Adjustable for optimum performance on SSB and CW

Functional Service: AM, CW, SSB (Selectable USB & LSB) and RTTY. Variable BFO utilized in CW mode tunable plus or minus 1 KHz.

Audio Output Level: More than 1 watt with less than 10% distortion.

Audio Response: 250 to 3.0 KHz plus or minus 3 db.

Audio Output Provisions: Speaker (8 ohms) Line (600 ohms balanced) Headphone

Calibrator: 50 KHz

Antenna Input: 50 ohms unbalanced

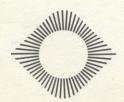
Front Panel Controls: AM, USB, LSB; BFO Frequency Tuning; Preselector Tuning; Main Tuning; Frequency Synthesizer Tuning; Meter Switch (AF/RF); AF/RF Gain Control; Band Switch; Blanker/RF Attenuator Control; Selectivity; AGC (Fast/Slow) Switch; Headphone Jack; Function Switch (OFF, STBY, OPR, CAL).

Rear Panel: Antenna input, 50 ohms unbalanced; Battery Connections; External Mute; AGC Output; Detector Output; VFO Input/Output; Line Output 600 ohms balanced; Speaker Output 8 ohms.

Power Requirements: 115/230 VAC, 50-60 Hz at 24 watts or 18 VDC maximum source drain 600 ma.

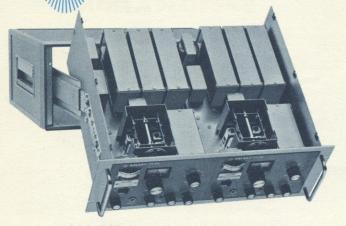
Size: 6" H x 17" W x 14" D Cabinet; Rack Panel 8%" H x 19" W x 14" D.

Weight: 25 lbs. (Shipping weight BCP 32 lbs.)



-A PRODUCT OF-

# galaxy electronics



## **RPA-530 Rack Panel Adapter**

Shown here with the FFR-Receiver. The Rack Panel Adapter not only provides top and bottom dustcovers for the R-530 but facilitates servicing of the unit as well.



#### SPK-530 Speaker Console

Beautiful matching Speaker Console for the R-530 Receiver. Designed for High Quality Audio reproduction. Complete with cables.

## **FILTERS (Not Illustrated)**

The addition of these crystal lattice filters allows the operator to select the proper filter for optimum reception dependent on the mode. FL-5305 (500Hz) • FL-53015 (1.5 KHz) • FL-5306 (6.0 KHz)

## -OTHER WELL KNOWN GALAXY EQUIPMENT-



#### Galaxy FFR-230

A highly stable (1 ppm) fixed frequency Receiver with extremely versatile



Galaxy COMM-1A

A four-channel crystal controlled Transceiver with upper and lower selectable sideband. 3.0 to 7.5 MHz.



#### Galaxy COMM-2

Single sideband Transceiver designed for Commercial and Military applications. 2-channels, will operate on lower or upper sideband. 2 to 20 MHz frequency range. Operates on ±12 VDC. 117/230 VAC available.

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MANUFACTURED BY

SUBSIDIARY OF HY-GAIN ELECTRONICS CORPORATION

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