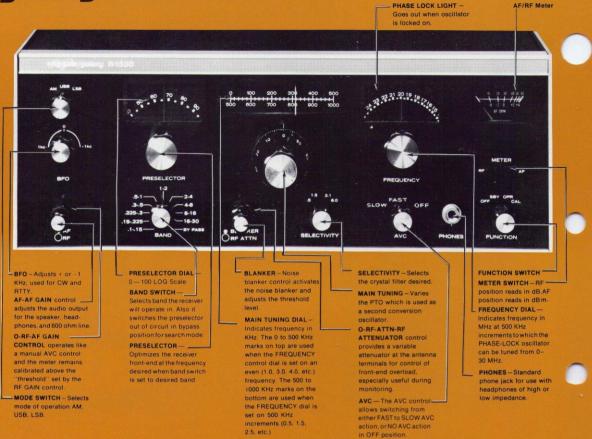


galaxy electronics



Whether your application is monitoring specific frequencies, commercial communications, military communications or just plain ordinary shortwave listening, the R-1530 is for you.

DESCRIPTION:

The Galaxy R-1530 is a new dimension in .01-30 Mhz general coverage receivers. All solid state circuitry and modular construction place the R-1530 in a category of excellence unmatched by other units. The R-1530 contains several outstanding features that were previously available only on military receivers costing three times as much.

A unique fiducial design provides calibrations and frequency correction every 50 KHz throughout the entire frequency range of the R-1530. A highly effective built-in noise blanker permits reduction of interference while a variable attenuator at the antenna terminal allows positive control over cross modulation.

OUTSTANDING FEATURES:

- Variable BFO for precise adjustment during CW and RTTY operation.
- Permeability tuned preselector for maximum cross modulation reduction and minimum gain variation.
- Extremely stable permeability tuned oscillator for outstanding linearity and frequency resetability.
- Switchable crystal filters for instant selectivity selection.
 Phase lock oscillator, a unique advancement in de-
- Phase lock oscillator, a unique advancement in design and frequency determination, gives the R-1530 its professional grade frequency stability.
- Dual gate MOSFET RF amplifier in the preselector.
- Hot carrier diodes in the first mixer.
- J-FET second mixer.
- Superb dynamic range and signal handling capability.

R-1530 Solid State Communications Receiver



R-1530 SPECIFICATIONS

RECEIVER TYPE: RF Superheterodyne, dual conversion, solid

FREQUENCY RANGE: 0.01 to 30 MHz continuous

FREQUENCY READOUT: 1 KHz over entire 500 KHz tuning range

FREQUENCY STABILITY: From turn-on better than 100 Hz, includ-

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, SLOW, and OFF—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

	Preselector	
IMAGE REJECTION:	By-Pass Mode	Preselector
Image at 1 MHz	80 db	80 db
Image at 5 MHz	80 db	90 db
Image at 10 MHz	86 db	90 db
Image at 20 MHz	86 db	100 db
IF rejection:		
at 42 MHz BLOCKING:	50 db	90 db
1000uV wanted	0.1V unwanted ± 20Kc/s Same as Bycauses audio to drop 2 db Pass	
CROSS MODULATION:	90 db above 1 uV pro- duces output less than 30 db below standard output	

INTERMODULATION:

80 db 2 × 10mV = 1uV 2 × 30mV = 18uV 2 × 100mV = 200 uV 90 db 2 × 3mV = 2uV 2 × 10mV = 100uV 3rd order (30 Kc/s spacing)

1 uV to 0.1 V

AGC RANGE: 10 uV to 0.1 V

Audio output change less than 5 db SENSITIVITY:

with 2.1 K Hz filter for 10 db SN

FREQ 0.05 MHz 0.05 MHz 0.1 MHz 0.5 MHz 1 MHz 2 MHz

	By-Pass Mode	Preselector
4 MHz	1.7 uV	0.25
10 MHz	1.7 uV	0.25
20 MHz	1.7 uV	0.25
30 MHz	1.7 uV	0.25
16 MHz	0.6 uV CW	0.1 uV CW
	1.2 uV SSB	0.2 uV SSB
	2 uV AM	1.5 uV AM

FRONT END OVERLOAD:

SPURIOUS RADIATION: Maximum 1 microvolt throughout the band 10KHz-30MHz except for 125 KHz where spurious equals 3 micro-

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 RTTY (1.5KHz).

RF SIGNAL ATTENUATOR: Variable line attenuator provides 0-20 db attenuation of signal before reaching receiver frontend.

HARMONIC/SPURIOUS RESPONSE: All spurious and harmonic

NOISE BLANKER: Adjustable for optimum performance on SSB

FUNCTIONAL SERVICE: AM, CW, SSB (Selectable USB & LSB) and RTTY. Variable BFO utilized in CW mode tunable plus or

AUDIO OUTPUT LEVEL: More than 1 watt with less than 10%

AUDIO RESPONSE: 250 to 3.0 KHz plus or minus 3 db.

AUDIO OUTPUT PROVISIONS: Speaker (8 ohms). Line (600 ohms balanced). Headphone on front panel.

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/Off) 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.

o onms.

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 7" H x 19" W x 14" D.

WEIGHT: 25 lbs. (Shipping weight BCP 32 lbs.) Weight in kilograms

galaxy R-1530

www.radiopharos.it Accessories



SC-1530 SPEAKER CONSOLE

The SC-1530 speaker console is designed for high quality audio The R-1530 contains a 2.1 KHz reproduction and matches the R-1530 in appearance. The SC-1530 comes complete with connecting cable.

PART NO. 876.



CRYSTAL FILTERS

crystal filter as standard equipment. Optional plug-in filters are available for 0.5, 1.5 and 6.0 KHz. These filters plug directly into chassis receptacle adjacent to the standard filter.

FL-5305 (500Hz) FL-53015 (1.5 KHz) PART NO. 820 PART NO. 821 **PART NO. 820**

FL-5306 (6.0 KHz) PART NO. 822

RPA-1530 RACK PANEL

ADAPTOR
The R-1530 can be rack mounted in a standard 19" rack by using the RPA-1530 rack panel adaptor. Only 7" of rack panel space is required. Ball-bearing slides and push button chassis tilt provide easy access for maintenance

PART NO. 818A.

Other Internationally Famous Galaxy Products.



FFR-230/6

2-30 MHz. six channel HFstrip receiver



COMM-1A

3.0 to 8.3 MHz. four channel HF SSB transceiver with 95 or 200 watts PEP



3.0 to 15 MHz. four channel (within 5% B.W) HFSSB transceiver with 95 or 200 watts PEP



2 to 30 MHz, single channel HF strip receiver