

PRELIMINARY DATA

HAMMARLUND HQ-88

Hi-Stability Amateur Band Receiver



As steady as a rock — and quickly ascertainable by any of the popular tests. There is no need to tip-toe around the ham shack when the HQ-88 is in action — this remarkable receiver will hold frequency under the most adverse conditions — including the “fist test” or the classic “drop test”. Here is performance you can prove — and specifications that tell their own unique story. The HQ-88 covers all popular ham bands — 10 through 160 meters — including Mars, Citizens Band, WWV and Marine band. Highly sel-

ective (2.2 KC & 5 KC) circuits, with skirt ratios of better than 3 to 1, and separate AM and SSB detectors make the “88” ideal for SSB, AM, CW, and RTTY. Sensitivity is a realistic 0.75 microvolt for a 10 db AM signal-to-noise ratio and better than 0.40 microvolt for SSB and CW.

Stability is truly extraordinary. Thermal drift is rated at no more than fifty cycles after a short warmup.

The Hammarlund HQ-88 offers all of the controls and provisions for smooth, interrelated operation with your present equipment. In addition to the series noise limiter shown in the specs, the optionally available Hammarlund Noise Immunizer completely eliminates noise interference caused by domestic or industrial equipment as well as impulse noise caused by spark discharges of power line leaks and ignition systems. A Noise Immunized HQ-88 will bring in and hold signals considered not readable on other receivers.

Check these specifications and investigate the new Hammarlund HQ-88 — the unit that offers a *new Concept* in high stability reception.



HAMMARLUND
MANUFACTURING COMPANY

A Giannini Scientific Company

53 West 23rd Street, New York 10, N.Y.

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HIGH STABILITY AMATEUR RECEIVER

AMATEUR BANDS COVERED

10, 15, 20, 40, 80 and 160 meters (WWV)

FREQUENCY RANGES

1.8 to 2.4 mc., 3.5 to 4.1 mc., 6.9 to 7.5 mc., 20.9 to 21.5 mc., 27.9 to 28.5 mc., 28.5 to 29.1 mc., 29.1 to 29.6 mc., WWV (5 mc), and 3 extra crystal positions for optional ranges upon special request. (from 3.5 mc to 30 mc.)

CALIBRATION

Dial markings every 10 kc, with logging scale approx. 1div/kc

NUMBER OF CONVERSIONS

Dual on 10 through 80 meters, single on 160 meters. ;

MAXIMUM AUDIO OUTPUT

1.0 watts at 10% distortion

OUTPUT IMPEDANCES

3.2 and 500 ohms

AVC ACTION

Operates on RF and two IF stages. Fast charge, with choice of fast or slow discharge. Delayed AVC on all stages.

SELECTIVITY & BANDWIDTH

Selectable CW, USB, LSB and AM. On USB and LSB the 6 to 60 db bw is 2.2 kc and 7.5 kc respectively. On AM it is 5 to 15 kc. Attenuation is smooth to 80 db, with no side peaks. CW 6 to 60 db is 1-3 kc.

SENSITIVITY

Average of .75 μ volt for 10:1 signal/noise for AM.
Average of .40 μ volt for 10:1 s/n for SSB and CW.

ANTENNA INPUT

50 ohms nominal, balanced or unbalanced. (Provision for separate coax input for 6 or 2 meter converter).

RF PRESELECTOR

3 tuned circuits

BFO RANGE

Variable from zero to plus or minus 3 kcs.

Q-MULTIPLIER

Variable bandwidth, approximately 500 cps to 2 kcs at 6 db. (on USB or LSB position). Selectable notch or peak or off.

TUBE COMPLEMENT

12BZ6	RF amp
12AT7	1st converter (crystal oscillator)
6BR8	2nd converter (tunable oscillator)
12BA6	1st IF amp
12BA6	2nd IF amp
6FM8	AVC amp and AVC det.
6BE6	Product detector
12AX7	Q-Multiplier
6GW8	Audio amp
12BZ6	Crystal calibrator

SEMICONDUCTORS

One four-unit rectifier, 400 PIV, 400 ma.
FIVE low-level diodes.

POWER SUPPLY

105 to 125 volts, 50-60 cps. Can be used on 12 volt DC with accessory cable and vibrator

POWER CONSUMPTION

80 Watts

"S" METER

Calibrated 1 to 9 in 6 db steps. Goes to 40 db over S9. Meter deflects on all types of signals.

NOISE LIMITERS

Series types for AM. IF type, adjustable for SSB and CW.

STABILITY

Approximately 100 cps from warmup, less than 50 thereafter.

REJECTION

1st IF rejection better than 60 db Image rejection 60 db on 160 through 10 meters.

FRONT PANEL EQUIPMENT

Main Tuning
Sensitivity (RF Gain) with AC on/off sw.
Audio Gain
RF Preselector tune
Band Select
Phone Jack
BFO tune
Function sw. AM-SSB, CW
Q-Multiplier sw. OFF-PEAK-NULL, with Q-Multiplier bw adjust
Q-Multiplier Frequency adjust
Noise Limiter adjust (SSB only), with switch (AM and SSB)
AVC switch; S. AVC — F. AVC
STDBY-RCVE-CAL-ACC SWITCH
Dial Scale adjust

REAR PANEL EQUIPMENT

Terminal strip for speaker voice coil; 3.2 ohms, 500 ohms
"S" meter zero adjust
"S" meter sensitivity adjust
Accessory socket, 4-prong for preamp or converter. 3.6 volts a .45 amps, 150 volts a 15 ma.
System socket for Receiver-transmitter inter-connection
Jones socket for power cable. (power cable has internal connection for 115 vac or 12 vdc and fuses)
UHF coax for main antenna input
Phono type coax for converter antenna input
Terminal strip for main antenna, for balanced or unbalanced, with ground strap for unbalanced.

DIMENSIONS

15" wide x 7 3/4" high x 10 1/2" deep

WEIGHT

Approximately 17 lbs. with cabinet