

Coming to your dealer soon.



Introducing

The Hammarlund HQ-215

The solid state receiver for those who want to be one-up.

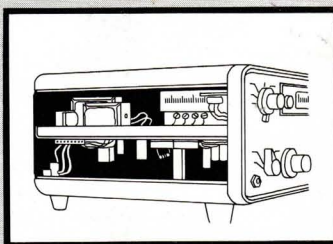
The Hammarlund HQ-215 brings to amateur radio a fully transistorized receiver offering a new high in sensitivity, selectivity and drift-free operation. Revolutionary unitized I-beam construction coupled with modularized design provides an unusually high degree of electrical and mechanical stability. A unique carousel dial with 22" of frequency calibrations means easy reading and resetability to within 200 cycles. And heat free operation gives you long set life at peak operating condition. Here are the facts:

FREQUENCY COVERAGE: Complete ham band coverage, 80-15 meters; 28.5—28.7 mcs on 10 meters. Provision for 13 optional crystals providing 200 kc segments from 3.4—30.2 mcs built in.

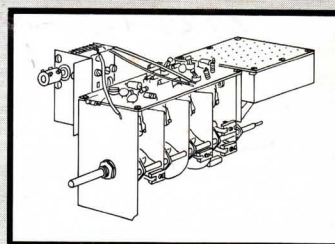
TRANSCIVE OPERATION: Provided.

FREQUENCY READOUT: Visual dial accuracy is ± 200 cycles on all bands.

FREQUENCY STABILITY: Less than 100 cycles per hour.



I-beam construction for strength



Modularized for electrical stability

TRANSISTORS: 26 transistors, 13 diodes and 2 Zener regulator diodes.

SELECTABLE FILTERS: 2.1 kc mechanical filter supplied. Plug-in space for two optional filters. Any filter may be switch-selected from front panel.

MODE: Selectable USB, LSB, CW, OR AM.

SERVICE: SSB, CW, AM, and RTTY.

SENSITIVITY: Better than 0.5 micro-volt for 10db signal-to-noise ratio.

SELECTIVITY: SSB-2.1 kc mechanical filter, 2:1 shape factor.

DIMENSIONS: Size: 6.8" H x 15.8" W x 14" D.

WEIGHT: 21 lbs.

\$529.50

S215 Matching Speaker

\$24.95

Suggested User Net



HAMMARLUND
MANUFACTURING COMPANY

73-88 HAMMARLUND DRIVE, MARS HILL, NORTH CAROLINA 28754



HQ-215 TRANSISTORIZED RECEIVER

ENGINEERING SPECIFICATIONS

Frequency Range: 3.4 mHz—30.2 mHz. Crystals furnished for the following bands:

80 meters—3.4—4.0 mHz
40 meters—7.0—7.4 mHz
20 meters—14.0—14.4 mHz
15 meters—21.0—21.6 mHz
10 meters—28.5—28.7 mHz

Provision for 13 additional 200 kHz segments anywhere between 3.4 and 30.2 mHz without disturbing ham band segments.

Mode: Selectable USB, LSB, CW or AM.

Service: SSB, CW, AM and RTTY.

Frequency Stability: Less than 100 Hertz per hour after 5 minute warm-up.

Calibration Accuracy: Better than ± 500 Hertz between 100 kHz calibration points.

Backlash: Not more than 25 Hertz.

Visual Dial Accuracy: ± 200 Hz on all bands.

Sensitivity: Better than 0.5 microvolts for 10 db signal-plus-noise-to-noise ratio (carrier on-off) SSB/CW mode with 2.1 kHz filter, 1.0 microvolt for 10 db signal-plus-noise-to-noise ratio in AM mode with 2.1 kHz filter.

Selectivity: SSB-2.1 kHz mechanical filter, 2:1 shape factor. Optional filters for CW and AM not supplied. Other filters may be used for 0.2, 0.5, 0.8, 1.5, 3.1, 4.0 or 6.0 kHz.

Cross Modulation and Overload Protection: Equal to or better than vacuum tube receivers of equivalent design.

Harmonic and Spurious Response: Image rejection better than -50 db. Internal spurious signals below 1.0 microvolt equivalent signal on all amateur bands.

Hum and Noise: -40 db or greater for signals over 1000 microvolts.

A. G. C.: Selectable time constants: Slow and Fast. Attack time, less than 5 milliseconds. Slow release time 2.0 seconds, Fast release time 500 milliseconds. Less than 10 db output change from 2 to 20,000 microvolts.

Variable BFO: Tunes 452—458 kHz.

"S" Meter: Approximately 50 microvolts for S-9 to 60 db over S-9.

Noise Limiter: Self adjusting, series type.

Rejection Tuning: Provides up to 40 db rejection of unwanted heterodynes and carriers.

Audio Output Level: Better than 1.5 watts with less than 10% distortion.

Audio Response: ± 3 db, 250 Hz to 6.5 kHz.

Audio Outputs: Speaker 3.2 ohms. Headphones and phone patch 500 ohms.

Calibrator: 100 kHz Crystal.

Antenna Input: 50-75 ohms, unbalanced.

Dial Light: Adjustable from front panel.

Ambient Temperature: 0 degrees C. to +50 degrees C.

Transistor and Diode Complement: 26 silicon transistors, 13 diodes and 2 Zener regulator diodes.

Protective Devices: AC line fused with 3/8 amp fuse. DC protected with reverse polarity diode. Automatic Circuit Breaker.

Power Requirements: 117/234 Volt AC 50/60 Hertz. Power Consumption, 19 watts. 12-15 Volt DC Negative ground only. Current Drain (12 Volt Supply) 460 mA with external speaker at rated output; 75 mA with headset.

Size: 6.8" H x 15.8" W x 14" D.

Weight: 21 pounds.

OPERATING CONTROLS

1. Tuning Knob
2. AF Control with AC switch
3. RF Control
4. Mode Switch AM, CW, LSB, USB
5. Function switch, Stby, Rec., NL, Cal.
6. Filter selector switch
7. Rejection tuning
8. Band switch
9. BFO tuning
10. AGC switch, Fast, Slow
11. Preselector tuning
12. Dial Light Dimmer Control
13. Zero Set Knob

REAR PANEL CONNECTIONS

3.2 ohm Speaker	VFO Output
500 ohm	Crystal HFO Output
Muting	Antenna
Power Connector	(3) Spare Jacks
Ground Terminal	

INTERNAL ADJUSTMENTS

"S" Meter Zero
"S" Meter Sensitivity
Notch Depth
LSB VFO Adjust
CW VFO Adjust
AGC Bias Adjust