

# HX-50



## NEW, COMPACT FILTER-TYPE TRANSMITTER

### FEATURES

- ☆ Carrier suppression  
50 db or better
- ☆ Unwanted sideband suppression  
50 db or better
- ☆ 3rd and 5th order distortion  
down 30 db or better
- ☆ Spurious frequencies  
down 50 db or better
- ☆ TVI proofed
- ☆ Illuminated meter and combination  
slide rule spiral dials
- ☆ All crystals included—
- ☆ Built-in antenna, changeover VOX  
and CW break-in keying relay plus  
push to talk circuitry

New, compact, and loaded with design extras that give you highest dollar value. Power input 130 Watts, P.E.P. and CW. Two tone output 50 Watts at 10 meters, 75 Watts or better at 80 meters. The **HX-50** packs features usually found only in larger, more expensive units.

The Hammarlund **HX-50** offers more-for-the-money than other comparably priced transmitters. It covers all ham bands 80 to 10 meters, and in addition includes a minimum of 50 KC outside of each amateur band. Operational controls are located on the front panel and a separate scale for each band provides readout better than 1 kcs. Stability after warmup is less than 250 cps. It offers superior performance in upper or lower SSB, AM, or CW.

The discriminating amateur radio operator will find the Hammarlund **HX-50** an outstanding performer. No effort has been spared to make it the best in its class—intensive research and engineering know-how by Hammarlund's design group combined with the finest components available has resulted in a dependable, power-packed transmitter that stands alone in its price class.



Established 1910

## HAMMARLUND



# SPECIFICATIONS

# HX-50

<b>AMATEUR BANDS COVERED</b>	80, 40, 20, 15 and 10 meters plus some MARS.
<b>FREQUENCY RANGES</b>	3.45 to 4.45 MCS; 6.95 to 7.95 MCS; 13.75 to 14.75 MCS; 20.75 to 21.75 MCS; 27.75 to 28.75 MCS; 28.75 to 29.75 MCS
<b>TUNING ACCURACY</b>	Main slide rule dial is calibrated every 100 KCS. Vernier tuning dial is calibrated every 2 KC. Readable to 1 KCS or better
<b>NUMBER OF FREQUENCY CONVERSIONS</b>	Two.
<b>OUTPUT NETWORK</b>	Pi type, fixed
<b>OUTPUT IMPEDANCE</b>	50 ohms.
<b>OUTPUT POWER</b>	Two tone SSB or CW, 50 watts at 10 meters to 75 watts at 80 meters, AM 25% of SSB/CW values.
<b>VFO STABILITY</b>	Better than 250 cycles after warmup.
<b>ALL OTHER OSCILLATORS</b>	Crystal controlled.
<b>POWER SUPPLY</b>	105-125 volts, 50/60 cps. Power consumption, 300 watts at maximum CW output.
<b>METERING</b>	Relative RF output and final stage cathode current selectable.

## TUBE COMPLEMENT

### LATEST COMPACTRONS AND NUVISTOR USED

**6C10**/Compactron speech amp., modulator, carrier osc

**6EH7**/3 MC if amplifier

**6BA7**/First mixer

**6D10**/Compactron first conversion crystal oscillator,  
VOX relay and anti-trip amplifier

**6BV8**/VOX amplifier and rectifier

**6BA7**/Second mixer

**6CW4**/Nuvistor VFO

**12BY7-A**/Driver

**6DQ5**/Linear class AB1 power amplifier

**0A2**/Voltage regulator, VFO and driver/AB1 amp screens

**5R4GYB**/High voltage rectifier

**6CA4**/Low voltage rectifier

### BAND WIDTH

2.7 KC at 6 db down • 4.5 KC at 50 db down

### REAR CHASSIS EQUIPMENT

Line cord  
Fuse  
50 ohm antenna connector (S0239)  
Receiver antenna connector  
Receiver/Linear interconnection terminal board  
VOX delay control  
VOX sensitivity control  
Anti-trip sensitivity control  
Bias adjustment

### FRONT PANEL CONTROLS

Meter switch  
Meter sensitivity  
RF level  
Final tune  
Band selector  
Key jack  
Function switch  
Operations switch  
Audio level  
Driver tune  
Frequency KCS (VFO)  
Microphone push  
To talk jack

### DIMENSIONS

17¼" wide; 9½" deep; 9⅞" high.  
Net weight, 40 lbs.; Gross, 45 lbs.



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# HAMMARLUND

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## NEW, COMPACT FILTER-TYPE TRANSMITTER

Here is a new Hammarlund transmitter that is loaded with design extras to give you top-dollar value. Rated at 130 watts Two Tone P.E.P. and CW input, it covers all the amateur bands 80 to 10 meters and in addition provides a 160 meter band switch position for use with an optionally available kit. Slide rule dial has band-in-use indication and is calibrated every 100 KC. Readability to 2 KC or better. Stability after warmup is less than 250 cps. The new HX-50 offers superior performance in upper or lower SSB, AM or CW.

**\$399<sup>50</sup>**

Amateur Net

- **PUSH-TO-TALK CIRCUITRY.**
- **BUILT-IN ANTENNA CHANGEOVER, VOX AND CW BREAK-IN KEYING RELAY.**
- **ALL CONVERSION CRYSTALS INCLUDED.**
- **CARRIER AND UNWANTED SIDEBAND SUPPRESSION 50 db OR BETTER.**
- **3rd AND 5th ORDER DISTORTION DOWN 30 db OR BETTER.**
- **AMATEUR BANDS COVERED** — 80, 40, 20, 15 and 10 meters — **OPTIONAL**—Kit available for 160 meter operation.
- **BANDWIDTH 2.7 KC AT 6 db DOWN—4.5 KC AT 50 db DOWN.**
- **POWER SUPPLY** — 105-125 volts, 50/60 cps. Power consumption 300 watts at maximum CW output.
- **FIXED FREQUENCY CRYSTAL CONTROLLED OPERATION** — 4 channels provided for MARS, Novice or other use (crystals not supplied).
- **OUTPUT POWER** — Two tone SSB and CW — 50 watts at 10 meters to 75 watts at 80 meters. AM is 25% of SSB/CW values.
- **VFO STABILITY** — Better than 250 cycles after warmup.
- **NUMBER OF FREQUENCY CONVERSIONS** — 2.