

# NEW



# FABULOUS

## FEATURES

VOX AND PUSH-TO-TALK CIRCUITRY

FIVE POSITION SWITCH FOR INTERNAL OR EXTERNAL VFO PLUS THREE CRYSTAL CONTROLLED FREQUENCIES SUITABLE FOR NOVICE, MARS, C.A.P., ETC.

THREE ELEMENT PI NETWORK VARIABLE OUTPUT CIRCUIT

CARRIER AND UNWANTED SIDEBAND SUPPRESSION 50 DB OR BETTER I.M. — 35 DB MIN.

OUTPUT POWER — TWO TONE SSB AND CW, — 50 WATTS AT 10 METERS TO 65 WATTS AT 80 METERS FOR RATED INPUT OF 90 WATTS DC, 130 WATTS P.E.P. AM IS 25% OF SSB/CW VALUES

BUILT-IN ANTENNA CHANGEOVER, VOX AND BREAK-IN KEYING

BANDWIDTH 2.7 KC AT 6 DB DOWN — 4.5 KC AT 50 DB DOWN

COMPLETE PASSBAND COUPLER DESIGN USED THROUGHOUT LOW-LEVEL STAGES

NUMBER OF FREQUENCY CONVERSIONS — TWO

AMATEUR BANDS COVERED — 80, 40, 20, 15, AND 10 METERS. 160 METER BAND POSITION PROVIDED FOR USE WITH OPTIONAL KIT

COMPACT

FILTER  
TYPE

TRANSMITTER

## THE HAMMARLUND HX-50

### FABULOUS in conception . . . in performance

A new Hammarlund transmitter that obliterates old concepts of performance and value. Loaded with design extras to give you the kind of operation you've hungered for — but never found in a modestly priced transmitter.

Conservatively rated at 130 watts Two-Tone P.E.P. and CW input, the new HX-50 covers all amateur bands 80 to 10 meters and in addition provides a 160 meter band switch position for use with an optionally available kit. Significant overlap of internal VFO ranges is provided by crystal or external VFO operation. Slide rule dial has band-in-use indication and is calibrated every 10 KC. Readability to approximately 2 KC. Stability after warmup is less than 250 cps.

Novice as well as expert will appreciate the outstanding CW performance of this unit. The discriminating amateur will find the Hammarlund HX-50 a splendid performer. No effort has been spared to make it the best in its class — intensive research and engineering by Hammarlund's outstanding design group — coupled with the finest components available — has resulted in a crowning achievement — the Fabulous HX-50.



# S P E C I F I C A T I O N S

## HX-50

### AMATEUR BANDS COVERED

80, 40, 20, 15, and 10 meters plus most MARS, C.A.P., CB and Novice. 160 meter operation optional.

### CALIBRATED FREQUENCY RANGES

3.5 to 4.0 MC; 7.0 to 7.3 MC; 14.0 to 14.35 MC; 21.0 to 21.45 MC; 28.0 to 28.55 MC; 28.55 to 29.1 MC; 29.1 to 29.65 MC.

### PASS BAND COUPLER

This design provides minimum of 1 MC bandwidth; thus crystal controlled or external VFO operation provides the following frequency ranges: 3.2 to 4.2 MC; 6.9 to 7.9 MC; 13.8 to 14.8 MC; 20.8 to 21.8 MC; 27.0 to 31.0 MC.

### TUNING ACCURACY

Slide rule dial calibrated every 10 KC.

### NUMBER OF FREQUENCY CONVERSIONS

Two.

### OUTPUT NETWORK

Pi type, three elements variable. Impedance 40-80 ohms.

### OUTPUT POWER

Two-Tone SSB and CW — 50 watts at 10 meters to 65 watts at 80 meters for rated input of 90 watts DC, 130 watts P.E.P. AM is 25% of SSB/CW values.

### VFO STABILITY

Better than 250 cps cycles after warmup.

### INTERNAL VFO FREQUENCY RANGE

5950 KC to 6550 KC.

### ALL OTHER OSCILLATORS

Crystal controlled.

### POWER SUPPLY

105 - 125 volts, 50/60 cps. Power consumption 250 watts at maximum CW output.

### METERING

Relative RF output and final stage cathode current selectable.

### CW KEYING

Grid block bias sequence keying.

### TUBE COMPLEMENT

<b>6C10</b>	Compactron speech amp., modulator, carrier oscillator
<b>6EW6</b>	3 MC IF amplifier
<b>6AW8</b>	First mixer, HF crystal oscillator
<b>12AT7</b>	VOX relay and anti-trip amplifier
<b>6BV8</b>	VOX amplifier and rectifier
<b>12BY7-A</b>	Driver
<b>6DQ5A</b>	Linear class AB1 power amplifier
<b>OA2</b>	Voltage regulator, VFO crystal oscillator, AB1 amplifier screen
<b>5R4GYB</b>	High voltage rectifier
<b>CER72C</b>	Low voltage rectifier
<b>CER70A</b>	Bias voltage rectifier

} Silicone Diodes

### BAND WIDTH

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

### REAR CHASSIS EQUIPMENT

Line cord  
Fuse  
Coax antenna connector (S0239)  
Receiver antenna connector  
External VFO connector  
Receiver/linear interconnection terminal board  
Bias adjustment  
Key jack, microphone push-to-talk connector

### FRONT PANEL OPERATION CONTROLS

Meter switch	Band selector
Meter sensitivity	Function switch
RF level	Operations switch
Final tuning	Audio level
Final loading	Variable frequency oscillator tuning

### ADJUSTMENT CONTROLS BEHIND FRONT PANEL DOORS

VOX delay	Antitrip sensitivity
CW delay	Crystal, VFO switch
VOX sensitivity	Three crystal sockets

### DIMENSIONS

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



## HAMMARLUND

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