

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 CHANGE-OVER, 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.

www.radiopharos.it

SPECIFICATIONS

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

6C10	Compactron speech amp., modulator, carrier oscillator
6EW6	3 MC IF amplifier
6AW8	First mixer, HF crystal oscillator
12AT7	VOX relay and anti-trip amplifier
6BV8	VOX amplifier and rectifier
12BY7-A	Driver
6DQ5A	Linear class AB1 power amplifier
0A2	Voltage regulator, VFO crystal oscillator, AB1 amplifier screen
5R4GYB	High voltage rectifier
CER72C	Low voltage rectifier
CER70A	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; 9½" high
Net weight, 40 lbs.; Gross 45 lbs.



HAMMARLUND

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