

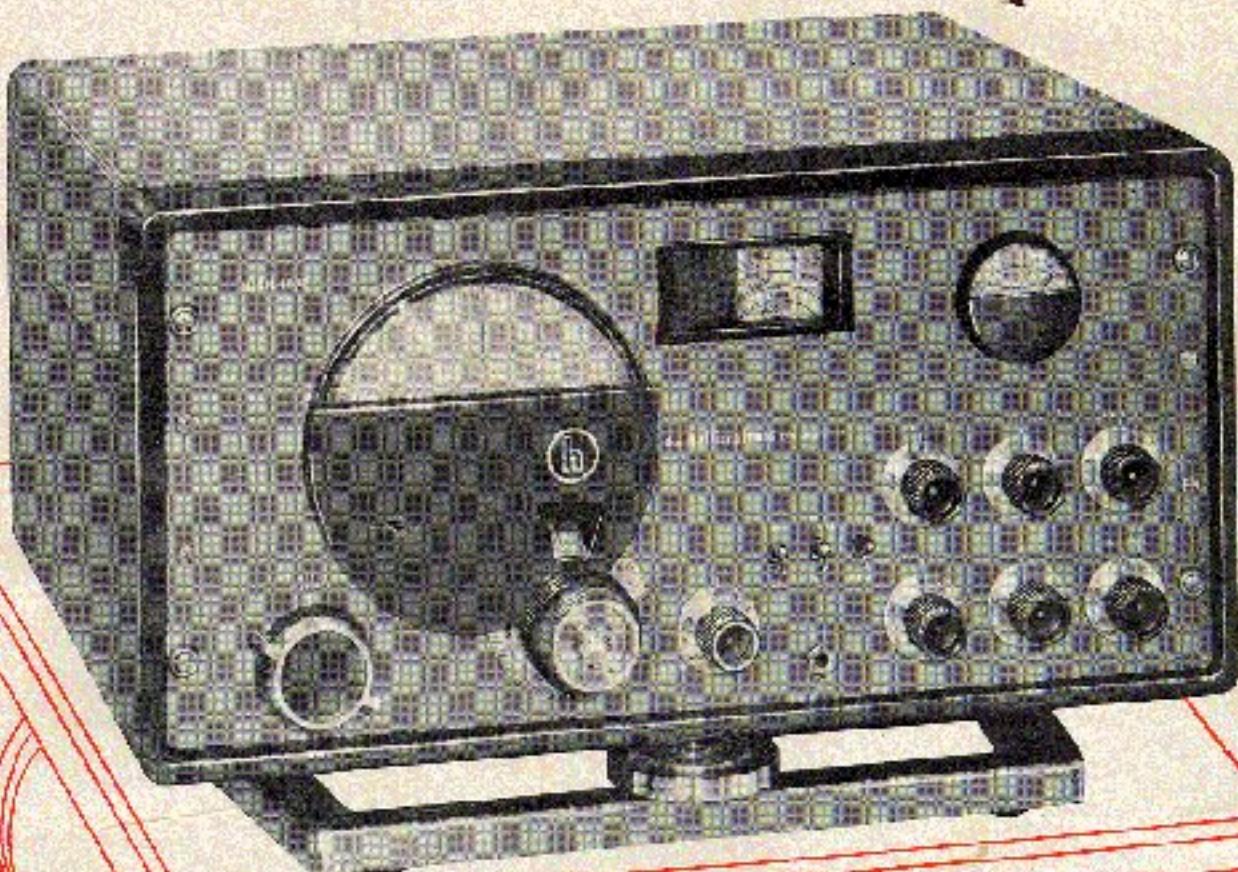
THE RADIO MAN'S RADIO

THE

SX-42

APPROACHES

Classic



\$275.00

Amateur Net

Elevating Base

B-42 — \$7.50

William J. Halligan, one-time wireless operator, widely known here (K7WZB) and radio manufacturer. His photo was made in the new plant of Hallicrafters, Inc., new radio laboratory in Chicago.

Perfection

GREATEST CONTINUOUS FREQUENCY COVERAGE

—from 540 kc. to 110 Mc. AM · FM · CW

In the Model SX-42 Hallicrafters sets a new high standard of receiver performance and versatility. Covering all frequencies from 540 kilocycles to 110 megacycles, the SX-42 combines in one superbly engineered unit a top-flight standard and VHF communications receiver, standard, short-wave and FM broadcast receiver, and high fidelity phonograph amplifier.

The tremendous frequency range of the SX-42, greater continuous coverage than has ever before been available in a receiver of this type, is made possible by the development of a new "split-stator" tuning system and the use of dual intermediate frequency transformers. Reception of amplitude modulated and continuous wave telegraph signals is provided for throughout the entire range of the SX-42. In addition, a discriminators and two limiter stages are available on bands 5 and 6 (27 to 110 megacycles) to permit the reception of frequency modulated signals. Musical reproduction of true high fidelity is assured by an audio system with a response curve essentially flat from 60 to 15,000 cycles and an undistorted output of eight watts.

The controls of the SX-42 are arranged for maximum convenience and simplicity of operation. MAIN TUNING and BANDSPREAD knobs are mounted coaxially, focusing the tuning functions in a single precision-built unit. BAND-SWITCH and VOLUME are located at either side of the main dial. Auxiliary controls such as CRYSTAL PHASING, SENSITIVITY, etc., are logically placed so that those most frequently used are in the most accessible positions. Hallicrafters new system of color coding makes it possible for the entire family to enjoy this fine receiver. The normal control positions for standard broadcast reception are indicated by tiny red dots while FM adjustments are in green.

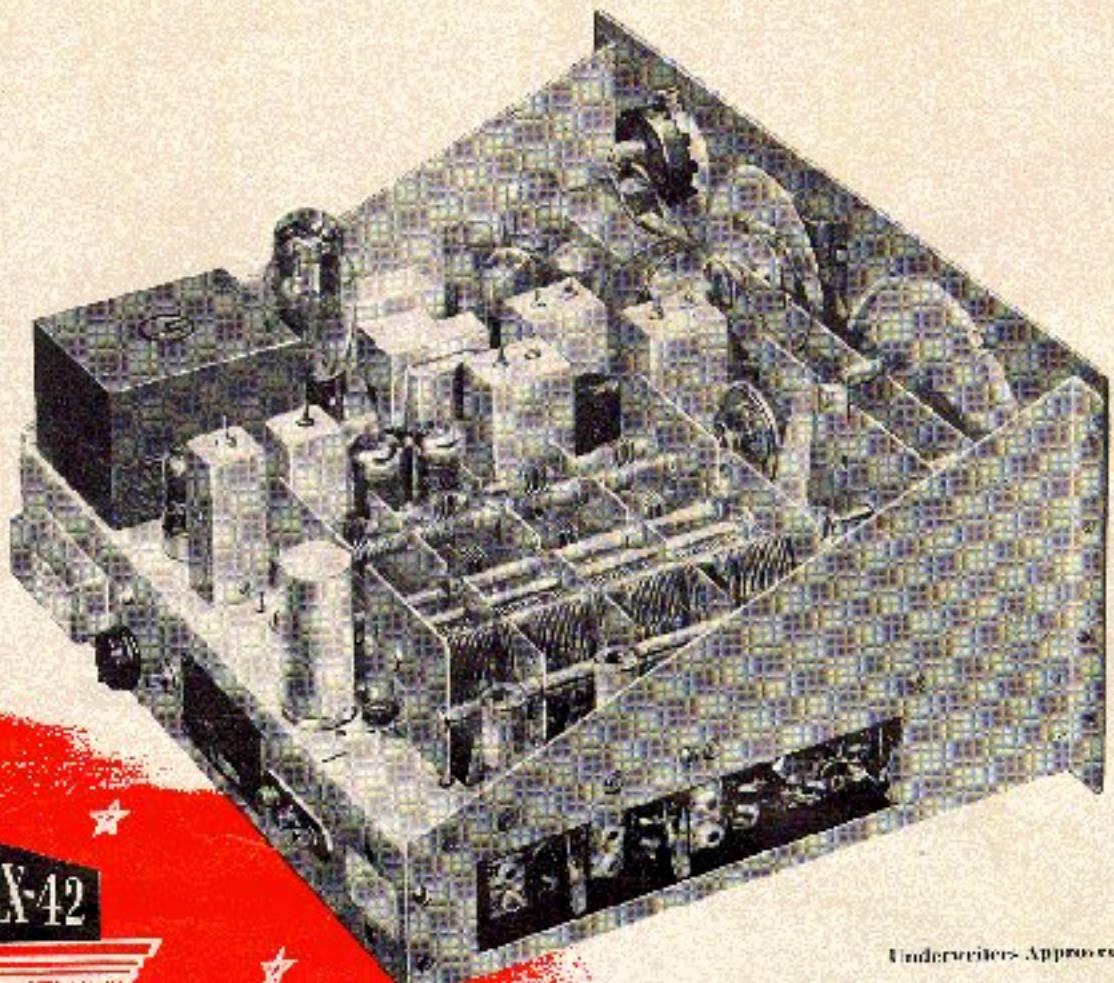
Available as an accessory; a hand rest idea, the instrument-type adjustable base shown under the SX-42 in photo. By simply turning the knurled ring of the front support the receiver can be tilted to provide an "overhead" view of the dials for maximum accuracy and ease of tuning.



The main tuning knob is provided with a precision vernier scale which is separately illuminated through a small window in the one-piece Lucite main dial housing. The main tuning dial is calibrated in megacycles and is marked with channel numbers in the new FM band of 88 to 108 megacycles. The bandspread dial is calibrated for the amateur 3.5, 7, 14, 21, and 50 megacycle bands. An additional stepping scale is provided on this dial for use in other ranges. The small locking knob mounted co-axially with the main and bandspread tuning knobs permits either to be rotated freely while holding the other firmly in position.

The many new and ingenious circuit features which make possible the amazing versatility of the SX-42 stem directly from Hallicrafters long experience in the design and production of VHF and UHF communications equipment. The newly developed "split-stator" tuning system used on the three higher bands provides a far greater gain per stage than is possible with older methods. Each IF transformer contains windings for both 455 kilocycles and 16.7 megacycles and the changeover is accomplished automatically between bands 4 and 5. As band 4 runs to 30 megacycles and band 5 starts at 27 megacycles it is possible to use either narrow-band standard communications receiver performance or wide-band FM performance on the amateur frequencies from 28 to 29.7 megacycles. A type 7A4 tube functions as a beat frequency oscillator for CW reception. When the receiver is switched to FM, however, this tube becomes a direct current amplifier to operate the FM tuning meter. This meter performs as a normal carrier level indicator for AM reception. A four position switch on the panel selects the desired mode of operation—PHONO, FM, AM or CW.

hallicrafters RADIO



SX-42

Underwriters Approved

AMATEURS SAY:

"Unsurpassed CW performance..."

In addition to its many new features the SX-42 continues all of the time-tried advantages characteristic of Hallicrafters top models. Freedom from drift and maximum stability are provided by temperature compensation and the use of a type VR-150 voltage regulator tube. A crystal filter circuit combined with variable intermediate frequency channel width offers six different degrees of selectivity on the four lower bands (to 30 megacycles). CRYSTAL PHASING, CW PITCH, SENSITIVITY, and four position TONE control for LOW, MED., HI, and HISS are all conveniently placed on the front panel as are BURGER/STANDBY, NOISE LIMITER, and AGC switches.

The beauty and modern functional styling of this new receiver are self-evident. Without in any way detracting from the "precision instrument" appearance which characterizes fine communications equipment, Hallicrafters designers have succeeded in creating a receiver which is not out of place in the most luxurious surroundings. The rich deep gray of the panel, satin chrome "airsize" top, and light gray lettering with touches of red and green combine with the precision-tooled controls and light translucent green of the illuminated dials and meter in a harmoniously integrated whole.

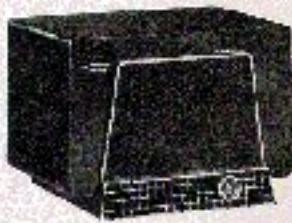
Remembered BY THE VETERAN

...preferred BY THE AMATEUR

Here are the REASONS behind the SX-42's greatness

1. Continuous frequency range—50 kilocycles to 110 megacycles in six bands:
 - Band 1—540 to 1420 kilocycles.
 - Band 2—1.62 to 5 megacycles.
 - Band 3—5 to 15 megacycles.
 - Band 4—15 to 34 megacycles.
 - Band 5—27 to 55 megacycles.
 - Band 6—55 to 110 megacycles.
 Adequate overlap is provided at the ends of all bands.
2. Wide-vision main tuning dial accurately calibrated.
3. Separate electrical bandspread dial calibrated for amateur 3.5, 7, 14, 28, and 50 megacycle bands.
4. Bent frequency oscillator housing throughout entire range of receiver; CW pitch adjustable from panel.
5. Harmonization switch selects mode of operation, PHENOM, FM, AM, or CW.
6. RECEIVE/STANDBY switch.
7. Series type automatic noise limiter.
8. Push-poll final audio stage delivers over 8 watts with less than 5% harmonic distortion.
9. Audio amplifier response curve is essentially flat from 40 to 15,000 cycles.
10. Rec markings for broadcast reception and green markings for FM reception simplify operation for general use.
11. Connections for coordinated operation with Hallicrafters transmitters.
12. Separate SENSITIVITY (RF) and VOLUME (AF) controls.
13. Four-position tone control provides LOW, MED, HI-FI, and BASS.
14. Special socket for use of external power supply.
15. High-frequency oscillator temperature compensated to reduce drift.
16. "Micro-set" permeability-adjusted coils in RF section.
17. AVC switch.
18. "Airturbo" steel top provides full ventilation and cooling—open on full length piano hinge for greatest accessibility.
19. Wide local FM, AM, or CW coverage from 27 to 110 megacycles.
20. Six-position selectivity switch with crystal filter operates on frequencies between 500 kilocycles and 10 megacycles.

R-42 SPEAKER



R-42 SPEAKER

\$29.50

TUBE is the first receiver of its size to offer the splendid advantages of the bass reflex principle. Therefore the famous bass-increased low-color separation has been available only in large cabinet speakers. Now in this sleek, highly functional design, utilizing the new line of Hallicrafters speakers, the bass reflex feature is available in a compact speaker that offers a new high quality of reproduction. The R-42 was designed as a companion piece to the SX-42 receiver but it may be used with any other receiver such as the SX-28 and the SX-25. The speaker size is 8 inches. Composition woven cloth frame for maximum accuracy in high-fidelity reception. Dimensions: 10" wide by 10 1/2" high, 7" deep.

21. Combination carrier level meter and FM tuning indicator. BFO tube performs dual function as FM tuning indicator amplifier.
22. New FM band marked with channel numbers in addition to megacycle calibration.
23. Dual intermediate frequency transformers, 450 kilocycle IF for standard operation, 10.7 megacycle IF for VHF and FM operation.
24. "Split-tuning" tuning makes possible superior performance in VHF range.
25. Chassis and panel can be removed as a unit for rack mounting.
26. Crystal phasing control.
27. Antenna input impedance matches 300 ohm line.
28. New Hallicrafters Type H-20 crystal used in crystal filter circuit. Holder of Myalex, non-hygrotropic and unaffected by temperature.
29. Two limiter stages for maximum quieting on FM.
30. Two tandem RF stages using miniature tubes for superior VHF performance.
31. Phonograph input connections on rear of chassis.
32. Type VR-150 voltage regulator tube provides maximum stability in high frequency oscillator, converter, BFO, and FM tuning under circuit.
33. MAIN and BANDSPREAD tuning controls and dial lock are mounted coaxially as a single precision-built unit.
34. Main tuning scale provided with precision vernier scale, separately illuminated through small window in one-piece Lucite dial housing.
35. Listed by Underwriters.

TUBES: 1—6AG5 1st RF amplifier; 1—6AG5 2nd RF amplifier; 1—3P2 converter; 1—6SK3, 1st amplifier; 1—6SC7, 2nd IF amplifier; 1—5L6 AM rectifier and noise limiter; 1—717 1st FM limiter amplifier; 1—7H7 2nd FM limiter; 1—6H6 discriminator; 1—6SL7 audio inverters; 2—6V6 audio output tubes; 1—3A1 beat frequency oscillator and FM tuning meter amplifier; 1—VR-150 voltage regulator; 1—GU4G oscillator.

OPERATING DATA: The standard Model SX-42 is designed for operation on 115-125 volts 50/60 cycle alternating current. The universal Model SX-42U may be operated on 110, 124, 134, 220 or 250 volts, 25 to 60 cycle, alternating current. This chassis and model draws 0.9 amperes at 117 volts. When operated from batteries through the auxiliary power supply socket it requires 5 amperes at 6 volts DC for heating current and 150 milliamperes at 270 volts DC for plate current. Total battery current when operating from a 6 volt battery and using a Vibriopack as a source of plate power is 16 amperes.

DIMENSIONS: Model SX-42 Cabinet only, 23 inches wide by 9 1/2 inches high by 16 inches deep. Overall, 24 inches wide by 10 1/4 inches high by 18 inches deep.

WEIGHT: Model SX-42, Receiver only, approximately 52 pounds. Packed for shipment, approximately 65 pounds. Model U-42, adjustable base, packed for shipment, approximately 5 pounds.

hallicrafters RADIO

★THE SX-43 OFFERS SIX BANDS:

All the essential amateur
frequencies from 540 ke. to 108 Mc.

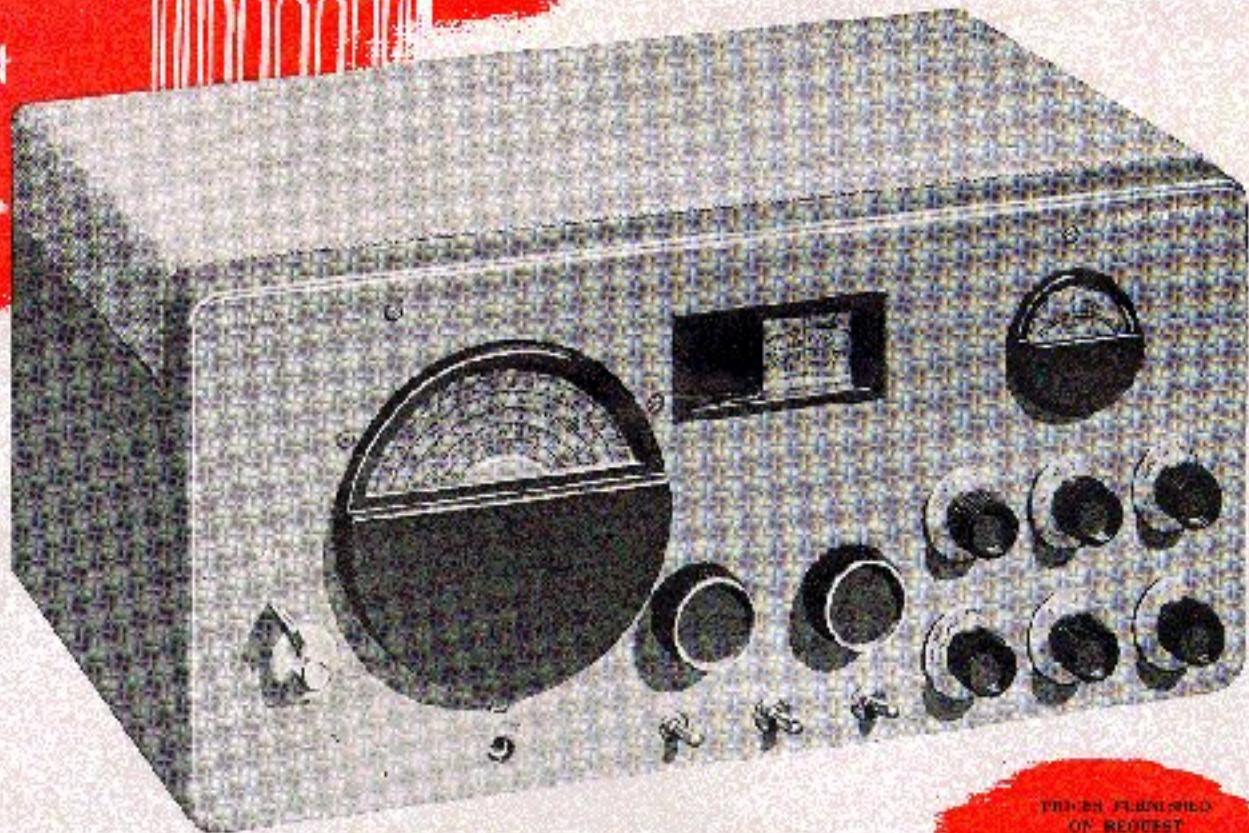


PHOTO PLUNKED
ON REQUEST
Sols available
after Aug. 1947

THE Model SX-43 is designed for the discriminating amateur who demands excellent performance and wide frequency range at a medium price. This new member of the Hallicrafters line offers continuous coverage from 540 kilocycles to 35 megacycles and has an additional band from 44 to 108 megacycles. AM reception is provided on all bands, CW on the four lower bands and FM on frequencies above 44 megacycles. In the band of 44 to 55 Mc., wide band FM or narrow band AM just right for narrow band FM reception is provided. The RECEPTION switch on the panel selects any of these and also connects the PHONO input jack on the rear of the chassis.

One stage of high gain tuned RF and a type 7F8 dual triode converter assure an exceptionally good signal-to-noise ratio. Image ratio on the AM channel on band 5 (44 to 55 Mc.) is excellent as the receiver is used as a double superheterodyne. The new Hallicrafters final IF transformers provide a 455 kilocycle IF channel for operating frequencies below 44 megacycles and a 10.7 megacycle IF channel for the VHF bands. Two IF stages are used on the four lower bands and a third stage is added above 44 megacycles. Switching of IF frequencies is automatic. The separate electrical bandspread dial is calibrated for the amateur 3.5, 7, 14, and 23 megacycle bands and in



Hottest ham performance ever

AT THIS PRICE

addition is used to tune the 44 to 55 and 88 to 108 Mc. VHF bands, the main tuning gang being disconnected on these frequencies.

Every important feature for excellent communications receiver performance is included in the SX-43. The crystal filter and expanding IF channel provide four variations of selectivity on the lower frequency bands. Temperature compensation for freedom from drift, series type noise limiter, permeability-adjusted "microset" inductances in the RF circuits, separate RF and AF gain controls, color coding for simplified operation by the entire family, and beautiful styling all destined this new Hallicrafters receiver for top place in the moderate price field.

OUTSTANDING FEATURE: Wide band FM, AM or narrow band FM on 44-55 megacycles.

CONTROLS: BAND SELECTOR, TUNING, BANDSPREAD, TUNE, RECEIV/STANDBY, NOISE LIMITER, CRYSTAL PHASING, SENSITIVITY, SENSITIVITY, VOLUME AND POWER OFF, RECEPTION, CW PITCH.

EXTERNAL CONNECTIONS: Antenna connections for doublet or single wire. Input impedances: matches 300 ohm line except on broadcast band which is designed for single wire antenna. Speaker terminals for 800 or 5000 ohms. Phone jack on front panel. Thongraph input connector on rear of chassis. Socket for use with external power supply. Remote stand-by control connection in power socket. Power cord and plug.

PHYSICAL CHARACTERISTICS: The cabinet of the Model SX-43 is styled in the new Hallicrafters pattern and is finished in rich satin gray. Panel and chassis may be removed as a unit for servicing without disturbing any controls. "Aerolized"

steel top swing open on full length piano hinge for maximum accessibility. Panel lettering is in light gray with incidental red and green markings for standard and FM broadcast reception. Dials are indirectly illuminated and are a light translucent green.

TUBES: 1—6BAS BE amplifier; 1—7B8 converter-oscillator; 1—6SG7 1st IF amplifier; 1—6SL7 2nd IF amplifier and second converter, band 5 AM; 1—6SH7 3rd IF amplif for 107 Mc.; 1—6L6 AM detector and noise limiter; 1—5AT1 FM detector; 1—6SQ7 1st AF amplifier; 1—6J5 beat frequency oscillator or second converter oscillator, band A; 1—6V6 audio output tube; 1—5Y3 rectifier.

OPERATING DATA: The standard Model SX-43 is designed for operating on 115-125 volts, 60/60 cycles alternating current. The unusual Model SX-43L may be operated on 110, 120, 150, 220, or 250 volts, 25 to 60 cycles, alternating current. The standard model draws 0.61 amperes at 115 volts. When operated from external batteries the heaters require 3.8 amperes at 5 volts and the plate circuit draws 25 milliamperes at 270 volts. If a vibrapack is used for plate supply the total battery drain is approximately 11 amperes at 6 volts. Underwriters approved.

DIMENSIONS: Model SX-43. Cabinet only, 18-1/2 inches wide by 8-1/2 inches high by 12 inches deep. Overall, 18-1/2 inches wide by 8-1/2 inches high by 13 inches deep.

WEIGHT: Model SX-43, Receiver only, approximately 35 pounds. Packed for shipment, approximately 45 pounds.

hallicrafters RADIO



FEATURES

1. Overall frequency range—50 kilocycles to 100 megacycles in six bands. (Seven positions on switch.)
 - Band 1—54 to 165 kilocycles.
 - Band 2—1.65 to 5 megacycles.
 - Band 3—5 to 15.3 megacycles.
 - Band 3A—5 to 15.3 megacycles. This provides a proper bandspread for amateur 14 megacycle band.
 - Band 4—15.3 to 44 megacycles.
 - Band 5—44 to 83 megacycles.
 - Band 6—83 to 100 megacycles.
 Adequate overlap is provided between first five bands.
2. Wide-band FM, or AM and narrow-band FM on band 5.
3. Double superheterodyne circuit on band 5 AM.
4. Wide visual main tuning dial accurately calibrated.
5. Separate electrical bandspread dial calibrated for amateur 1.5, 7, 14, and 20 megacycle bands. Also used to tune 44 to 55 and 43 to 100 megacycle VHF and FM bands.
6. Bent-frequency oscillator operates on frequencies below 44 megacycles. CW pitch adjustable from front panel.
7. Five-position switch selects mode of operation, CW, AM (manual volume control), AM (automatic volume control), FM, and PHONO.
8. RECEIVE/STANDBY switch.
9. Series type automatic noise limiter.
10. Type 6V6 audio output stage delivers 1 watt with less than 10% harmonic distortion.
11. Audio amplifier response curve is essentially flat from 30 to 2000 cycles.

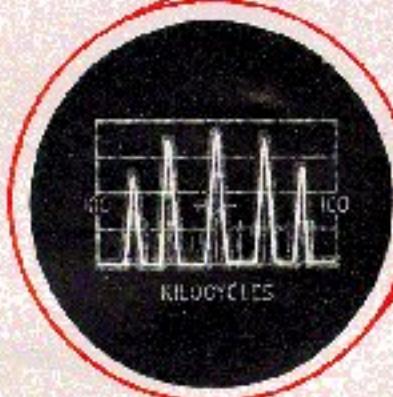
THE HAM ASKS FOR in a medium price receiver

12. Red markings for broadcast reception and green markings for FM reception simplify operation for general use.
13. Connections for co-ordinated operation with Hallicrafters transmitters.
14. Separate SENSITIVITY (RF) and VOLUME (AF) controls.
15. Tone control switch.
16. Special socket for use of "external" power supply.
17. High-frequency oscillator temperature compensated to reduce drift.
18. "Micro-set" permeability-adjusted coils in RF section.
19. AVC controlled by five-position RECEPTION switch.
20. "Aerodized" steel top for full ventilation. Entire top opens for maximum accessibility.
21. Wide-band FM, AM or narrow-band FM reception available on frequencies from 44 to 55 and 63 to 100 megacycles.
22. Four-position selectivity switch with crystal filter operated on frequencies below 21 megacycles.
23. "N" meter.
24. New FM band marked with channel numbers and calibrated in megacycles.
25. Dual intermediate frequency transformers, 455 kilocycle IF for standard operation, 10.7 megacycle IF for wide-band FM operation.
26. Crystal phasing control.
27. Antenna input impedance matched 300 ohm line.
28. New Hallicrafters Type HA-6 crystal used in filter circuits.
29. Phonograph input connections on rear of chassis.
30. Approved by Underwriters' Laboratories.

See

WHAT YOU'RE LOOKING FOR

SP-44



Closeup of Skyrider Panoramic Scope shows graphic visualization of the spectrum.



For Tubes Including
Hammar-Ray Tube

\$199.50

Antenna Net

LOTS MORE QSO's with the Skyrider Panoramic

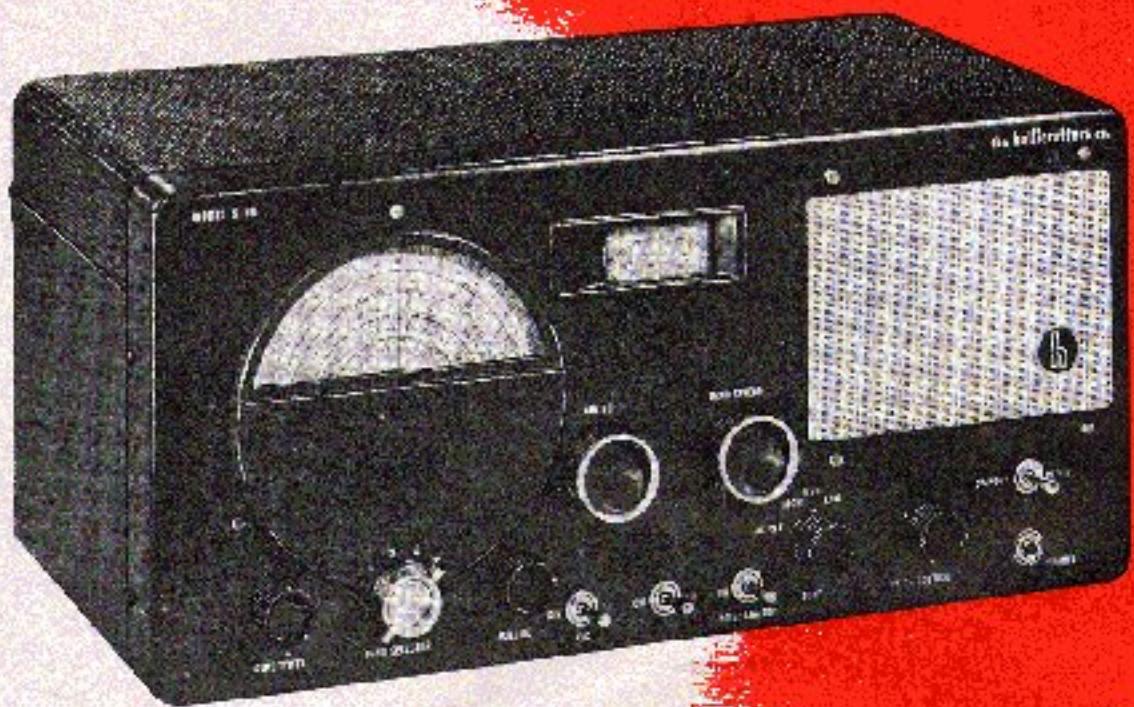
HALLICRAFTERS Skyrider Panoramic, Model SP-44 is actually a "third hand" to help you reach for new horizons in ham radio. You get lots more QSO's with the Hallicrafters Panoramic because you can "see" and "feel" your way over a wide stretch of the radio spectrum. The Panoramic shows not only the received signal but every signal 100 kc. on either side of the received signal... provided visual sweepwidth is set at maximum. By making a wide range of radio signals visible a new dimension is added to the field of radio operating. Listed below are a few of the things Panoramic enables you to do:

1. Spot frequency modulation or parasites on an amplitude modulated signal.
2. Measure percentage of modulation and the quality of the signal being transmitted under all conditions.
3. Read signal strength instantaneously, aiding in quickly adjusting the output stages of the transmitter or the field pattern of directional antennas.

4. Check other frequencies against known standards or the receiver calibrations. Any frequency drift can be spotted immediately.
5. Show where and how much to shift frequency to avoid interference once a QSO is under way.

No modifications are necessary in your receiver in order to connect the Model SP-44. It does not interfere in any way with normal receiver operation. The Skyrider Panoramic may be used with new and old Hallicrafters models or any receiver having an IF between 450 and 420 kc. The Panoramic picture which is presented on the scope screen through a specially processed green filter appears bright and sharp. Easy to read in a normally lighted room. Just four simple operating controls make it easy to handle. Get the help of this valuable "third hand" in opening new ham horizons.

hallicrafters RADIO



S-40A

*— it covers from
540 kc. to 43 Mc.
and is called by hams*

**"ONE OF THE GREATEST RECEIVER
VALUES AVAILABLE"**

THE sensational new S-40A, with the finest performance ever presented in the popular price field is housed in a cabinet of true functional design—a completely new conception of receiver beauty and styling. Full use is made of newly developed materials and techniques. Maximum ventilation is assured by a multitude of tiny openings in the upper section of the cabinet which also impart a smart and pleasing appearance. The entire top of the cabinet opens on a full length piano hinge for complete accessibility. Panel and chassis may be removed from the cabinet as a unit without disturbing any controls or connections. All controls are clearly identified and the normal positions for

standard broadcast reception are marked in red, making it easy for the whole family to use this fine receiver.

The Model S-40A incorporates many circuit refinements and features never before available in this price class. The RF section uses permeability adjusted "micro-set" inductances, identical with those in the more expensive Hallicrafters receivers. Automatic noise limiter, temperature compensated RF oscillator, beat frequency oscillator, separate RF and AF gain controls, three-position tone control, separate electrical bandspread, with inertia flywheel tuning, and many other features make this beautiful new receiver an outstanding value.

AMERICAN NET
\$89⁵⁰

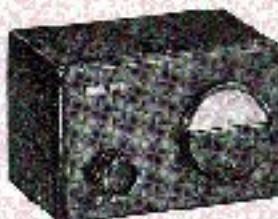


540 ke. to 43 Mc.

Many circuit refinements never before available in this price class.

1. Overall frequency range—540 kilocycles to 43 megacycles in 7 bands.
Band 1—540 to 1200 kilocycles.
Band 2—1.5 to 5.35 megacycles.
Band 3—1.5 to 15.7 megacycles.
Band 4—15.7 to 43 megacycles.
Adequate overlap is provided at the ends of all bands.
2. Wide vision main tuning dial accurately calibrated.
3. Separate electrical bandspread dial, inertia flywheel tuning.
4. Best frequency oscillator, pitch adjustable from front panel.
5. CW/AM switch.
6. Standby/receive switch.

Underwriters Approved



**Model SM-40
"S" Meter**

This new external "S" meter is available as an accessory and can be easily connected through a special socket on the rear of the receiver chassis. May also be used with other Hallicrafters models such as the S-20R, S-18, etc.

<ul style="list-style-type: none"> ★ 540 to 1700 kc. ★ 1.7 to 5.35 Mc. 	<ul style="list-style-type: none"> ★ 5.35 to 15.7 Mc. ★ 15.7 to 43 Mc.
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7. Automatic noise limiter.
8. Maximum audio output—2½ watts.
9. External PV dynamic speaker held in rubber shock mounts.
10. Red markings for broadcast reception simplify operation for general use.
11. Corrections for modulated operation with Hallcrafters transmitters.
12. Separate SENSITIVITY (RE) and VOLUME (AVC) gain controls.
13. Three-position tone control.
14. Special socket permits use of external auxiliary power supply.
15. High frequency oscillator temperature compensated to reduce drift.
16. "M" cross-set" permeability-adjusted coils in RF section.
17. AVC switch.
18. Exceptional accessibility of all parts due to new cabinet design.
19. Socket for connection of Model SM-40 "S" meter.

CONTROLS: SENSITIVITY (including "S" meter on/off switch), BAND SELECTOR, VOLUME, TUNING, BAND SPREAD, AVC ON/OFF, CW/AM, NOISE LIMITER ON/OFF, TONE AND OC ON/OFF, PTT/HT CONTROL, STAND-BY/RECEIVE.

EXTERNAL CONNECTIONS: Antenna terminals for double or single wire antenna, line cord and plug, phone jack on panel, special socket, internally shorted by metal plug, for external power supply and standby connection to transmitter. Socket for connection of Model SM-40 external "S" meter.

PHYSICAL CHARACTERISTICS: The Model S-40A is housed in a steel cabinet attractively finished in rich satin black. The entire top section of "milled" steel, swings open on a pivot hinge. Chassis is aluminum plated and can be removed as a unit with the panel without disconnecting any control. External trim is of satin chrome, dials are a light translucent green to prevent glare, and lettering is in light gray and red.

NINE TUBES: 1—NS-1 RF amplifier; 1—tS47 converter; 6SK7 1st IF amplifier; 1—6SK7 2nd IF amplifier; 1—6SO7 2nd detector and 1st audio amplifier; 1—6L6G output audio amplifier; 1—6II6 automatic noise limiter and gas gate; 1—6J3GT local frequency oscillator; 1—3H rectifier.

OPERATING DATA: The standard Model S-40A is designed for use on 115-125 volts, 50 to 60 cycle alternating current. The universal Model S-40U can be used on 112, 130, 150, 220 or 250 volts, 25 to 60 cycle, alternating current. The standard model draws .6 amperes at 115 volts. When used with external battery the heater current is .5 amperes at 6 volts and plate current is 70 milliamperes at 250 volts. If a vibratone is used for plate supply the total current demand for both plate and heaters is 10 amperes at 6 volts.

DIMENSIONS: Model S-40A. Cabinet only, 18½ inches wide by 3½ inches high by 9½ inches deep. Overall, 18½ inches wide by 9 inches high by 11 inches deep. Model SM-40 Meter. Overall, 5½ inches wide by 4 inches high by 4½ inches deep.

WEIGHT: Model S-40A. Receiver only, approximately 28 pounds. Packed for shipment, approximately 33 pounds. Model SM-40 Meter only, approximately 1½ pounds. Packed for shipment, approximately 2 pounds.

hallicrafters RADIO

S-38



LOWEST PRICED COMMUNICATIONS RECEIVER



Amateur Radio

\$47.50

THE Model S-38 meets the demand for a truly competent communications receiver in the low-price field. Styled in the post-war Hallicrafters pattern and incorporating many of the features found in its more expensive brothers, the S-38 offers performance and appearance far above anything heretofore available in its class. Four tuning bands, CW pitch control adjustable from the front panel, automatic noise limiter, self-contained PM dynamic speaker and "Aircized" steel grille, all mark the S-38 as the new leader among inexpensive communications receivers.

The S-38 is an especially fine receiver for younger people just beginning to find the uncoding fascination offered by radio as a hobby. In addition to being a good standby receiver for any amateur, the S-38 has unlimited uses. Its compact



Goes Anywhere - Everywhere ... A REAL BUY

functional design, its high performance on both short waves and standard broadcast reception make it an ideal receiver for use in den or library, in college dormitory, at camp or cottage or in any room around the house wherever a good extra receiver at a low cost is desired.

FEATURES

1. Overall frequency range—540 kilocycles to 32 megacycles in 4 bands:
 - Band 1—5.0 to 16.5 Mc.
 - Band 2—1.65 to 3 Mc.
 - Band 3—5 to 14.5 Mc.
 - Band 4—15.5 to 32 Mc.
- Adequate overlap is provided at the ends of all bands.
2. Main tuning dial accurately calibrated.
3. Separate electrical bandspread dial.
4. Beat frequency oscillator, pitch adjustable from front panel.
5. AM/CW switch. Also turns on automatic volume control in AM position.
6. Standby/inactive switch.
7. Automatic noise limiter.
8. Maximum audio output—1.6 watts.
9. Internal PM dynamic speaker mounted in top.
10. Controls arranged for maximum ease of operation.
11. 105-125 volt AC/DC. Rectifier line cord for 210-250 volt operation available.
12. Speaker/phones switch.

CONTROLS: SPEAKER/PHONES, AM/CW, NOISE LIMITER, TUNING, CW PITCH, BAND SELECTOR, VOLUME, BANDSPREAD, RECEIVE/STANDBY.

EXTERNAL CONNECTIONS: Antenna terminals for doublet or single wire antenna. Ground terminal incl. Tip jacks for head phones. Line cord and plug.

PHYSICAL CHARACTERISTICS: The Model S-33 is housed in a sturdy steel cabinet finished in rich satin black. Speaker grills in top is of aluminum sheet. Chassis is chromium plated. Lettering is in light gray and switch knobs are red.

SIX TUBES: 1—12SY7 converter; 1—12SK7 IF and local — 12SQ7 second detector, 5V4 first audio amplifier; 1—12SW7 local frequency oscillator, automatic noise limiter; 1—6SL6GT second audio amplifier; 1—45Z5GT rectifier.

OPERATING DATA: The Model S-33 is designed to operate on 105-125 volts AC or DC. A special external resistance line cord can be supplied for operation on 210 to 250 volts AC or DC. Power consumption on 117 volts is 27 watts.

DIMENSIONS: Model S-33. Cabinet only, 12½ inches wide by 6½ inches high by 7½ inches deep. Overall, 12¾ inches wide by 7½ inches high by 8½ inches deep.

WEIGHT: Model S-33. Receiver only, 11 pounds. Packaged for shipment, 14½ pounds.

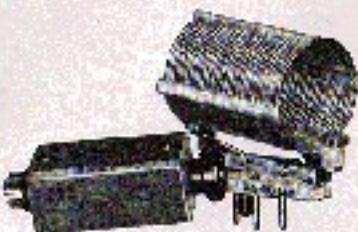
hallicrafters RADIO

FIRST
of its kind

... a low power,
high quality,
low price TRANSMITTER

HT-17

Prices are suggested. Available after July 1st.



FEATURES

- Frequency range— amateur bands from 2.5 to 30 megacycles.
- Power output 10 watts minimum on all bands.
- Direction matching network plus coupling link permits use with any antenna.
- May be easily coupled to drive a high power final amplifier.
- "Aerodized" steel top for maximum ventilation.
- Full length piano hinge permits entire top to swing open for ease in changing coils and crystals.
- All operating and tuning controls easily accessible.
- Self-contained power supply for 105-125 volt 50-60 cycle AC operation.
- Special socket for use of external auxiliary power supply.
- Oscillator circuit automatically switched to Tritet on those higher bands.
- Full output at highest frequency with 7 megacyl. crystal.
- Terminals for connection of external modulator.
- Panel switch to connect tuning pilot lamp in exciter or amplifier circuit.
- New styling harmonies with Hallicrafters postwar receivers.
- Plug-in provision for M-2 plate milliamperemeter.

CONTROLS: PLATE, LOADING, TRANSMIT/STANDBY, METER OSC/TWR AMP, AC ON/OFF (full on front panel). Oscillator plate tuning, Tritet tuning (easily accessible by raising top).

EXTERNAL CONNECTIONS: Antenna terminals for single wire, using piwet or network tuning, or two-wire low impedance line, using link coupling. Ground terminal. Connections for key and external modulator, AC line cord and plug. Special socket for use with external power supply, if used.

PHYSICAL CHARACTERISTICS: The Model HT-17 is enclosed in a sturdy steel cabinet with all operating components mounted on a strong cadmium plated chassis. Top is of "Aerodized" steel and opens on a full length piano hinge for maximum accessibility. Dial face of the slide rule type. Finish is rich satin black. Trim and lettering to match the new Hallicrafters receivers.

THREE TUBES: 1—6V6GT crystal oscillator; 1—507 power amplifier; 1—5U4G rectifier.

OPERATING DATA: The Model HT-17 is designed for operation on 105-125 volt 50-60 cycle alternating current. Connections are provided for use with external batteries or other emergency power source. When operated on 117 volts the total current is 1.67 amperes. Heater current needed for maximum power supply operation is 1.35 amperes at 6 volts, plate current is 1.55 milliamperes at 600 volts. Total demand when used with a six volt space or six volt battery is 38 milliamperes.

DIMENSIONS: Model HT-17. Cabinet only, 12½ inches wide by 5½ inches high by 1½ inches deep. Overall, 13½ inches wide by 5½ inches high by 3½ inches deep.

WEIGHT: Model HT-17. Transmitter only 21 pounds. Packed for shipment 25 pounds. Coils packed for shipment per set, approximately 1½ pounds.

SM-2 plate milliamperemeter over. Range 0 to 150 ma. Supplied for quick installation in HT-17 transmitter in place of tuning pilot lamp, at extra cost.



Low Cost Ham Shack WITH THE HT-17 AND THE S-38

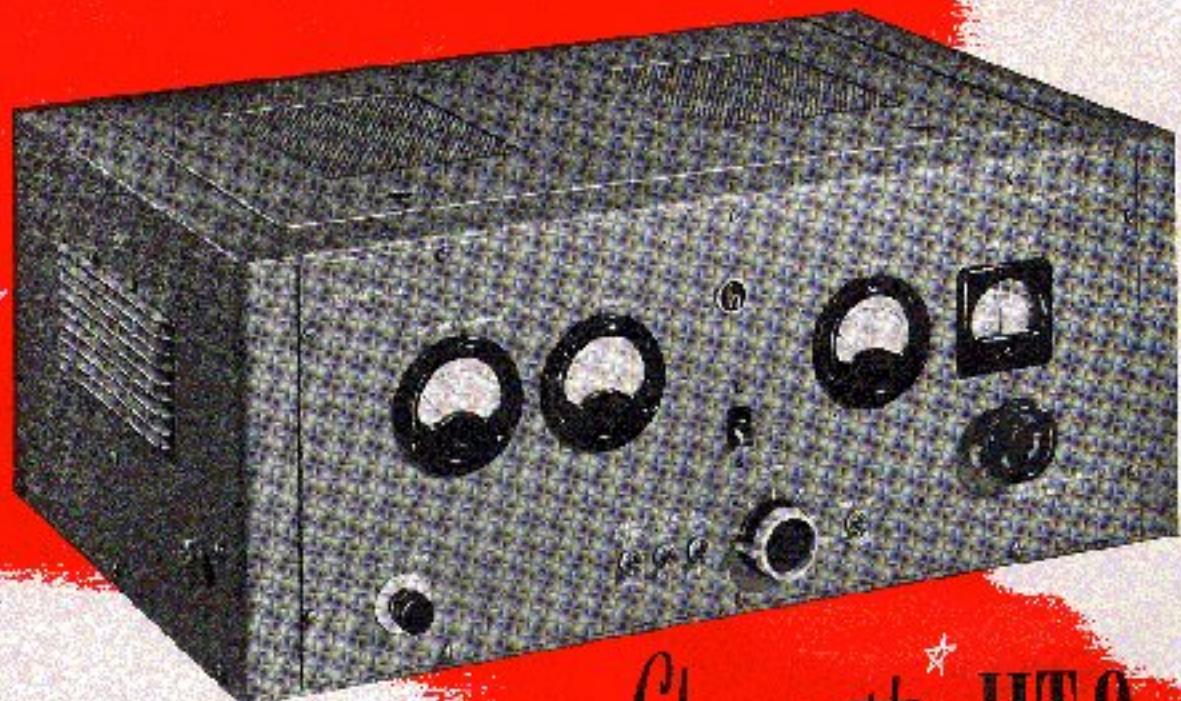
THIE Model HT-17 offers real Hallicrafters transmitter performance with maximum convenience and economy. No larger than a small receiver and styled to match the postwar Hallicrafters line, this new transmitter provides an honest ten watts of crystal-controlled CW output on the amateur 3.5, 7, 14, 21, and 28 megacycle bands.

A pi-section matching network is an integral part of the plate circuit and, together with an adjustable link, provides coupling to any type of antenna or permits the HT-17 to be used as an exciter for a high power final amplifier. The oscillator stage uses a type 6V6-GT tube and is automatically switched to a Tritet circuit when coils for the three higher bands are plugged in. Full output on the 14, 21, and 28 megacycle bands is obtained with 7 megacycle crystals. A type 307 tube is used in the final amplifier, and the self-contained power supply, for 105-125 volt AC operation, employs a 5U4-G rectifier. Connections are provided for an external modulator. The "Airodized" steel top opens on a full length piano hinge for maximum accessibility and ease in changing

coils and crystals. A pilot lamp is provided on the front panel for tuning. Coil sets extra.

IMPORTANT: You must remember that all radio transmission in the United States, its territories and possessions is under control of the Federal Communications Commission. Any unauthorized or illegal operation of a radio transmitter is punishable by fine, imprisonment or both. You **must** have a license, granted by the FCC after a series of tests, to transmit. For further information about the fascinating hobby of amateur radio and to learn about license requirements, ask your Hallicrafters distributor for a copy of "How to Become a Radio Amateur" or write directly to the publishers, The American Radio Relay League, Hartford, Connecticut.

hallicrafters RADIO



FOR POWER 100 WATTS

TRANSMITTER

FOR PRICE \$350.00

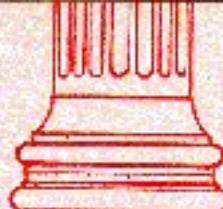
Amateur Net
fuses, coils
and crystals

HALLICRAFTERS Model HT-9 is an ideal medium power transmitter. Designed for maximum flexibility and convenience, it is completely self-contained, requiring only a microphone or key, antenna, and source of AC power to go on the air.

Five individual plug-in tuning units and crystals may be accommodated in the exciter section simultaneously. Band switching is easily accomplished by changing one coil in the final amplifier and selecting the desired exciter frequency

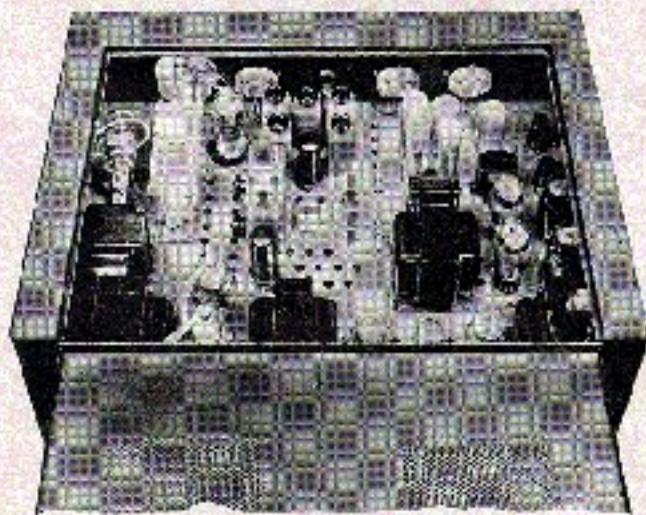
by means of a panel switch. Exciter units are pre-tuned and the only additional operation needed is a slight adjustment of the final tank tuning capacitor.

Separate meters are provided for the power amplifier plate and grid circuits and a third meter may be switched into either the exciter or modulator cathode circuits. All controls are conveniently arranged on the panel and a safety interlock switch is provided for protection against accidental shock when the cabinet is opened.



FEATURES

1. Frequency range 1500 kilocycles to 16 megacycles and amateur 28 megacycle band.
2. Power output, 100 watts on CW, 75 watts on phone.
3. Antenna coil will match any resistive load from 10 to 600 ohms.
4. Maximum ventilation provided by louvers on sides, cutouts at rear.
5. Hinged top permits access to interior for changing coils and crystals.
6. All operating controls on front panel.
7. Self-contained power supply for 105-125 volts, 50/60 cycle AC operation.
8. Input for any medium level high impedance microphone.
9. Metering of cathode current of exciter or modulator, power amplifier grid and power amplifier plate.
10. 100% modulation with low distortion.
11. Carrier hum more than 40 db. below 100% modulation.
12. Frequency response flat within 3 db. from 100 to 5000 cycles.
13. Free operating frequencies may be preset in the oscillator and buffer doubler stages and selected at will by means of the band switch.
14. Line fuses mounted on rear of chassis.
15. Convenient table mounting.
16. Rugged construction and oversize components assure dependable operation.
17. Built-in harmonic suppressor.



CONTROLS: AUDIO GAIN, SPEECH AMPLIFIER OFF/ON, CATHODE CURRENT EXC., MOD, PLATE PWR. ON/OFF, FIL. PWR. ON/OFF, C.W./PHONE, BAND SWITCH, TRANSMIT/STANDBY, PLATE TUNING.

METERS: Cathode Current, P.A. Grid, P.A. Plate.

EXTERNAL CONNECTIONS: Antenna terminals, Terminal strip for key, antenna relay, and remote control of receiver, Line cord and plug, Two line fuses, Microphone input connector (on left end of cabinet). All connections except microphone are located on rear of chassis.

PHYSICAL CHARACTERISTICS: The Model HT-9 is constructed on a heavy cadmium plated steel chassis. Cabinet is of steel finished in gray enamel and is provided with heavy rubber mounting feet. Ventilating openings in top and sides assure adequate cooling. Interlock switch under lid cuts high voltage supply when cabinet is opened.

TUNING UNITS: Final amplifier coils and exciter tuning unit are available for the 1.75, 3.5, 7, 14, and 20 Mc. amateur bands. General coverage coils may be obtained on special order.

FOURTEEN TUBES: 1—6L6 crystal oscillator (used above 3 Mc. only); 1—6L6 crystal oscillator or doubler; 1—6J4 final RF amplifier; 1—6S17 1st speech amplifier; 1—6J5 2nd speech amplifier; 1—5L6 push-pull parallel modulator stage; 2—5Z3 rectifiers; 1—30 rectifier; 2—366 rectifiers.

OPERATING DATA: The model HT-9 is designed for operation on 105-125 volts, 50/60 cycle alternating current. In normal operation it draws approximately 3.5 amperes.

DIMENSIONS: Model HT-9 overall dimensions: 20½ inches wide by 12½ inches high by 20½ inches deep.

WEIGHT: Model HT-9 transmitter, 120 pounds. Packed for shipment, 125 pounds.

hallicrafters RADIO

Modernize YOUR OLD TRANSMITTER



New Variable Master Oscillator ...the Model

HT-18

HERE is the hottest transmitter item available today! Narrow band FM and calibrated 5-band V.F.O. complete in one compact cabinet with all coils and power supply built in. These outstanding features have never before been available in one low-priced unit, including low frequency drift, low FM distortion, low hum and noise level, excellent keying, voltage regulators, and low impedance output circuit.

This is the unit you have been waiting for to modernize your old transmitter, whether it is a 50-watt or a one-kilowatt station.

The HT-18 is also a valuable tool for antenna tuning on all ham bands. Run a quick response curve of the antenna to find the best operating frequency.

Do you have B.C.I. trouble? Simple: just add an HT-18 on narrow band FM and watch the neighbors smile and say "Hello" again.

PRICES ON REQUEST
Sets available after August



- ★ Directly calibrated for easy operation**
- ★ Incorporates narrow band FM**
- ★ As easy to tune as a modern receiver**
- ★ Excellent stability**
- ★ Good clean keying**

FEATURES

1. Frequency range: Output 3.5-4.0 Mc., 5.8-7.425 Mc., 14.0 to 14.4 Mc., 21.0-21.5 Mc., and 27.135 to 29.7 Mc.
2. Dial Calibration: Seven ranges. In addition to above, 13.6-14.8 Mc. and 20.5-22.0 Mc. for harmonic operation from 7 Mc. range.
3. Narrow band FM on all ranges.
4. Five selections of FM deviation. Calibrated by bands.
5. Built-in preamplifier for high impedance crystal or dynamic microphones.
6. Oscillator keyed for C.W. use.
7. Three built-in crystal sockets for spot frequency operation.
8. Scientific temperature compensation insures negligible drift.
9. Two voltage regulators.
10. Complete band switching with built-in coils.
11. Oscillator operates on 3.5 to 4.0 Mc. at all times.
12. Built-in circuit for control of transmitter or receiver.
13. Output amplifier on 3.5 Mc. band operation; frequency multiplier on higher bands.
14. Deviation ratio 0.4 (at 3000 C.P.S. audio input) or +1200 C.P.S. on all frequencies with proper setting of deviation switch.
15. FM audio distortion measured on AM receiver under 5%. Less on FM receivers.
16. Audio frequency response (FM) essentially flat from 100 to 5000 C.P.S.
17. Hum and noise (FM) better than 60 db. below equivalent 100% AM modulated signal.
18. Power output not less than $2\frac{1}{2}$ watts at 29 Mc. increasing to not less than $4\frac{1}{2}$ watts at 3.5 Mc.
19. Switch provided to operate HT-10 for beating against incoming signals.

CONTROLS: TUNING, BAND SELECTOR, OPERATION, DEVIATION, POWER ON/OFF, PLATE ON/OFF, CHECK ON/OFF.

EXTERNAL CONNECTIONS: Microphone socket, RF output terminals, Key terminals, Control circuit terminals, A.C. power cord.

PHYSICAL CHARACTERISTICS: The cabinet of the Model HT-10 is styled to match the new Hallicrafters models and is finished in rich satin black. Airodized steel top swings open on a full length piano hinge for maximum accessibility. Panel lettering is light gray and dial scale is green indirectly illuminated.

SEVEN TUBES: 1—9BA6 electron-coupled oscillator or crystal oscillator; 1—6BA6 frequency modulator; 1—6BA6 audio amplifier; 1—6L6 output amplifier; 1—VR105 voltage regulator; 1—VR150 voltage regulator; 1—5Y3GT/C power rectifier.

OPERATING DATA: The Model HT-10 is designed for operation on 115-125 volts 50/60 cycle, alternating current. Crystals, used if desired, are in the 3.5 megacycle band but are not supplied with unit.

DIMENSIONS: Model HT-10 overall clearance: 12 $\frac{1}{4}$ wide, 7 high, 7 $\frac{1}{2}$ deep.

WEIGHT: Model HT-10 packed for shipment—25 lbs.

hallicrafters RADIO

VHF

Precision instruments for
VERY HIGH FREQUENCY WORK



THE Model S-37 has been designed to fill the need for very high frequency equipment with the performance characteristics of Hallicrafters top communications receivers, and a frequency range extending above 200 Mc. Basically similar to the Model

S-37

\$59175

Amateur Net

S-36A, this new receiver incorporates the latest developments in VHF circuit design and provides sensitivity and selectivity in the range from 36 to 210 Mc. that is in every way comparable to the performance of fine communications receivers on the standard frequencies.

A new pre-loaded gear drive with separate band-spread dial provides ease of tuning, and the entire range of the receiver is covered without band-switching. Two RF stages are used and in conjunction with an intermediate frequency of 16 Mc. assure an amazingly high ratio of image rejection. Hermetically sealed transformers and capacitors make the Model S-37 suitable for use in any climate.

This new receiver again emphasizes Hallicrafters pre-eminence in the commercial production of VHF equipment.

S-36A

*Outstanding on 4 counts . . .
sensitivity, stability, high
fidelity, VHF versatility*

THE Hallicrafters AM/FM/CW receiver, Model S-36A, is designed for maximum performance on the very high frequencies. Using acorn tubes in the RF amplifier, first detector, and high frequency oscillator circuits, the S-36A provides continuous frequency coverage from 27.3 to 143 megacycles. Either a limiter and discriminator for FM or a third IF amplifier, diode detector and noise limiter for AM may be switched into the circuit from the front panel. A



beat frequency oscillator is provided for the reception of CW telegraph signals. The S-36A incorporates a new eight-watt audio system with a response curve which is essentially flat from 40 to 15,000 cycles. All components are of the highest quality and the entire receiver is designed for service in any climate. Combining FM, AM and CW telegraph reception in one superbly engineered unit, the S-36A provides the utmost in very high frequency reception.

\$30750

Amateur Net



S-47

15 TUBE AM-FM RECEIVER FOR SPECIALIZED INSTALLATIONS

A superb radio chassis with push button tuning

HERE is a brand new kind of receiving instrument designed by Hallicrafters to fill a long felt need. It is a 14 tube plus rectifier AM and FM receiver with an overall frequency range of 535 kc. to 108 Mc. in three bands with five positions on the band switch. A new development is the addition of push button controls for FM tuning. There are push button controls for the AM tuning also. This is a high precision, fine quality receiver that will have numerous applications in homes, schools or public institutions or in any location where a good specialized radio installation is needed. Styled to match the new Hallicrafters line, the S-47 receiver lends itself perfectly to "custom" installations of your own choosing—such as in specially designed cabinets in bookcases or built-in sound systems for fine homes. Here is radio that is all radio, made simple to operate with the push button controls and the wise, easily read dial.

FEATURES

- Overall frequency range—535 kc. to 108 Mc. in 3 bands; 15 positions on band switch.
- Band 1—535 to 120 kc. Band 2a—5.1 to 12.0 Mc.
" " " " " Band 2b—15.0 to 18.0 Mc.
" " " " "
- Band 2—5.9 to 18.2 Mc. Band 3—88 to 100 Mc.
(Bands 2a and 2b provide widespread tuning for foreign reception.)
- Wide vision scale dial, accurately calibrated.
- Separate AM and FM tuning controls.
- Five push buttons for AM tuning and five push buttons for FM tuning.
- Automatic frequency control on FM band for ease and economy of tuning.
- Treble tone and AM selectivity switch.

- Bass tone control and on-off switch combined.
- Push-pull 6V6GT tubes provide 32 watts audio output.
- AM response naturally flat from 30 to 500 CPS. FM from 30 to 5000 CPS.
- Oscillator temperature compensated.
- Phone connection at rear of chassis.
- Dual intermediate frequency transformer, 155 kc. for AM and 10.7 Mc. for FM.
- Underwriters' approved.

CONTROLS: BAND SELECTION AND PHONO SWITCH, AM TUNING, FM TUNING, FIVE AM PUSH BUTTONS, FIVE FM PUSH BUTTONS, VOLUME, TREBLE TONE AND AM SELECTIVITY, BASS TUNE AND POWER ON-OFF.

EXTERNAL CONNECTIONS: Antenna connections for single wire no-dangler AM antenna and doublet FM antenna, AC power cord, Power outlet for phone motor connection, Phone input socket, 501 ohm speaker terminals.

PHYSICAL CHARACTERISTICS: The cabinet of the model S-47 is styled in the new "Lillianaire" pattern and is finished in rich satin lube. The chassis is attached to the panel so the receiver assembly may be easily removed from the cabinet for radio rack installation. The "Aerodized" steel top of the cabinet swings open on a full length piano hinge for maximum accessibility.

TUBES: 1—6BA6 RF amplifier; 1—6J6 RF oscillator and automatic frequency control; 1—4114B mixer; 3—6SQ7 IF amplifiers; 1—6SH7 LF amplifier; AM detector; 1—6AL5 FM detector; 1—6J5 audio amplifier; 1—6J8 base amplifier; 1—6SQ7 audio amplifier; 1—6SQ7 phase inverter; 2—6V6GT power amplifiers; 1—5U4G rectifier.

OPERATING DATA: The Model S-47 receiver is designed for operation on 115-125 volts 50/60 cycle alternating current. The power drain is 100 watts. It may be used with any speaker having 500,000 ohm taper.

hallicrafters RADIO

GATTI-HALLICRAFTERS EXPEDITION TO THE MOUNTAINS OF THE MOON

The Hallicrafters Co. is sponsoring a mobile, radio equipped expedition to the Mountains of the Moon in Africa. Commander of the expedition is Atilio Gatti, famed explorer, traveler and author. The expedition will use Hallicrafters built equipment, advanced developments of units like the globe covering SCR 291's and 339's. Short wave broadcasts to all the world will be maintained on a regular schedule during the expedition six months in the field. In addition to the mobile units, Hallicrafters marine and aviation radio telephone will provide radio links in a radio network that will keep the expedition in touch with the outside world. Radio amateurs by the thousands will be in communication with the expedition as it pushes its way up through the Ruwenzori Range in the Belgian Congo. International short wave prefixes like VQB for the Uganda Protectorate; VQK, Kenya Colony; VQS, Tanganyika Territory and VQL, Zanzibar Protectorate will be more universally familiar as the Gatti-Hallicrafters Expedition moves through these remote regions. Out of such practical, scientific research Hallicrafters will continue to develop the world's finest high frequency receivers and transmitters.

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*Guam - halftrack
expedition
1947-1951*

