



KAHN RESEARCH LABORATORIES, INC.
81 SOUTH BERGEN PLACE, FREEPORT, N. Y. • FReeport 9-8800

Dual Diversity Sideband Receiver Model DIV/RSSB 61-1A

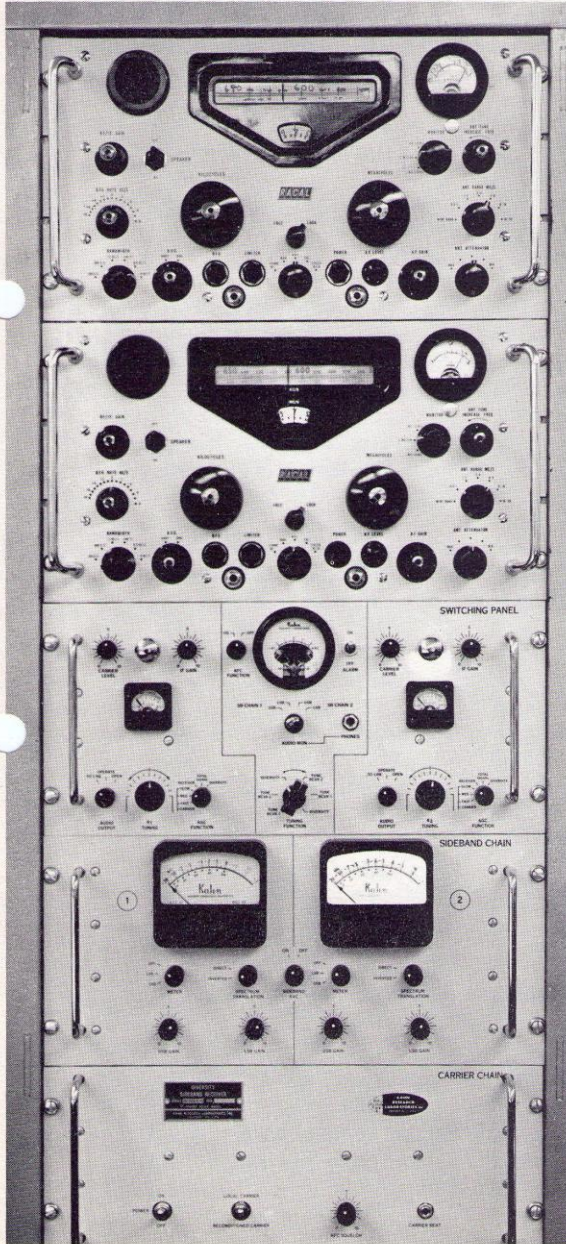
General Description

Kahn Model DIV/RSSB 61-1A Dual Diversity Sideband Receiver introduces to the communications industry a receiver of modern design suitable for point-to-point multi-channel radio-telephone, radio telegraph, or facsimile reception. It provides two independent 6 kc receiving channels and features an all-electronic, automatic frequency control circuit which reduces tuning errors and transmitter drifts of up to ± 2 kc to less than 1 or 2 cycles. Also included is a unique magnetic storage device which insures proper tuning even during severe carrier fade.

The DIV/RSSB 61-1A Receiver is designed for rapid frequency changes and incorporated into the equipment is a novel lighting arrangement whereby only the RF tuner to be tuned will have its associated front panel meters strongly illuminated. For example, in the accompanying photograph the main tuning switch is in the TUNED RECEIVER 2 position and you will notice that the righthand side of the switching panel, the sideband chain panel, and the RF tuner 2 (second from top) are strongly illuminated.

This overall arrangement eliminates operating errors as well as making it possible for one receiver to carry traffic while the other is being tuned to a new frequency.

Transistors and Nuvistors have been used wherever practical in order to reduce power consumption as well as to insure longer trouble-free operation. The RF tuners are of excellent quality, combining high stability, accurate tuning and low noise characteristics.



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Specifications for
KAHN DUAL DIVERSITY INDEPENDENT SIDEBAND RECEIVER
Model DIV/RSSB 61-1A

- Reception Modes.....Independent upper and lower sideband reception of reduced carrier independent sideband signals or double-sideband AM or narrowband phase modulation signals. Four audio outputs are provided, an upper and lower sideband for each of the two sideband receivers.
- Frequency Range.....1 - 30 mc/s. Range extends to 0.5 mc/s with slight degradation of performance.
- AFC Stability.....Corrects ± 1 kc transmitter and receiver drifts or Doppler errors to within approximately 1 cycle.
- Sensitivity.....For an amplitude modulated wave 30% modulated in an IF bandwidth of 6 kc, 2 microvolts are required for a 6 db output signal-to-noise ratio.
- Audio Response..... ± 2 db from 150 to 6,000 cycles in each of two independent sideband receiving channels provided.
- Carrier Loss Protection.....A special magnetic memory device protects carrier loss and thus maintains tuning during severe fades or circuit failures.
- Output Level.....+20 dbm from each channel.
- Hum Level.....-50 db relative to rated power output.
- Automatic Gain Control.....An increase in signal level of 60 db above 10 uV increases the AF output by less than 6 db.
- Tuning.....Film scale with 2 kc calibration marks.
- Power Supply Voltage.....115 volts 50/60 cycles.
- Image and Spurious Response..External image signals are at least 60 db down.
- Dimensions.....Total vertical height no more than 43-3/4" (111.1 centimeters); width 19" (48.25 centimeters); depth 20-1/8" (51 centimeters).

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