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BI-MODE SSB AM HF RECEIVER

Model RBI



Features

- Automatic mode switching between SSB (A3J) and AM (A3) or CSSB (A3H)
- Remote control operation
- Completely transistorized
- Plug-in modular construction for ease of maintenance
- Range: 2 – 22 MHz
- Many options available including, true signal-to-noise squelch allowing full sensitivity false alarm free performance.

Description

This patented receiver has the ability to automatically receive different modes of HF signals, thus satisfying an important operational requirement with the least demand on personnel.

When an SSB suppressed carrier signal is received, product detection using a highly selective sideband filter is used. When AM or CSSB is received, the receiver automatically switches to envelope demodulation. Thus, the Bi-Mode receiver can be used in aircraft and marine service as well as other services where both SSB and AM signals must be received and when manual mode switching is impractical.

As an option a special squelch circuit can be supplied which is insensitive to noise and therefore allows the receiver to operate at maximum sensitivity.

Dual gate FET, integrated circuits and other modern semi-conductor devices are used. Modular plug-in boards loaded from the front panel greatly simplify maintenance. Remote control circuitry is provided.

Also available is a very high selectivity RF crystal filter which may be connected between the antenna connector and the first RF stage. With this filter installed, overload, cross-talk, and image characteristics are outstanding. Also available, is a built-in test generator for remotely testing receiver performance.



KAHN RESEARCH LABORATORIES, INC.
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Innovations in broadcasting and communications since 1952.

SPECIFICATIONS

Model RBI

Modes of Operation	Receives conventional AM (A3) AME (A3H) CSSB and suppressed carrier signals (A3J)*
Bi-Mode Operation	Patented circuit automatically switches between AM and SSB reception.
Sensitivity	AM 3 μ v for 10 db S+N/N SSB .7 μ v for 10 db S+N/N
Frequency Range	Single channel reception 2 to 22 MHz.
AGC	Output level varies less than 6 db for a variation of 5 to 100,000 μ v and no more than an additional 2 db for signal levels up to 1 volt.
AF Output Level1 watts
Distortion	Total harmonic distortion less than 3%.
RF Input Impedance	50 ohms unbalanced
AF Output Impedance	600 ohms balanced
Squelch	Patented Auto-Select signal-to-noise ratio squelch available. Remote control override incorporated.
Test Signal	Built-in test signal generator which may be controlled locally or remotely is an option.
Construction	Modular and fully transistorized.
Power Supply	117V \pm 10% 50/60 cps
Dimensions	8-3/4" High, 19" Wide, less than 13" Deep.
Weight	Approximately 25 lbs.

Receiver is also available with crystal RF front end filter providing RF Bandwidth of 5 kHz for 3 db and 20 kHz for 40 db.

*For A3A operation write for details regarding another receiver model.

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Kahn Research Laboratories, Inc. reserves the right to make changes in specifications which result in product improvement.