

Model SR-201

VHF RECEIVER



The Astro Communication Laboratory Type SR-201 VHF Receiver consists of two VHF tuning heads covering a frequency range of 30-300 mc in two bands. Both bands are continuously tunable in frequency. The SR-201 Receiver uses all solid state devices as active elements. All operating controls are located on the front panel. All inputs and outputs are located on the rear panel. Two meters, one for tuning and one for signal strength indication, are mounted on the front panel.

SPECIFICATIONS

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| Frequency Tuning Range. | 30-300 mc in two bands Band A: 30-100 mc Band B: 90-300 mc |
| Type of Reception | AM, FM, CW |
| Input Impedance. | 50 ohms nominal |
| Noise Figure | 5.5 db maximum 30-100 mc 7.0 db maximum 100-300 mc |

Courtesy of <http://BlackRadios.terry.org>

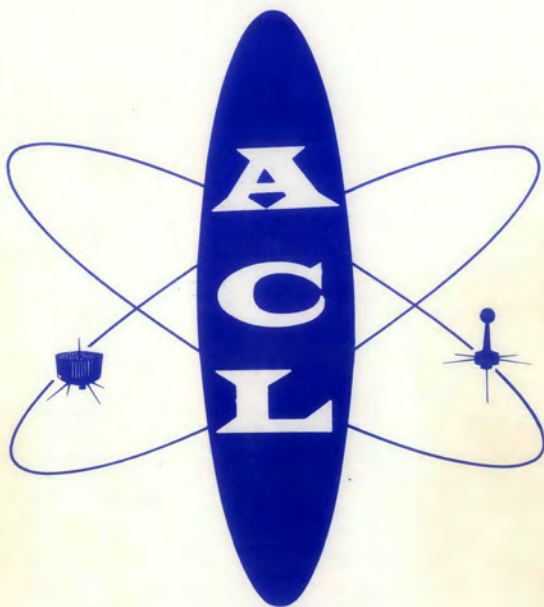
VHF RECEIVER TYPE SR-201

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| Intermediate Frequency | 21.4 mc 1.65 mc (20 kc BW only) |
| Intermediate Frequency Rejection | Band A: 56 db minimum below 40 mc 60 db minimum above 40 mc Band B: 80 db minimum |
| Ina ge Rejection | Band A: 60 db minimum Band B: 50 db minimum |
| Oscillator Radiation | 15 uv maximum 30-260 mc 25 uv maximum 260-300 mc |
| Intermediate Frequency Bandwidth | Bandwidth 1-20 kc, 2nd IF centered at 1.65 mc after second conversion Bandwidth 2-300 kc |
| AM Sensitivity | 20 kc bandwidth: 2 uv input, modulated 50% at 1 kc rate, shall produce 17 db S + N/N minimum 300 kc bandwidth: 4 uv input, modulated 50% at 1 kc rate, shall produce 11 db S+N/N minimum |
| FM Sensitivity | 20 kc bandwidth: 2 uv input, modulated at 1 kc rate with 7 kc deviation shall produce 21 db S+N/N minimum 300 kc bandwidth: 4 uv input, modulated at 1 kc rate with 100 kc deviation, shall produce 21 db S+N/N minimum |
| AM Stability. | Output varies less than 6 db for input range of 2 uv to 20, 000 uv |
| FM Stability. | Output varies less than 2 db for input above 1.5 uv |
| Audio Amplifier Re sponse | Less than 3 db variation from 100 cps to 20 kc |

VHF RECEIVER TYPE SR-201

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| Audio Power Output | 100 mw minimum into 600 ohm line load. 10 mw minimum at phone jack |
| Audio Output Impedance | Line output - 600 ohms balanced. Phone jack - 1000 ohms balanced. |
| Video Amplifier Response | Less than 3 db variation from 30 cps to 40 mcs |
| Video Amplifier Output Impedance | 93 ohms, unbalanced, BNC connector |
| Video Amplifier Output Level | 5 v p-p maximum undistorted output into 93 ohm load |
| BFO | Operable only with 20 kc bandwidth BFO Pitch: <u>±</u> 20 kc minimum |
| Weight. | Approximately 25 pounds |
| Dimensions | 3-1/2" H x 16-7/8" W x 15-1/16" D, standard 19" rack mounting |
| Power | Input: 50-400 cps, 115 vac (230 VAC optional) Wattage: 15 watts maximum |
| Finish. | Gray Enamel per MIL-E-15090, Color No. 26329, Federal Standard 595 |

Courtesy of <http://BlackRadios.terryo.org>



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