

## Yaesu FRG-7 Communications Receiver - \$100.00

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This is a vintage receiver from the late 70s and incorporates a very unique design called the Wadley Loop. This design is a triple-conversion superheterodyne system and offers several advantages in terms of performance. The first intermediate frequency is around 55MHz, giving good image rejection. The problems that are inherent in achieving satisfactory frequency stability in the first oscillator "MHz Set", which operates in the VHF band and tunes over a range of some 30MHz (55.5-84.5MHz), are overcome by mixing its output twice so that any errors due to drift are self-canceling.

### \* SPECIFICATIONS

Mode: AM; SSB: (USB, LSB); CW

Frequency range: 0.5MHz-29.9MHz

Sensitivity: SSB/CW better than 0.7uV for 10dB S/N at 30% modulation

Selectivity: 3kHz - 5dB 7kHz-- 50dB

Frequency stability: Within 500Hz during any 30 minutes after warm-up

Input Impedance: 0.5MHz -1-6MHz High Impedance

1-6MHz - 29.9MHz 50-75Ω unbalanced

Output Impedance: 4Ω

Audio Output: More than 2 watts

Power requirements: 100/110/117/200/220/234V AC 50/60Hz or 13.5 d.c. Negative ground

Batteries: Type UM-1 x 8

Dimensions: 340 x 153 x 285mm

Prices

Weight: 7kg without batteries

Physically this receiver is in good to above average condition. **The only part missing is the main tuning knob.** Inspection of the PCBs and surrounding circuitry would indicate that it has never had any prior maintenance.

**The receiver does power on but does not pick up any stations.** It does have some static and the volume control does function. Limited troubleshooting indicates that the first local oscillator and the 1 Mhz Xtal oscillator are both working. However, it appears that the output from the comb generator (harmonics from the 1Mhz oscillator) is not working.

See these videos for info on the FRG-7

<https://www.youtube.com/watch?v=8fhnt8wdo-w>

<https://www.youtube.com/watch?v=JvS9tBWAcIs&t=550s>

I have a completed set of documentation for this receiver which will be provided to the buyer.









