

Radio Frequency Finder

Features

- 7 digit Liquid Crystal Display
- Low power consumption (Average 6 hour battery life)
- Supplied with NiCd pack, AC wall charger, telescopic antenna and interface cable
- Automatically holds and tunes ICOM CI-V or AOR receivers
- Filter prevents display of random noise
- Hold switch to lock display
- Low battery indicator
- Ultra sensitive synchronous detector 16 section bargraph to show RF signal strength
- High speed counter with 1 KHz resolution



Controls

1. Power Switch. This slide switch turns the RF finder on which also initiates a 2 second self-test.
2. Com Switch. This slide switch selects either the ICOM CI-V receivers or the AOR receivers.
3. Filter Switch. Slide the switch to turn the filter on and off.
4. Hold Button. This holds the current display and stops the RF finder from counting.
5. Function Button. This selects the frequency or period. This button has four settings. One each for displaying frequency or period as these are received, and two settings for automatic hold and tune of the first frequency or period found.
6. Calibration. The calibration adjustment opening is located on the front panel of the RF finder. This allows access to the trimmer capacitor that provides about a 10 PPM adjustment range of the time base oscillator. This is not usually necessary but to do so read a signal of a known frequency before adjusting the trimmer for correct frequency display. If you calibrate at 4.1943 MHz or above then the RF finder will be more accurate.

Specification

Frequency range	10 MHz - 3 GHz
Impedance	50 Ohms/1 Meg Ohm
Battery	Internal 4 x AA 600 mAH NiCd pack
Power	9 VDC 300 mA
Case	Stamped aluminum with black anodized finish
Size	80 mm high x 68 mm wide x 31 mm deep
Weight	210 g

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The distance from which you will be able to receive frequencies will depend upon the type and location of the transmitting antenna, transmitter output power and the frequency in use.

Some typical distances are:

Cordless Phone	0,3 m
Cellular Phone	3 - 10 m
VHF Two Way Radio	3 - 15 m
UHF Two Way Radio	3 - 15 m

Input Sensitivity. (50 Ohms)

Max. input	+15 dBm (1,2 Volts)
Sensitivity at 100 MHz	< 0.8 mV
Sensitivity at 300 MHz	< 6 mV
Sensitivity at 1.0 GHz	< 7 mV
Sensitivity at 2.4 GHz	< 100 mV

RF Signal Strength Bargraph

Frequency	Segment	Full Scale
27 MHz	7mV	100 mV
150 MHz	5 mV	90 mV
800 MHz	10 mV	200 mV

Attention! The device is completed with the telescopic antenna which has a working range from 100 MHz up to 460 MHz. For effective operation of the device outside of this range, we recommend to use other types of external antennas.